

WATER PERMIT NO. 8669-3

Name of Applicant: **Ronald Jongeling**

Address: **45950 191st St Castlewood SD 57223**

Phone: **605 881-5812**

Amount of Water Claimed: **no add'l**

Total Acres: **66 acres**

Source of Water Supply: **2 existing wells**

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **7 miles south of Castlewood**

PRIORITY

Date Received: **10-11-22**

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

Corrected Application Received: **10-17-22**

Period of Annual Use: **April 1 – October 31**

Remarks: **Additional acres to Water Right No. 2528-3**

Diversion Point: **NW 1/4 NE 1/4 Sec 1-T113N-
R52W**

Land to be Irrigated: **SE 1/4 Sec 1-T113N-R53W**

Depth of Well: **52 feet**

Well Driller:

Remarks:

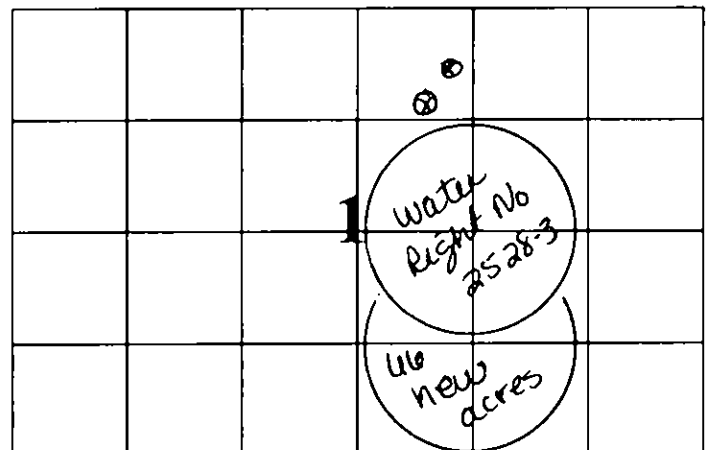
Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **10-18-22**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 8669-3**

Date of first receipt of application October 11, 2022.

Date of return to applicant for corrections, amendments or changes October 11, 2022.

Date of receipt of corrected application October 17, 2022.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8669-3 to Ronald Jongeling, 45950 191st St, Castlewood SD 57223 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. 8669-3 authorizes irrigation of an additional 66 acres. Water Right No. 2528-3 authorizes 1.11 cubic feet of water per second (cfs) from two wells completed into the Big Sioux:Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 125 acres located in the S 1/2 NE 1/4, N 1/2 SE 1/4 Section 1; all T113N-R52W. This permit authorizes irrigation of an additional 66 acres located in the SE 1/4 Section 1-T113N-R52W from the two existing wells described above. This permit and Water Right No. 2528-3, combined, will authorize a total of 1.11 cfs for irrigation of 191 acres. This site is located approximately 7 miles south of Castlewood 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: April 1 – October 31.
3. The date from which applicant may claim right is October 11, 2022.
4. The date of approval of Permit No. 8669-3 is January 9, 2023.
5. One-fifth of the construction is to be completed on or before July 9, 2025.
6. All construction is to be completed on or before January 9, 2028.
7. Water is to be put to beneficial use on or before January 9, 2032.
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 wells approved under Water Right No. 2528-3 and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled 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 Environment and Natural Resources

JAN 19 2023
date



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

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8669-3</u> (office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Hamlin Co. Republican</u>
	<u>Public Opinion</u>

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☒ Amendment/Correction to Permit No. 2528-3
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)
additional acres to Water Right No 2528-3

1. Name to Appear on Irrigation Permit Ronald Jongeling

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

Mailing Address 45950 191st St Castlewood SD 57223
(Address) (City) (State) (Zip Code)

Phone 605-873-2853 Mobile 881-5812 Email cheryl@itctel.com

2. Amount of water claimed no add'l *CFS or 0 **GPM 0 ***AF Total Acreage 66 acres
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply 2 existing wells in Big Sioux - Brookings

