

WATER PERMIT NO. 8793-3

Name of Applicant: Brookings Municipal Utilities

Address: 525 Western Avenue, Brookings SD 57006

Phone: 605-692-6325

Amount of Water Claimed: 4,500 AF

Total Acres: N/A

Source of Water Supply: Groudwater

Water to be used for: Reserve/Future

County: Brookings

Type of Waste Disposal System:

Location: Approx. 2 miles east of Brookings

PRIORITY Date Received: 08-03-2023

Application/License Fee: \$ 435.00

Corrected Application Received: 08-31-2023

Period of Annual Use: January 1 – December 31

Remarks: Reserving for future development

Diversion Point:

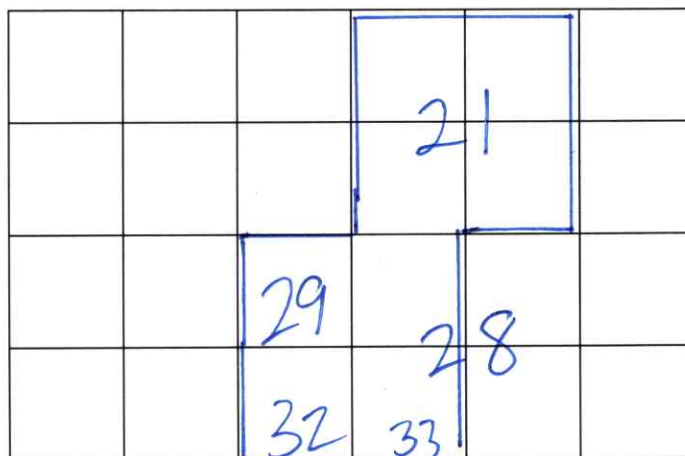
Land to be Irrigated: N/A

Depth of Well:

Well Driller:

Remarks:

Type of Map: aerial



not to scale ☹

Reviewed and the Number Assigned on: 09-01-2023

By: Rachel Rodriguez

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
FUTURE USE PERMIT NO. 8793-3**

Date of first receipt of application August 3, 2023.

Date of return to applicant for corrections, amendments, or changes August 10, 2023.

Date of receipt of corrected application September 1, 2023.

The Chief Engineer, on behalf of the Water Management Board, issues Future Use Permit No. 8793-3 to Brookings Municipal Utilities, c/o Eric Witt, 525 Western Avenue, Brookings SD 57006 subject to the following limitations, conditions and qualifications:

1. Future Use Permit No. 8793-3 appropriates 4,500 acre-feet of water annually from the Big Sioux: Aurora Aquifer. The area to be reserved for future use is all of Section 21, W 1/2 Section 28, SE 1/4 Section 29, E 1/2 Section 32, W 1/2 Section 33; all in T110N-R49W. The water is reserved for the municipal purpose of providing future water supplies to the city of Brookings. This site is located approximately 2 miles east of Brookings SD.
2. The water appropriated shall be used for the purpose of municipal use and may not exceed the amount of water needed for beneficial use.
3. The date of approval of Future Use Permit No. 8793-3 is November 6, 2023.
4. The date from which applicant may claim right is August 3, 2023.
5. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Future Use Permit No. 8793-3 reserves 4,500 acre-feet of water annually from the Big Sioux: Aurora Aquifer.
2. Future Use Permit No. 8793-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board as to accomplishment in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. The future use area approved under this Permit encompasses other wells which obtain water from the same aquifer. Any future water withdrawals from this reservation shall be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate existing wells for other water rights in place at the time an application to construct and place reserved water is filed.
4. At such time as definite plans are made to construct works and put the water reserved by this Permit to beneficial use, specific application for all or any part of the reserved water must be submitted prior to construction of facilities pursuant to SDCL 46-5-38.1.

WATER MANAGEMENT BOARD

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

JAN 08 2024
date



FORM 2: Application for uses other than irrigation
(type or print)

RECEIVED
AUG 03 2023
OFFICE OF
WATER

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8793-3</u> Hydrologic Unit <u>10170202</u>
	Basin <u>Middle Big Sioux</u>
	Newspaper <u>Brookings Register</u>
	(office use only)

Application for Permit to Appropriate Water in 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 _____	

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 Brookings Municipal Utilities

Mailing Address 525 Western Avenue Brookings SD 57006
(Address) (City) (State) (Zip Code)

Phone 605-692-6325 Mobile _____ Email ewitt@swifetl-bmu.com

2. Amount of water claimed _____ *CFS or _____ **GPM and 4,500 ***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 Big Sioux: Aurora

4. Location of point of diversion All of Sec.21, W1/2-Sec. 28, SE1/4-Sec.29, E1/2-Sec.32, _____ County Brookings
W1/2-Sec.33, All in T110N-R49W (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? _____
(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Brookings County

6. Annual period during which water is to be used Year-round Jan - Dec 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)

Reserving supplies for future development of City of Brookings. The attached Figure illustrates the proposed future use area for the Big Sioux: Aurora aquifer unit.

Eric Witt, P.E.
Brookings Municipal Utilities

I, Eric Witt WWW & Engineering Manager, 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.

INVOICE

SD Agriculture and Natural Resources
Water Rights
Attn: Rachel Rodriguez
523 East Capitol Ave.
Pierre SD 57501

DATE: AUGUST 10, 2023
INVOICE

TO Brookings Municipal Utilities
c/o Eric Witt
525 Western Avenue
Brookings SD 57006

SALESPERSON

JOB

PAYMENT TERMS

DUE DATE

Due upon receipt

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	Future Use/No Inspection Fee	\$435.00	\$435.00
1	Application Fee (\$1550.00) plus Inspection Fee (\$200.00)	\$1750.00	\$1750.00
1	Application Fee (\$2650.00) plus Inspection Fee (\$200.00)	\$2850.00	\$2850.00

SUBTOTAL \$5035.00

SALES TAX

TOTAL \$5035.00

Make all checks payable to DANR/Water Rights

RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date August 31, 2023

RECEIVED OF Brookings Municipal c/o Eric Witt 525 Western Avenue Brookings SD 57006

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	\$ _____
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$ _____
Fee to retain Future Use Permit No. <u>8793-3</u> after period of seven years.	\$ <u>435.00</u>
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	\$ _____
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	\$ <u>435.00</u>

By Eric Gronlund
Chief Engineer
zm



525 Western Avenue | PO Box 588
Brookings, SD 57006



415 4th Street | PO Box 588
Brookings, SD 57006

RECEIVED

SEP 25 2023

OFFICE OF
WATER

September 25, 2023

SD DANR, Water Rights
523 E Capital Ave
Pierre, SD 57501-3352

RE: Brookings East Wellfield Application for Future Use Permit

Dear Sirs,

I am writing regarding the Brookings Municipal Utilities (BMU) future use application requesting 4,500 acre feet of groundwater from the Big Sioux Aquifer, Aurora Unit, at our East Wellfield. BMU administers and manages the water utility for the City of Brookings and provides bulk water service to City of Aurora. To address BMU water service area growth and to serve future customers, additional source water will be required for long-term needs.

The most recent Water System Facility Plan estimated a 2019 service population of 25,450 with a predicted growth to serve 35,519 people by 2045. By 2075 our median population estimate for the Brookings-Aurora service area is 55,000 people.

We currently operate two water treatment plants, the North Water Plant (NWP) and East Water Plant (EWP). The NWP was constructed in 1937 and will be abandoned when a new treatment plant under construction is operational in 2025. The new water treatment plant will have an initial treatment capacity of 6.0 million gallons per day (MGD) with an expansion capacity to 10 MGD. The EWP has a capacity of 4.0 MGD and will remain in service. As we move forward with the water treatment system upgrade, both wellfields will be expanded. Per ARSD 74:02:01:24.01, our future use application to reserve 4,500 acre feet is based on two times our annual peak water usage at EWP.

We are completing the municipal well design and anticipate going out to bid in the near future. We have four new wells planned in the East Wellfield so our remaining future use reservation under Future Use Permit No. 1598-3 will be completely developed in the near future.



**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 FUTURE USE WATER PERMIT
APPLICATION NO. 8793-3, Brookings Municipal Utilities**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Future Use Water Permit Application No. 8793-3, Brookings Municipal Utilities, 525 Western Avenue, Brookings SD 57006.

The Chief Engineer is recommending APPROVAL of Application No. 8793-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) Brookings Municipal Utilities has demonstrated a reasonable need for the water reserved, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Future Use Permit No. 8793-3 reserves 4,500 acre-feet of water annually from the Big Sioux Aurora aquifer.
2. Future Use Permit No. 8793-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board as to accomplishment in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. The future use area approved under this Permit encompasses other wells which obtain water from the same aquifer. Any future water withdrawals from this reservation shall be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate existing wells for other water rights in place at the time an application to construct and place reserved water is filed.
4. At such time as definite plans are made to construct works and put the water reserved by this Permit to beneficial use, specific application for all or any part of the reserved water must be submitted prior to construction of facilities pursuant to SDCL 46-5-38.1.

See report on application for additional information.

Eric Gronlund, Chief Engineer
October 18, 2023

NOTE: Approval of Future Use Permit No. 8793-3 does not preclude approval of subsequent appropriations by other persons within the future use area identified on No. 8793-3. Approval of any such appropriations will have a priority date junior to No. 8793-3. However, future siting of wells by Brookings Municipal Utilities to place water to beneficial use within the future use area will be subject to review regarding the likelihood of well interference between Brookings Municipal Utilities wells and wells of other users.

Report to the Chief Engineer
On Future Use Permit Application No. 8793-3

Brookings Municipal Utilities

c/o Eric Witt

October 19, 2023

Future Use Permit Application No. 8793-3 proposes to appropriate and reserve 4,500 acre-feet of water annually from the Big Sioux: Aurora aquifer. The area requested for future well development is Section 21, the W ½ of Section 28, the SE ¼ of Section 29, the E ½ of Section 32, and the W ½ of Section 33; all in T110N-R49W. The water is reserved for the municipal purpose of providing future water supplies for the City of Brookings. This application does not authorize the construction of works or application of water to beneficial use. The site of interest is located in Brookings County approximately two miles east of Brookings, SD.

AQUIFER: Big Sioux: Aurora (BS: A)

HYDROGEOLOGY:

The Big Sioux aquifer is primarily composed of Quaternary-aged meltwater stream and glacial outwash deposits that range from fine to medium, poorly sorted sand to a well-sorted sand and medium gravel and occurs mostly in the floodplains of the Big Sioux River and its major tributaries (Hamilton, 1989). The Big Sioux aquifer is divided into twelve management units that have been historically recognized by the DANR-Water Rights Program and SD Water Management Board (Water Rights, 2023c). The water proposed to be reserved is within the Aurora management unit of the Big Sioux aquifer.

In Brookings County, Hedges and others (1982) estimated the Big Sioux: Aurora aquifer to underly 39,300 acres and contain approximately 165,060 acre-feet of recoverable water in storage. More recent mapping estimates completed by Buhler (2012) estimated the Big Sioux: Aurora aquifer to underly approximately 83,000 acres in Brookings and Moody Counties in South Dakota, and Pipestone and Lincoln Counties in Minnesota. Farmer (2017) made additional revisions to the mapping completed by Buhler (2012) and estimated the Big Sioux: Aurora aquifer to underly approximately 72,485 acres in Brookings and Moody Counties in South Dakota, and Pipestone and Lincoln Counties in Minnesota. The areal extent of the Aurora management unit of the Big Sioux aquifer is likely in the range of the estimates calculated by Buhler (2012) and Farmer (2017). However, there are portions of the Big Sioux: Aurora aquifer mapped by Hamilton (1989) not included in either Buhler (2012) or Farmer's (2017) areal extent estimates. Hamilton's (1989) mapping estimates of the Big Sioux aquifer in Brookings and Kingsbury Counties indicated sections of the aquifer that are buried under glacial till, particularly in the northeastern extreme of the Big Sioux: Aurora aquifer. The available lithologic evidence indicates that the Big Sioux: Aurora aquifer does exist in at least portions of Hamilton's delineation of the aquifer (Hamilton, 1989; SDGS; 2023; Water Rights, 2023d).

There is a groundwater divide in the Big Sioux: Aurora aquifer that exists near Elkton, South Dakota (near the approximate center of T109N-R47W) that can be seen on the potentiometric surface map for the Big Sioux: Aurora aquifer (Hamilton, 1989). The direction of groundwater movement north of the divide flows to the west, and groundwater south of the divide flows to the southwest (Hamilton, 1989). As such, the groundwater divide isolates the flow of the northern portion of the aquifer from the southern portion, essentially creating two sub-units in the Aurora management unit as shown in Figure 1. The proposed future use area for this application (if approved) is to be located in the northern sub-unit of the Big Sioux: Aurora aquifer. For the remainder of this report, the term “Big Sioux: Aurora aquifer” will be referencing the northern sub-unit of the Big Sioux: Aurora aquifer. Farmer (2017) estimated the areal extent of the northern sub-unit of the Big Sioux: Aurora aquifer to be approximately 54,245 acres.

No water well or test hole completion report was submitted with Future Use Permit Application No. 8793-3. Within approximately one mile of the applicant’s proposed future use area, water well and test hole completion reports on file for wells completed into the Big Sioux: Aurora aquifer have saturated thicknesses ranging from approximately 10 to 50 feet, with the depth to the top of aquifer materials ranging from approximately 5 to 15 feet below the ground surface, and static water levels varying between 5 to 15 feet below the ground surface at the time of well completion (SDGS, 2023; Water Rights, 2023b and 2023d). Based on the water well and test hole completion reports on file near the proposed future use area, and the lithologic logs on file for nearby observation wells, the Big Sioux: Aurora aquifer is expected to be unconfined in the proposed future use area (SDGS, 2023; Water Rights, 2023b and 2023d).

South Dakota Codified Law (SDCL) 46-5-38

Brookings Municipal Utilities is an entity that may reserve water for future use pursuant to SDCL 46-5-38(4). An entity that may reserve water for future use must show future need for the water, and unappropriated water must be available for the proposed appropriation pursuant to SDCL 46-2A-10.