4. Location of point of diversion NW NE Sec 1 T113N-R52W
(example -- 3 wells in SW1/4 NE1/4 section 17-T104N-R53W)

County Hamlin

5. County or counties where water will be used Hamlin

6. Annual period during which water is to be used April 1 - Oct 31

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
Field 1 NW $\frac{1}{4}$ of SE $\frac{1}{4}$	2	all land	
Field 2 SW $\frac{1}{4}$ of SE $\frac{1}{4}$	30	located in Sec 1-113-52	
Field 3 SE $\frac{1}{4}$ of SE $\frac{1}{4}$	30	Hamlin County	
Field 4 NE $\frac{1}{4}$ of SE $\frac{1}{4}$	4		

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

We are adding approximately 66 acres
to an existing irrigation

RECEIVED

OCT 11 2022

OFFICE OF
WATER

I, Ronald Jongeling, the applicant, certify under
Name of Person Title (if applicable)

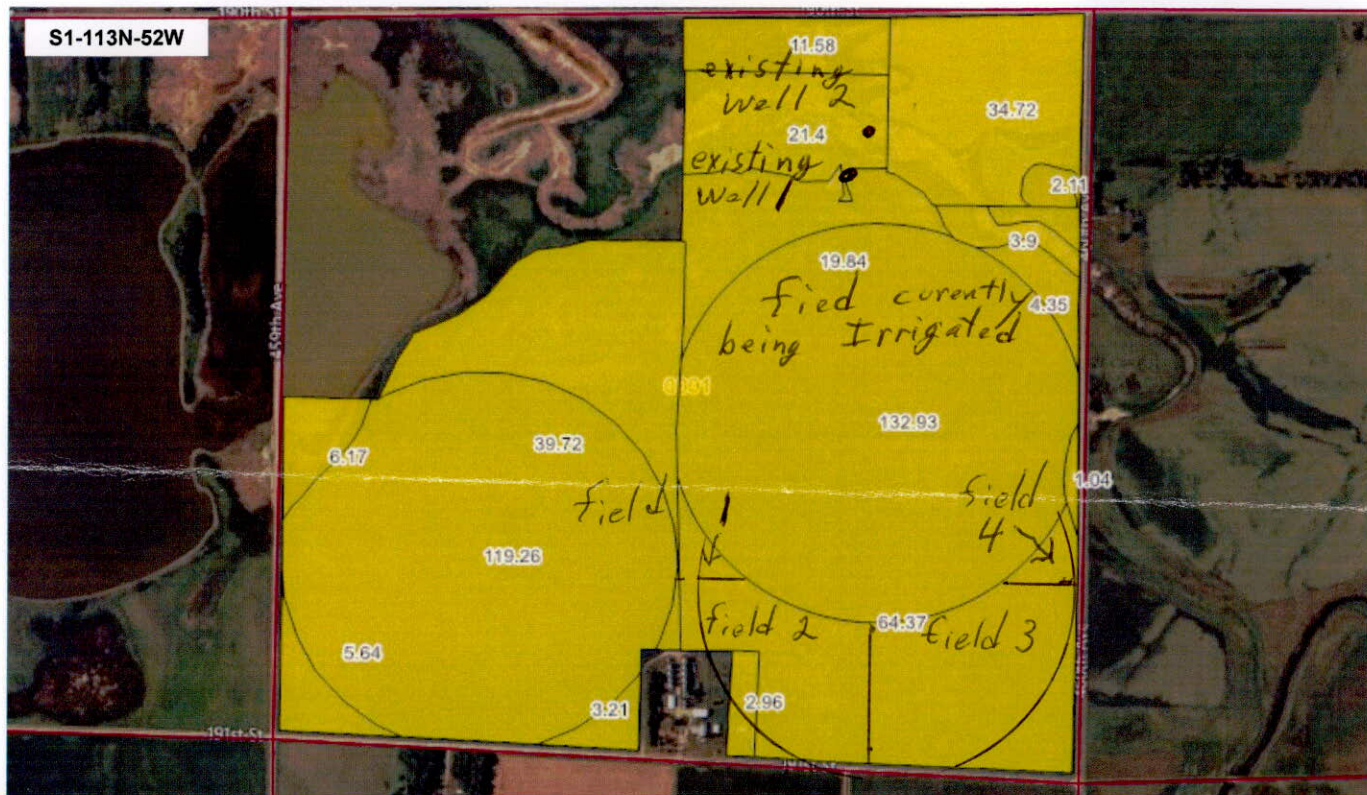
penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