Brookings Municipal Utilities indicated that the future use reservation is needed to support increasing water demands and future growth. The applicant has provided justification in Future Use Permit Application No. 8793-3 for the volume of water requested to be reserved as required under Administrative Rule of South Dakota (ARSD) 74:02:04:24.01.

SDCL 46-2A-10

Pursuant to SDCL 46-2A-10, “A reservation for a future use may be approved only if there is a reasonable probability that unappropriated water is available for appropriation, that the quantity of water reserved will be needed by the entity and that the proposed use will be a beneficial use and in the public interest.” This report will address the availability of unappropriated water from the Big Sioux: Aurora aquifer. Though not required, this report will also discuss potential for unlawful impairment of existing domestic water users and water rights within the Big Sioux: Aurora aquifer for the information of the Chief Engineer and Water Management Board.

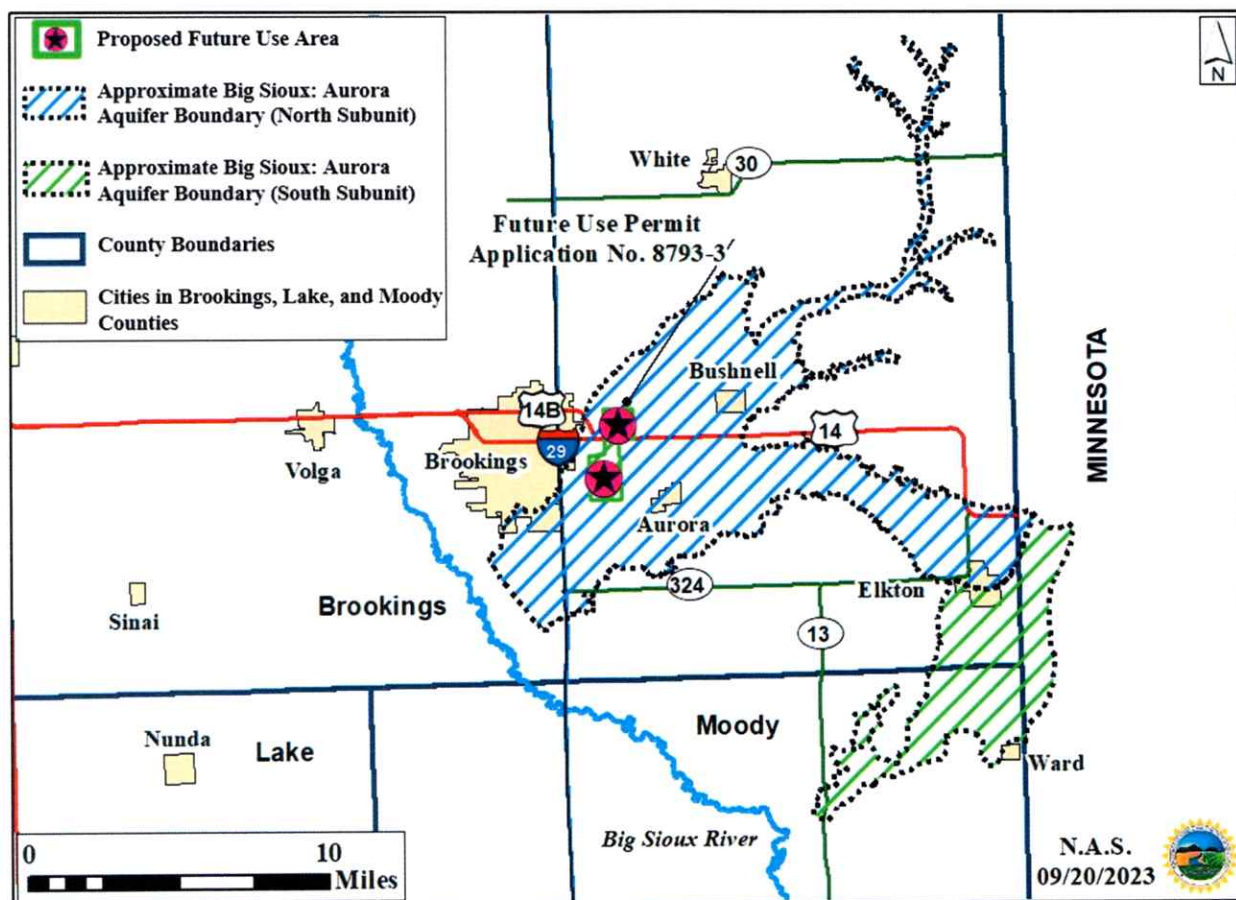


Figure 1. Map of the approximate Big Sioux: Aurora aquifer boundary (modified from Farmer, 2017) and the proposed future use area for Future Use Permit Application No. 8793-3

WATER AVAILABILITY:

Future Use Permit Application No. 8793-3 proposes to appropriate water from the Big Sioux: Aurora aquifer. The probability of unappropriated water being available from the 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. An application may be approved, however, for withdrawals of groundwater from any groundwater formation older than or stratigraphically lower than the greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems.” The Big Sioux: Aurora aquifer is not older than or stratigraphically lower than the Greenhorn Formation (Fahrenbach et al., 2010), while the applicant’s proposed use is for use in a water distribution system as defined by SDCL 46-1-6(17). Therefore, the average annual recharge and average annual withdrawal rates to and from the Big Sioux: Aurora aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Big Sioux: Aurora aquifer is primarily through the infiltration of precipitation and by slow seepage through till, lake deposits and underlying aquifers when the potentiometric surface of the aquifer is lower than the potentiometric surface of either surface or ground water source (Hamilton, 1989).

Using observation well analysis, Hedges and others (1985) estimated a recharge rate of 5.0 inches per year to the Big Sioux: Aurora aquifer. Farmer (2017) estimated the areal extent of the northern sub-unit of the Big Sioux: Aurora aquifer to be approximately 54,245 acres. Therefore, the average annual recharge rate to the northern sub-unit of the Big Sioux: Aurora aquifer is estimated at approximately 22,602 acre-feet per year.

Discharge

Discharge from the Big Sioux: Aurora aquifer is through evapotranspiration, leakage to underlying aquifers and surface water sources when the potentiometric surface of the aquifer is above the potentiometric surface of the surface water source, and well withdrawals (Hamilton, 1989; Water Rights, 2023d). Currently, there are 80 water rights/permits authorized to appropriate water from the Big Sioux: Aurora aquifer and two future use permits reserving water (Water Rights, 2023c). Of those, 59 water rights/permits are located in the northern sub-unit of the Big Sioux: Aurora aquifer and Future Use Permit No. 1598-3 reserves 2,426 acre-feet of water annually from the northern sub-unit of the Big Sioux: Aurora aquifer for the City of Brookings (Water Rights, 2023c).

There are two pending applications filed by Brookings Municipal Utilities for the northern sub-unit of the Big Sioux: Aurora aquifer: Water Permit Application No. 8794-3 proposing to appropriate 1,160 acre-feet annually and Water Permit Application No. 8795-3 proposing to construct and place to beneficial use the balance remaining of reserved water in Future Use Permit No. 1598-3 (Water Rights, 2023c).