MAP BASED ACREAGE FORM



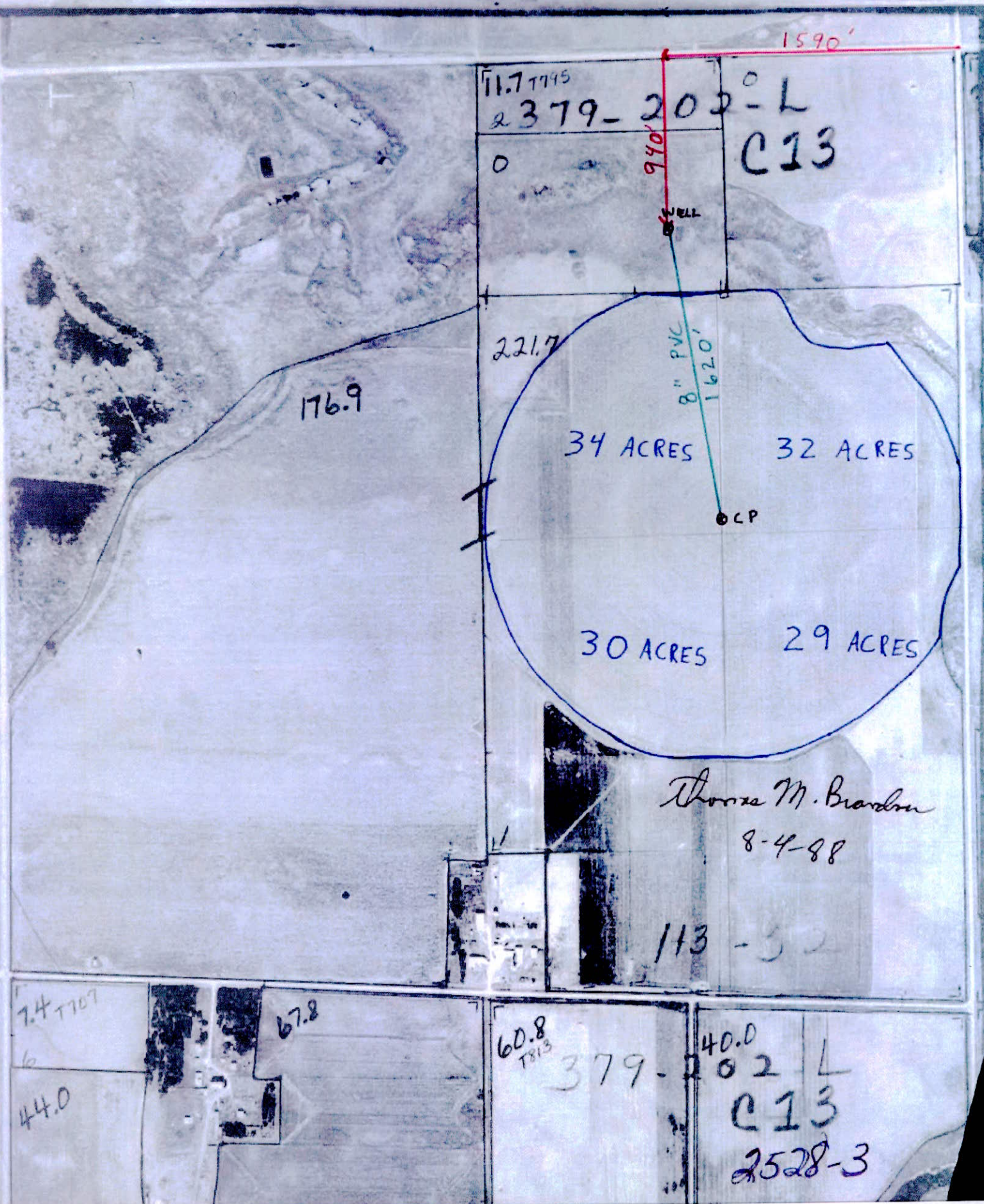
Section S1-113N-52W

Hamlin, South Dakota



1988

NOT TO SCALE



RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date October 17, 2022

RECEIVED OF Ronald/Cheryl Jongeling 45950 191st St., Castlewood SD 57223

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

Fee for Application for Permit No. <u>8669-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$ <u>750.00</u>
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>8669-3</u>	\$ <u>200.00</u>
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>950.00</u>