Table 1 summarizes the 17 non-irrigation water rights/permits authorized to appropriate water from the northern sub-unit of the Big Sioux: Aurora aquifer with the estimated annual use for each water right/permit as determined by their permitted maximum diversion rate or annual volume. Historically, average water use by non-irrigation appropriations limited by an instantaneous diversion rate have been assumed to be pumping 60% of full time at the respective permitted diversion rate. Water rights/permits limited by an annual volume are assumed to withdraw their entire respective annual volume limitation. This is a standard method used by the DANR-Water Rights Program for estimating annual withdrawals by non-irrigation appropriations from an aquifer and is likely an overestimation of average annual withdrawals (Water Rights, 2023c). Two municipal water rights (Nos. 1952-3 and 4038-3) were identified as being connected to a rural water system and likely maintain their wells for standby purposes (Drinking Water Program, 2023; Water Rights, 2023c); as such, the average annual water use for these water rights has been estimated to be zero acre-feet per year on Table 1. Overall, the

estimated average annual withdrawal rate from the northern sub-unit of the Big Sioux: Aurora aquifer by the non-irrigation water rights/permits (including pending Water Permit Application No. 8794-3) is approximately 12,133 acre-feet per year (Table 1) (Water Rights, 2023c).

Table 1. Summary of the limiting diversion rate or appropriation and estimated use for the non-irrigation water rights/permits for the northern sub-unit of the Big Sioux: Aurora aquifer (Drinking Water Program, 2023; Water Rights, 2023c)

Permit No.	Name	County	Status	Use	Authorized Diversion Rate (cfs)	Authorized Annual Volume (ac-ft/yr)	Estimation Method	Estimated Use (ac-ft/yr)
1952-3	City of Aurora	BG	LC	MUN	0.2		Connected to RWS	0
3979-3	City of Brookings	BG	LC	MUN	6.69		60% Pumping	2,906
4038-3	City of Elkton	BG	LC	MUN	0.72		Connected to RWS	0
4980-3	Brookings-Deuel RWS	BG	LC	RWS	0.89		60% Pumping	386.6
5433-3	Brookings-Deuel RWS	BG	LC	RWS	0.44		60% Pumping	191.1
6048-3	City of Brookings	BG	LC	MUN	2.9	2,100	Volume	2,100
6325-3	Valero Renewable Fuels Company LLC	BG	LC	IND	2.67	1,935	Volume	1,935
6437-3	Crosswind Jersey's Inc	BG	LC	COM	0.056		60% Pumping	24.3
7167-3	Basin Electric Power Cooperative	BG	LC	IND	0.22		60% Pumping	95.6
7182-3	Agfirst Farmers Cooperative	BG	LC	COM	0.35	10	Volume	10
7887-3	Novita Aurora LLC	BG	LC	IND	0.67		60% Pumping	291
8146-3	Brookings Economic Dev Ag Tech Center	BG	LC	IND	0.033	23.9	Volume	23.9
8285-3	Norm's Greenhouse & Nursery LLC	BG	LC	COM	0.1	9.2	Volume	9.2
8379-3	Bobcat Farms RE LLC	BG	LC	COM, LCO	0.1	62	Volume	62
8401-3	LG Everist Inc	BG	LC	IND	11.1	2,210	Volume	2,210
8443-3	Linde Dairy LLC	BG	PE	COM, LCO	0.67	323	Volume	323
8511-3	Bowes Construction Inc	BG	PE	IND	1.67	405	Volume	405
8794-3	Brookings Municipal Utilities	BG	pending	MUN	2.67	1,160	Volume	1,160
Total:								12,133

LC: Licensed Water Right; PE: Water Permit; MUN: Municipal; RWS: Rural Water System; IND: Industrial; COM: Commercial; LCO: Livestock Confinement Facility

There are eight non-irrigation water rights/permits required to report their annual water usage from the Big Sioux: Aurora aquifer each year (Water Rights, 2023c and 2023f). The reported values averaged on Table 2 are for comparison purposes only to show historically the average annual use has been less than the volume that is estimated on Table 1 (Water Rights, 2023c and 2023f). The estimated use for these non-irrigation water rights/permits calculated on Table 1 will be used in the analysis.

Table 2. Non-irrigation water rights/permits required to report their respective annual use from the Big Sioux: Aurora aquifer (Water Rights, 2023c and 2023f)

Permit No.	Name	Status	Use Type	Priority Date	Authorized Diversion Rate (cfs)	Authorized Annual Volume (ac-ft/yr)	Yrs of Reported Use	Avg of Reported Use (ac-ft/yr)
6048-3	City of Brookings	LC	MUN	06/28/1968	2.9	2,100	20	2,016.8
6325-3	Valero Renewable Fuels Company LLC	LC	IND	05/21/2002	2.67	1,935	20	1,150.5
7167-3	Basin Electric Power Cooperative	LC	IND	11/02/2009	0.22		13	18.2
7887-3	Novita Aurora LLC	LC	IND	08/21/2013	0.67		9	137.8
8146-3	Brookings Economic Dev Ag Tech Center	LC	IND	03/26/2015	0.033	23.9	8	14.4
8285-3	Norm's Greenhouse & Nursery LLC	LC	COM	05/15/2017	0.1	9.2	6	9.2
8379-3	Bobcat Farms RE LLC	LC	COM, LCO	11/01/2018	0.1	62	4	16.6
8443-3	Linde Dairy LLC	PE	COM, LCO	08/31/2020	0.67	323	2	60

LC: Licensed Water Right; PE: Water Permit; COM: Commercial; IND: Industrial; MUN: Municipal; LCO: Livestock Confinement Operation

Currently, there are 62 irrigation water rights/permits authorized to appropriate water from the Big Sioux: Aurora aquifer, with 42 of those water rights/permits located in the northern sub-unit (Water Rights, 2023c). Irrigation water rights/permits have been typically required to report their annual usage on an irrigation questionnaire since 1979. The estimated average annual withdrawal rate from the northern sub-unit of the Big Sioux: Aurora aquifer irrigation water rights/permits that have reported over the period of record (1979 to 2022) is approximately 2,181 acre-feet per year (Table 3) (Water Rights, 2023a). To reflect the current development of irrigation water rights/permits more accurately, the average annual withdrawal rate for irrigation appropriations that have reported from 2013 through 2022 is approximately 1,747 acre-feet per year (Table 3) (Water Rights, 2023a). The average annual withdrawal rate over the period of record (1979 to 2022) will be used in this analysis. Table 3 lists 41 water rights/permits as reporting in 2022 as the usage from Water Right 5467A-3 is reported with Water Right No. 7252-3 (McMath, 2020).

There are domestic wells completed into the Big Sioux: Aurora aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2023d). Due to their relatively low diversion rates, withdrawals from domestic wells are generally not considered to be a significant portion of the hydrologic budget. Additionally, with the development of rural water systems in areas where the Big Sioux: Aurora aquifer is the uppermost aquifer available; it is likely some domestic users may have transitioned to rural water. Therefore, the quantity of water withdrawn by domestic wells is estimated to be negligible to the hydrologic budget for the Big Sioux: Aurora aquifer.

Hydrologic Budget Summary

The estimated average annual recharge rate to the Big Sioux: Aurora aquifer is approximately 22,602 acre-feet per year. The estimated average annual withdrawal rate from the northern sub-unit of the Big Sioux: Aurora aquifer plus the proposed future use reservation for this application is approximately 21,240 acre-feet per year (non-irrigation (including pending Water Permit Application No. 8794-3): 12,133 acre-feet/year; irrigation (avg 1979 to 2022): 2,181 acre-feet/year; future use permit reservation (pending Water Permit Application No. 8795-3 to authorize construction and place to use): 2,426 acre-feet/year; Future Use Permit Application No. 8793-3 (if approved, assuming full volume): 4,500 acre-feet/year). Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Big Sioux: Aurora aquifer for the proposed appropriation.

Table 3. Reported historic irrigation use from the northern sub-unit of the Big Sioux: Aurora aquifer (Water Rights, 2023a)

Year	No. of Water Rights/Permits Reporting	Reported Pumpage (acre-feet)
1979	34	1,034.7
1980	34	1,231.3
1981	43	2,607
1982	41	1,405.2
1983	40	1,937.8
1984	41	2,393
1985	44	2,642
1986	46	1,476
1987	47	2,579.7
1988	46	3,959.5
1989	48	3,108.7
1990	39	2,408.5
1991	40	1,299.4
1992	40	660.2
1993	40	208.1
1994	38	1,557.6
1995	35	250.1
1996	35	1,840.1
1997	35	2,863
1998	36	3,318.6
1999	36	2,319.5
2000	36	2,698.1
2001	37	2,812.1
2002	38	2,799.5
2003	37	3,176
2004	35	2,695.6
2005	35	2,312.5
2006	35	2,829.7
2007	35	3,221.4
2008	38	3,732.3
2009	38	3,431.3
2010	39	537
2011	39	2,673.9
2012	39	4,464.9
2013	44	3,972.4
2014	44	2,246.5
2015	44	1,474.8
2016	44	1,264.2
2017	44	1,392.3
2018	44	835.2
2019	43	118.01
2020	43	1,291.7
2021	41	2,836.9
2022	41	2,037.7
Min	34	118
Max	48	4,465
Avg (1979 to 2022)	40	2,181
Avg (2013 to 2022)	43	1,747

OBSERVATION WELL DATA:

ARSD 74:02:05:07 requires that the Water Management Board shall rely upon 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 average annual recharge of the aquifer.

Observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. The DANR-Water Rights Program monitors 15 observation wells completed into the Big Sioux: Aurora aquifer, with 14 completed into the northern sub-unit of the Big Sioux: Aurora aquifer (Water Rights, 2023b). The three closest observation wells to the proposed future use area are BG-79D (located at NW corner of Section 21), BG-77S (located at SW corner of Section 21), and BG-77R (located at SW corner of Section 33) (as shown in Figure 5) (Water Rights, 2023b). The hydrographs for these observation wells are displayed in Figures 2 to 4 (Water Rights, 2023b). The data points utilized to construct the hydrographs are measurements of the static water level in the observation wells from the top of the well casing.

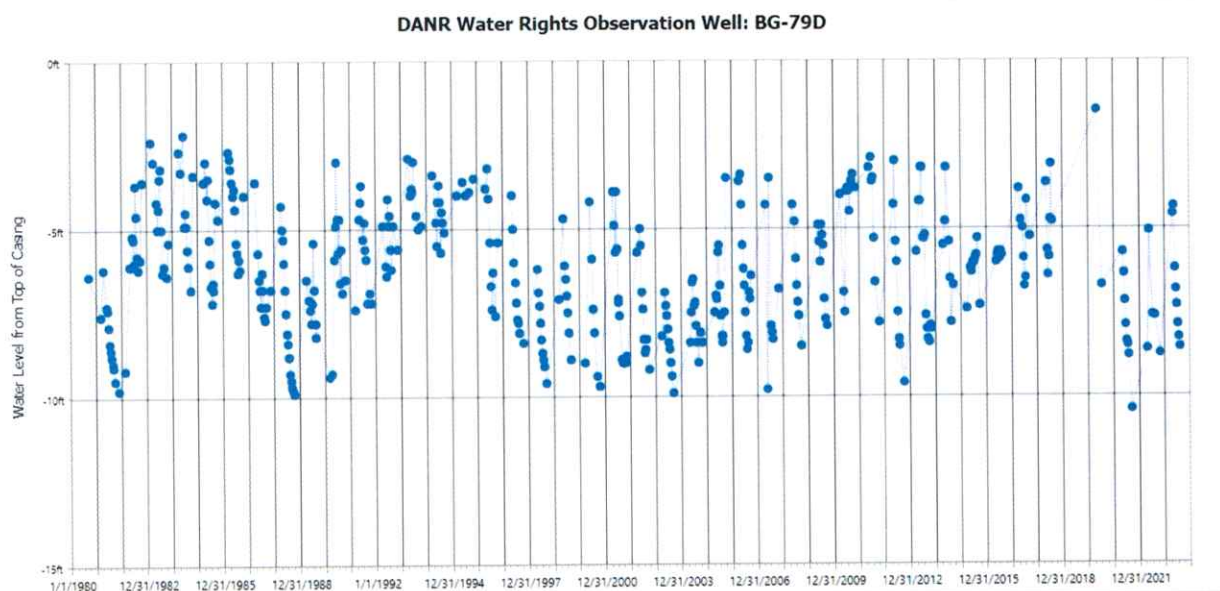


Figure 2. Hydrograph for observation well BG-79D (Water Rights, 2023b)

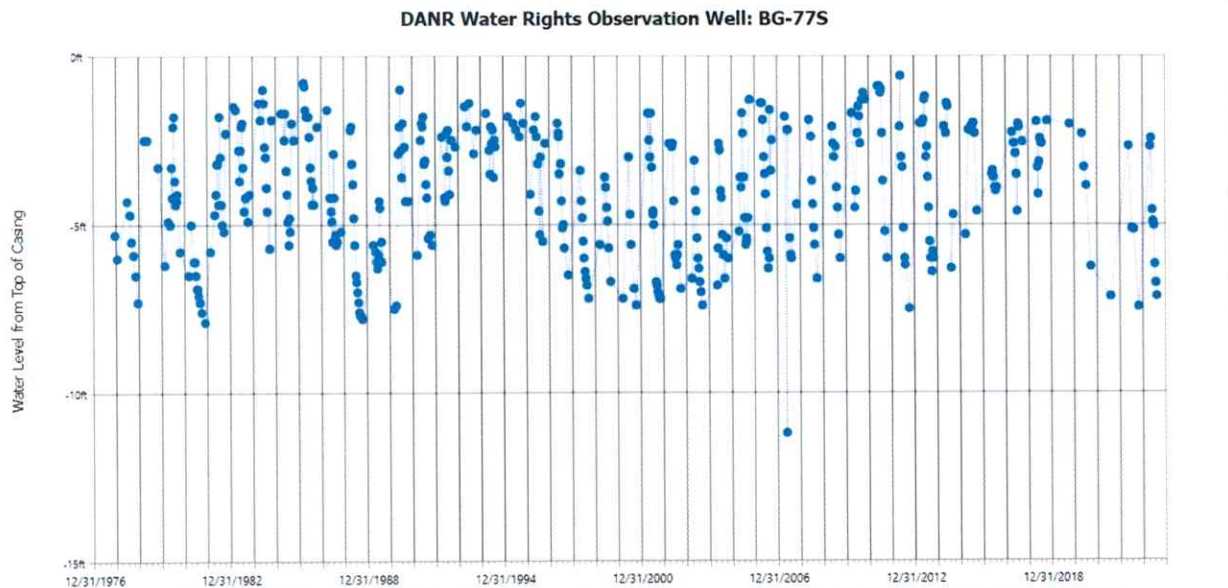


Figure 3. Hydrograph for observation well BG-77S (Water Rights, 2023b)