By Eric Gronlund
Chief Engineer
Em



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

October 11, 2022

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

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

- The application/license fee for irrigation of 66 acres \$950.00.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

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



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8669-3, Ronald Jongeling**

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 Water Permit Application No. 8669-3, Ronald Jongeling, 45950 191st Street, Castlewood SD 57223.

The Chief Engineer is recommending APPROVAL of Application No. 8669-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board with the following qualifications:

1. The wells approved under Water Right No. 2528-3 and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled 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
December 14, 2022

Report to the Chief Engineer

On Water Permit Application No. 8669-3

Ronald Jongeling

December 16th, 2022

Water Permit Application No. 8669-3 proposes to authorize an additional 66 acres for irrigation in addition to what is currently authorized by Water Right No. 2528-3. Water Right No. 2528-3 currently authorizes 1.11 feet per second (cfs) from two wells completed into the Big Sioux: Brookings aquifer located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 1 for irrigation of 125 acres located in the S $\frac{1}{2}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$ Section 1; all in T113N-R52W in Hamlin County. This application proposes to irrigate an additional 66 acres located in the SE $\frac{1}{4}$ Section 1-T113N-R52W from the two existing wells. This application, if approved, and Water Right No. 2528-3 will authorize a combined total of 1.11 cfs for the irrigation of 191 acres. The site of interest is located approximately 7 miles south of Castlewood, SD.

AQUIFER: Big Sioux: Brookings (BS:B)

HYDROGEOLOGY:

The Brookings management unit of the Big Sioux aquifer is a glacial outwash that consists of medium to very coarse sand and very fine to medium gravel (Kume, 1985; Hamilton, 1989). The depth of the top of the Big Sioux: Brookings aquifer ranges from the land surface in the Big Sioux River floodplain to 212 feet below land surface (Hamilton, 1989). In Brookings, Deuel, Kingsbury, and Moody Counties, the Big Sioux: Brookings aquifer is estimated to underly approximately 323,000 acres and contain approximately 1,453,000 acre-feet of recoverable water in storage (Hedges et al, 1982 and Stonesifer, 2013). The direction of groundwater movement in the Big Sioux aquifer is south and towards the Big Sioux River (Hamilton, 1989). The Big Sioux aquifer is unconfined near the Big Sioux River and along major tributary valleys, but elsewhere it is confined beneath till (Hamilton, 1989).

A water well completion report is available, for one of the two wells, for Water Right No. 2528-3 (Water Rights, 2022d). The well was completed on November 23rd, 2001. The well is completed into the Big Sioux: Brookings aquifer and has a saturated aquifer thickness of 23 feet, with the depth to the top of aquifer material at 11 feet below the ground surface, and static water level at 6 feet below the ground surface at the time of well completion (SDGS, 2022; Water Rights, 2022b and 2022d). Based on the water well completion reports near the diversion point and the well completion report for the existing well, the Big Sioux: Brookings aquifer is expected to be locally confined by a clay lens at the diversion point (SDGS, 2022; Water Rights, 2022b and 2022d).

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 that unappropriated water is available for the applicant's proposed use, the proposed diversion can be developed without unlawful impairment of existing domestic water

uses and water rights, the proposed use is a beneficial use, and the permit is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board as defined by §§ 46-2-9 and 46-2-11.” This report will address the availability of unappropriated water and the potential for unlawful impairment of existing domestic uses and water rights within the Big Sioux: Brookings aquifer.

WATER AVAILABILITY:

Water Permit Application No. 8669-3 proposes to appropriate water from the Big Sioux: Brookings 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: Brookings aquifer is not older than or stratigraphically lower than the Greenhorn Formation, and the applicant’s proposed use is not 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: Brookings aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Big Sioux: Brookings aquifer is received primarily through infiltration of precipitation and seepage through till, lake deposits, and underlying aquifers (Hamilton, 1989). Using observation well analysis Hedges et al (1985) estimated a recharge rate of 4.0 inches per year for the Big Sioux: Brookings aquifer. The Big Sioux: Brookings aquifer has an estimated areal extent of approximately 323,000 acres (Stonesifer, 2013). Therefore, the average annual recharge rate (based on Hedges et al, 1985; Stonesifer, 2013) is approximately 107,000 acre-feet/year.

Discharge

Discharge from the Big Sioux: Brookings aquifer in South Dakota primarily occurs through well withdrawals, seepage to surface water features, and evapotranspiration in areas where the aquifer is at or near land surface. Currently, there are 260 water rights/permits authorized to appropriate water from the Big Sioux: Brookings aquifer (Water Rights, 2022c). There are 11 future use permits reserving 6,041 acre-feet/year of water from the Big Sioux: Brookings aquifer, shown on Table 1 (Water Rights, 2022c).

Table 1. Future Use permit reserved water for the Big Sioux: Brookings aquifer (Water Rights, 2022c)

Future Uses Permit Holder	Permits	Amount of Reserved Water (acre-feet)
Joint Well Fields Inc.	3982-3, 3982A-3, 3982B-3, 6988-3	2,375
City of Lake Norden	4055-3, 6261-3	0
City of Castlewood	558A-3	123
City of Volga	5875-3, 6259-3	1,143
Sioux Rural Water System	5094-3, 7853-3	2,400
	TOTAL:	6,041

Table 2 summarizes the 46 non-irrigation water rights/permits authorized to appropriate water from the Big Sioux: Brookings aquifer with the estimated annual use for each water right/permit as determined by their limiting diversion rate or annual volume. The amount of water that can be withdrawn was estimated by assuming the non-irrigation water rights/permits limited by an annual volume will withdraw their entire appropriated volume every year. It is estimated that the non-irrigation water rights/permits limited only by a diversion rate will pump at their maximum permitted diversion rate for 60 percent of the time. This is a standard method used by the DANR-Water Rights Program for estimating average annual withdrawals by non-irrigation appropriations. It should be noted that some of the permits listed on Table 2 are connected to rural water systems rather than local wells; so, they will not contribute to the annual withdrawal rate. Overall, the annual withdrawal rate for the Big Sioux: Brookings aquifer non-irrigation water rights/permits is approximately 14,602 acre-feet/year (Table 2) (Water Rights, 2022c).

Table 2. Estimated annual use for non-irrigation water rights/permits authorized to divert water from the Big Sioux: Brookings aquifer (Water Rights, 2022c)

Permit No.	Name	Status	Uses	Authorized Diversion Rate (cfs)	Authorized Annual Volume (acre-feet)	Estimated Use (acre-feet/year)
2111-3	GOPHER SIGN CO	LC	COM	0.040	N/A	17.38
5675-3	LAKE POINSETT ESTATES	LC	COM	0.090	N/A	39.10
6019-3	DAKOTA WHOLESALE BAIT INC	LC	COM, DOM	0.355	N/A	154.21
6329-3	OSWALD	LC	COM	1.280	N/A	556.03
6745-3	HANSEN	LC	COM	0.110	N/A	47.78
6785-3	DRUMGOON DAIRY LP	LC	COM, LCO	0.200	N/A	86.88
6786-3	NYSTROM	LC	COM, LCO	0.170	N/A	73.85
7277-3	OLD TREE FARMS	LC	COM, LCO	0.100	N/A	43.44
7854-3	ULVESTAD	PE	COM, LCO	0.890	N/A	386.62
7259-3	OLD APOSTOLIC LUTHERAN CHURCH	LC	GEO	1.000	120.00	120.00