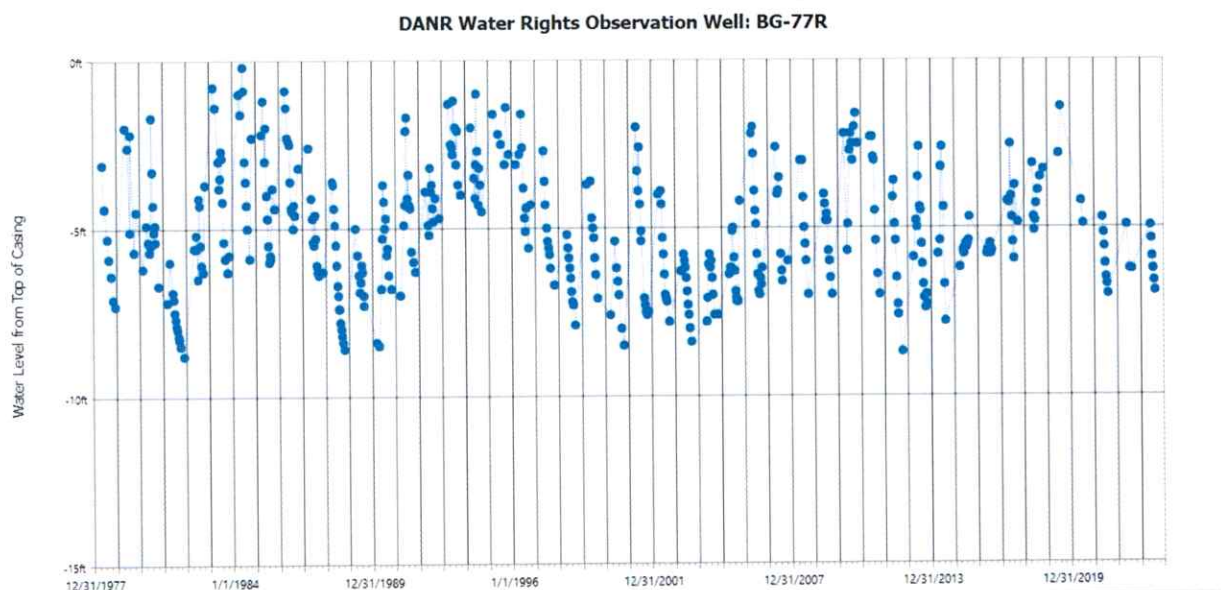


Figure 4. Hydrograph for observation well BG-77R (Water Rights, 2023b)

The hydrographs for these observation wells were compared to hydrographs for other observations wells completed into the Big Sioux: Aurora aquifer and all displayed a generally similar trend as shown on the hydrographs displayed in Figures 2 to 4 (Water Rights, 2023b). The hydrographs for the observation wells display stable to increasing water levels over their respective periods of record. The hydrographs for the Big Sioux: Aurora aquifer indicate that the aquifer responds well to climatic conditions because water levels are rising during wetter periods and declining to a stable water level during drier periods. Additionally, the water levels in the observation wells display that the amount of recharge to and natural discharge from the aquifer exceeds pumping with the aquifer returning to pre-pumping conditions between irrigation

seasons. Aquifer recovery indicates that climatic conditions and therefore, the effects of recharge to and natural discharges from the aquifer govern the long-term fluctuations of waters levels in the aquifer rather than the impacts of pumping from the Big Sioux: Aurora aquifer. By recognizing that both recharge to and natural discharge from an aquifer can be captured for pumping, the observation well hydrographs demonstrate unappropriated water is available for the proposed appropriation.

POTENTIAL FOR UNLAWFUL IMPAIRMENT OF EXISTING WATER RIGHTS:

While SDCL 46-2A-10 does not require a review of the potential for unlawful impairment to existing water rights and no well is being drilled nor water put to beneficial use under this application, this report will review existing water rights/permits and domestic users in the area of the future use this application proposes to use for the information of the Chief Engineer and the Water Management Board. At the time an application is filed, the siting of wells by Brookings Municipal Utilities to construct works and place the reserved water to beneficial use within the future use area will be subject to review regarding the likelihood of well interference between Brookings Municipal Utilities' wells and existing wells.

Currently, there are 80 water rights/permits authorized to appropriate water from the Big Sioux: Aurora aquifer and two future use permits reserving water (Water Rights, 2023c). Of those, 59 water rights/permits and one future use permit are located in the northern sub-unit of the Big Sioux: Aurora aquifer (Water Rights, 2023c). Additionally, there are two pending applications: Water Permit Application Nos. 8794-3 and 8795-3. The closest water right/permit (not held by the applicant) to the proposed future use area is Water Right No. 7463-3, which is held by Gerard & David Moriarty. The diversion point for Water Right No. 7463-3 is located within the proposed future use area for this application, in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 21-T110N-R49W (Table 4) (Figure 5) (Water Rights, 2023c).

There are domestic wells on file with the DNR-Water Rights Program that are completed into the Big Sioux: Aurora aquifer, with two domestic wells on file (not held by the applicant) within the proposed future use area located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ and NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 21-T110N-R49W (Water Rights, 2023d). There could potentially be other domestic wells completed into the Big Sioux: Aurora aquifer near the future use area that are not on file with the DNR-Water Rights Program. The location of the domestic wells in the well completion report database maintained by the Water Rights Program is based on the location on the report listed by the driller at the time of well completion.

Table 4. Water rights/permits authorized to withdraw water from the Big Sioux: Aurora aquifer within approximately one mile of the proposed future use area, as shown in Figure 5 (Water Rights, 2023c)

Permit No.	Name	Status	Use	Authorized Acres if IRR	Authorized Diversion Rate (cfs)	Authorized Annual Volume (acre-feet/year)
644-3	Jim Gilkerson	LC	IRR	149.3	0.5	
1344-3	N E Hansen LLC	LC	IRR	99	1.41	
1880-3	City of Brookings	LC	IRR	149	1.76	
1952-3	City of Aurora	LC	MUN		0.2	
2328-3	J L Anderson	LC	IRR	227	1.56	
2677-3	Terrance A Hill	LC	IRR	220	1.89	
3206-3	Lawrence De Groot	LC	IRR	132.4	1.78	
3213-3A	Sanderson Farms Inc	LC	IRR	356	5.09	
3346-3	Ida Slocum	LC	IRR	163	2.23	
3386-3	Reuben Nicolai	LC	IRR	127	1.78	
3668-3	Jan Sanderson	LC	IRR	132	1.78	
3979-3	City of Brookings	LC	MUN		6.69	
5241-3	Doris Jean Pahl	LC	IRR	134	1.67	
6048-3	City of Brookings	LC	MUN		2.9	2,100
6325-3	Valero Renewable Fuels Company LLC	LC	IND		2.67	1,935
7132-3	Dan Syhre	LC	IRR	100	1.43	
7463-3	Gerard & David Moriarty	LC	IRR	90	1.29	
7887-3	Novita Aurora LLC	LC	IND		0.67	
8012-3	City of Aurora	LC	IRR	5.0	0.1	
8146-3	Brookings Economic Dev Ag Tech Center	LC	IND		0.033	23.9
8285-3	Norm's Greenhouse & Nursery LLC	LC	COM		0.1	9.2
8401-3	L G Everist Inc	LC	IND		11.1	2,210
1598-3	City of Brookings	FU	MUN		n/a	2,426

FU: Future Use; LC: Licensed Water Right; COM: Commercial; IND: Industrial; IRR: Irrigation; MUN: Municipal

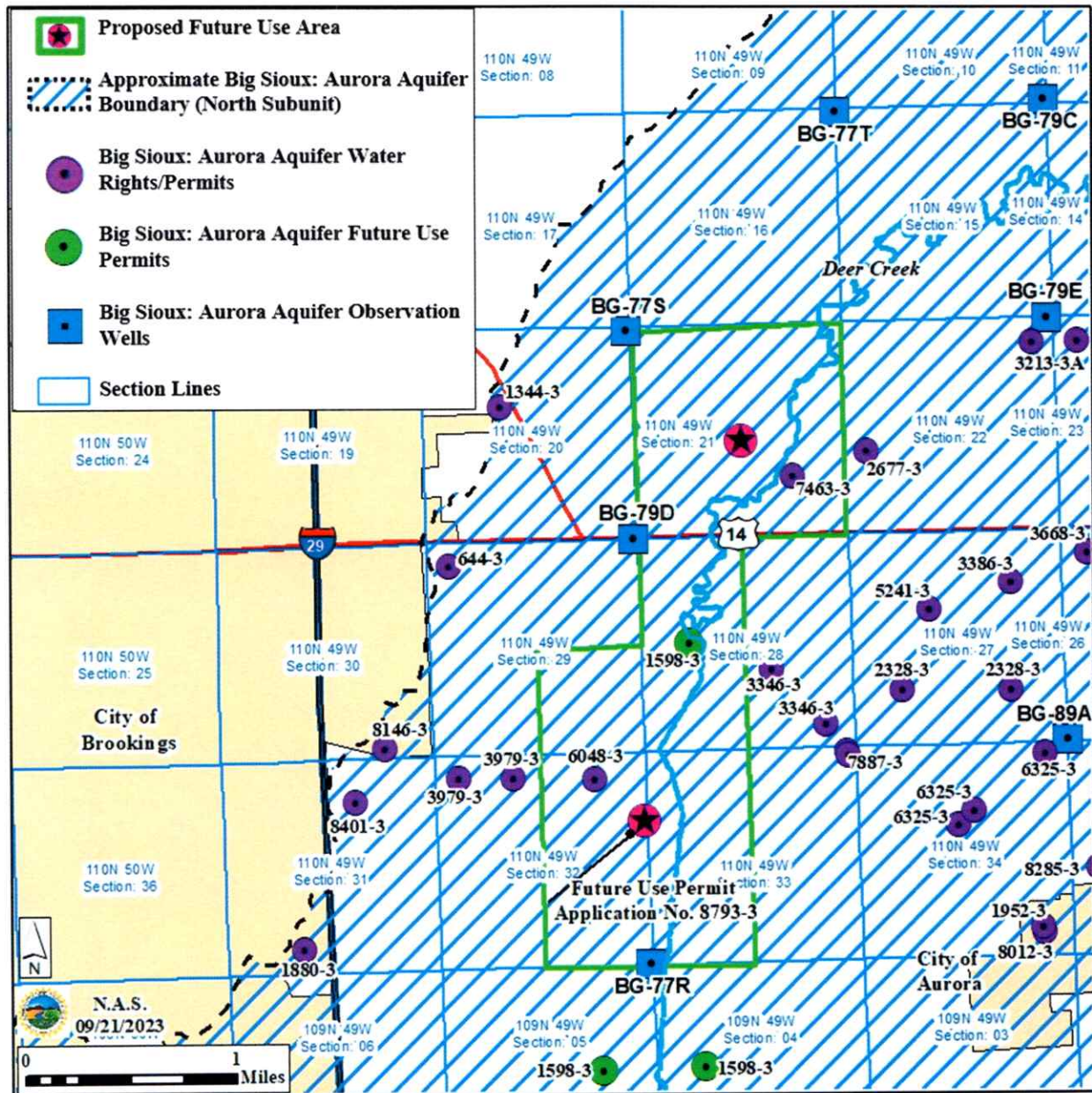


Figure 5. Location of the proposed future use area for Future Use Permit Application No. 8793-3 with the Big Sioux: Aurora aquifer water rights/permits and observation wells within approximately one mile (Water Rights, 2023b and 2023c)

The Big Sioux: Aurora aquifer is generally unconfined near the Big Sioux River and along major tributary valleys (such as Deer Creek), but is elsewhere confined beneath till (Hamilton, 1989; Water Rights, 2023d). Based on the water well and test hole completion reports on file in the proposed future use area, the Big Sioux: Aurora aquifer is expected to be unconfined in the proposed future use area (Water Rights, 2023b and 2023d). Drawdown created by pumping a well generally does not extend far from the pumped well in an unconfined aquifer; however, in a confined aquifer, drawdown from pumping could extend a distance from the diversion point. The exact drawdown behavior of a well cannot be known without an aquifer performance test.

In Brookings County, the Big Sioux aquifer has an average saturated aquifer thickness of approximately 30 feet and a documented maximum thickness of 93 feet (Hamilton, 1989). Within approximately one mile of the proposed future use area, water well and test hole completion reports on file for wells completed into the Big Sioux: Aurora aquifer have saturated thicknesses ranging from approximately 10 to 50 feet (Water Rights, 2023b and 2023d). There are no complaints on file with the DANR-Water Rights Program regarding well interference for adequate wells completed into the Big Sioux: Aurora aquifer (Water Rights, 2023e).

CONCLUSIONS:

1. Future Use Permit Application No. 8793-3 proposes to appropriate and reserve 4,500 acre-feet of water annually from the Big Sioux: Aurora aquifer. The area requested for future well development is Section 21, the W $\frac{1}{2}$ of Section 28, the SE $\frac{1}{4}$ of Section 29, the E $\frac{1}{2}$ of Section 32, and the W $\frac{1}{2}$ of Section 33; all in T110N-R49W. The water is reserved for the municipal purpose of providing future water supplies for the City of Brookings. This application does not authorize the construction of works or application of water to beneficial use. The site of interest is located in Brookings County approximately two miles east of Brookings, SD.
2. Brookings Municipal Utilities indicated that the future use reservation is needed to support increasing water demands and future growth. The applicant has provided justification in Future Use Permit Application No. 8793-3 for the volume of water requested to be reserved as required under ARSD 74:02:04:24.01.
3. Based on observation well data and the hydrologic budget, there is a reasonable probability that unappropriated water is available from the Big Sioux: Aurora aquifer to supply the proposed appropriation and reservation of water for future use.
4. At the time Brookings Municipal Utilities applies to construct and place the water to beneficial use reserved by Future Use Permit No. 8793-3, if approved, an assessment based on the proposed well location(s) will need to be conducted to determine if the proposed diversion can be developed without unlawful impairment of existing domestic water uses and water rights.



Nakaila Steen
Natural Resources Engineer II
SD DANR - Water Rights Program

Reviewed by:



Adam Mathiowetz, PE
Natural Resources Engineer IV
SD DANR - Water Rights Program

References

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- Hamilton, L.J., 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota. Water-Resources Investigations Report 88-4185, 87p. USGS, Huron, SD.
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- 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.
- McMath, G., 2020, October 23. Personal Communication. Environmental Scientist DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- SDGS, 2023. South Dakota Geological Survey Lithologic Logs Database. Accessed September 25, 2023. <http://cf.sddanr.net/lithdb/>.
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- Water Rights, 2023c. Water Right/Permit Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2023d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2023e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2023f. "2003-2022 Non-Irrigation Yearly Reports", SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



**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.**

October 20, 2023

Brookings Municipal Utilities
c/o Eric Witt
525 Western Avenue
Brookings SD 57006

Dear Mr. Witt:

Water Permit Application Nos. 8793-3, 8794-3, and 8795-3 have been examined and found to comply with the South Dakota Water Laws and applicable rules. Three separate notices have been sent to the Brookings Register printed in Brookings SD (Ph # 605 692-6271). You will need to contact the newspaper and authorize publication of the three notices. For your information, a copy each notice, the recommendations of the Chief Engineer and reports on the applications 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 Notices 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,

Rachel Rodriguez

Rachel Rodriguez
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. 8793-3 to Appropriate and Reserve Water for Future Use

Notice is given that Brookings Municipal Utilities, c/o Eric Witt, 525 Western Avenue, Brookings SD 57006 has filed an application for a future use water permit to appropriate 4,500 acre-feet of water annually from the Big Sioux Aurora Aquifer. The area to be reserved for future use is all of Section 21, W 1/2 Section 28, SE 1/4 Section 29, E 1/2 Section 32, W 1/2 Section 33; all in T110N-R49W. The water is reserved for the municipal purpose of providing future water supplies for the city of Brookings. This site is located approximately 2 miles east of Brookings SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8793-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.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 this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by November 6, 2023.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Chief Engineer. The comment shall be filed on a form provided by the Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by November 6, 2023.

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 _

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Friday, October 20, 2023 8:42 AM
To: registerclassifieds@brookingsregister.com
Subject: 8793-3 Brookings Municipal Utilities - Public Notice
Attachments: 8793-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on October 26, 2023.

Brookings Municipal Utilities, c/o Eric Witt, 525 Western Avenue, Brookings SD 57006, (605-692-6325) 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 Ave, Pierre SD 57501.

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

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



Affidavit of Publication

State of South Dakota

Exhibit "A"

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

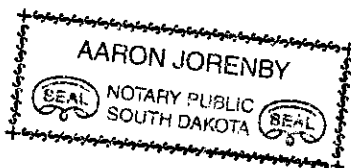
LEG #255985 Notice of Application

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

October 26, 2023

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:

Forty-Five Dollars and Sixty-Two Cents \$45.62



October

A handwritten signature in black ink, appearing to be "Katherine Foiles", written over a horizontal line.

31 day of

2023

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

RECEIVED

NOV 06 2023

**OFFICE OF
WATER**

**NOTICE OF
APPLICATION NO. 8793-
3 TO APPROPRIATE AND
RESERVE WATER FOR**

FUTURE USE

Notice is given that Brookings Municipal Utilities, c/o Eric Witt, 525 Western Avenue, Brookings SD 57006 has filed an application for a future use water permit to appropriate 4,500 acre-feet of water annually from the Big Sioux Aurora Aquifer. The area to be reserved for future use is all of Section 21, W 1/2 Section 28, SE 1/4 Section 29, E 1/2 Section 32, W 1/2 Section 33; all in T110N-R49W. The water is reserved for the municipal purpose of providing future water supplies for the city of Brookings. This site is located approximately 2 miles east of Brookings SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8793-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.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 this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by November 6, 2023.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Chief Engineer. The comment shall be filed on a form provided by the Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by November 6, 2023.

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 October 26, 2023 at the total approximate cost of \$45.62 and may be viewed free of charge at www.sdpublicnotices.com.

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Friday, October 20, 2023 10:09 AM
To: 'ewitt@swiftel-bmu.com'
Subject: 8793-3, 8794-3, 8795-3 Brookings Municipal Utilities - Public Notice
Attachments: 8793-3 Rec.pdf; 8794-3 Rec.pdf; 8795-3 Rec.pdf; Brookings Letter.pdf; Public Notices.pdf

Good morning,

Attached is a copy of the reports, chief engineer's recommendations and information regarding the public notices for your water permit applications. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is also being mailed to you today.

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

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JAN 08 2024

Brookings Municipal Utilities
c/o Eric Witt
525 Western Avenue
Brookings SD 57006

Dear Mr. Witt:

Enclosed is Future Use Permit No. 8793-3 as approved by the Water Management Board.

When plans for facilities are prepared to put any portion of the water granted in the future use permit to beneficial use, an application covering such facilities and water use should be submitted to this office before construction is initiated.

Sincerely,

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

enclosure



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

**Affidavit of Public Notice
Posting on DANR Website**

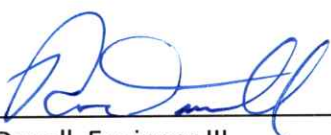
Pursuant to SDCL § 46-2A-4, public notice of the following application was posted on the DANR web site at <https://danr.sd.gov/public>. The posted public notice is the same notice as published in the pertinent newspaper(s) and a copy of the public notice is maintained in the application file. If the application is contested, the posting is moved to the DANR contested case website at <https://danr.sd.gov/public/ContestedCase.aspx> until final action is taken on the application pursuant to SDCL § 46-2A-4.

Application No.: 8793-3

Name of Applicant: Brookings Municipal Utilities, c/o Eric Witt

Date of Posting: 10/24/2023

Date of Removal: 1/8/2024



Ron Duvall, Engineer III

1/8/2024

Date

Subscribed and sworn to before me, a notary public, this 8th day of January, 2024.



Notary Public - South Dakota
My commission expires: **Rachel Rodriguez**
My Commission Expires
May 16, 2029

(SEAL)