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5129-3	TECHNICAL ORDNANCE INC	LC	IND	0.100	N/A	43.44
6146-3	SD SOYBEAN PROCESSORS	LC	IND	0.144	N/A	62.55
1317-3	ESTELLINE	LC	MUN	1.100	N/A	477.84
1759-3	VOLGA	LC	MUN	1.650	N/A	716.76
3117-3*	HAYTI	LC	MUN	0.330	N/A	0.00
4950-3	BRUCE	LC	MUN	0.270	N/A	117.29
5071-3*	CLEAR LAKE	LC	MUN	0.450	N/A	0.00
5167-3	VOLGA	LC	MUN	0.450	N/A	195.48
534A-3*	CLEAR LAKE	LC	MUN	1.100	N/A	0.00
557-3	LAKE NORDEN	LC	MUN	3.000	N/A	1303.20
558B-3	CASTLEWOOD	LC	MUN	0.560	N/A	243.26
558D-3	CASTLEWOOD	LC	MUN	0.330	N/A	143.35
5645-3	ESTELLINE	LC	MUN	0.660	N/A	286.70
617-3*	HAYTI	LC	MUN	0.660	N/A	0.00
5815-3	LAKE NORDEN	LC	MUN	0.560	139.00	139.00
5941-3	VOLGA	LC	MUN	0.890	644.00	644.00
6417-3	LAKE NORDEN	LC	MUN	1.450	630.00	630.00
6542-3	LAKE NORDEN	LC	MUN	0.600	262.00	262.00
2033-3	SIOUX RURAL WATER SYSTEM	LC	RWS	0.750	N/A	325.80
4830-3	BROOKINGS-DEUEL RWS	LC	RWS	2.000	N/A	868.80
5079-3	BROOKINGS-DEUEL-KINGBROOK	LC	RWS	2.900	N/A	1259.76
5098-3	SIOUX RURAL WATER SYSTEM	LC	RWS	2.000	N/A	868.80
5434-3	BROOKINGS-DEUEL-KINGBROOK	LC	RWS	1.000	434.00	434.00
5602-3	BROOKINGS-DEUEL-KINGBROOK	LC	RWS	1.000	434.00	434.00
5960-3	SIOUX RURAL WATER SYSTEM	PE	RWS	1.330	600.00	600.00
6002-3	BROOKINGS-DEUEL-KINGBROOK	LC	RWS	1.000	362.00	362.00
2245B-3	BROOKINGS-DEUEL RWS	LC	RWS	1.930	270.00	270.00
6718-3	BROOKINGS-DEUEL-KINGBROOK	LC	RWS	1.000	300.00	300.00
7381-3	BROOKINGS-DEUEL RWS	PE	RWS	0.000	N/A	0.00
7852-3	SIOUX RURAL WATER SYSTEM INC	PE	RWS	1.330	600.00	600.00
8185-3	JOINT WELL FIELD INC.	PE	RWS	0.000	603.00	603.00
7852A-3	SIOUX RURAL WATER SYSTEM	PE	RWS	0.000	N/A	0.00
6988A-3	JOINT WELL FIELD INC	PE	RWS	0.000	N/A	0.00
8371-3	JOINT WELL FIELD INC	PE	RWS	0.000	434.00	434.00
1956-3	MEYER	LC	SHD	1.000	N/A	434.40
1956-3A	HAMILTON	LC	SHD	0.040	N/A	17.38

I.C Licensed Water Right, PE Water Permit, COM Commercial, DOM Domestic, LCO Livestock Confinement Operation, GEO Geothermal, IND Industrial, MUN Municipal, RWS Rural Water System, SHD Suburban Housing Development, *these Water Rights get their water from a separate system rather than local wells.	TOTAL:	14,602
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Currently, there are 214 irrigation water rights/permits appropriating water from the Big Sioux: Brookings aquifer (Water Rights, 2022c). Irrigation water rights/permits have been typically required to report their annual usage on an irrigation questionnaire since 1979. The average annual withdrawal rate for the Big Sioux: Brookings aquifer irrigation water rights/permits that have reported over the period of record (1979 to 2021) is approximately 8,943 acre-feet per year (Table 3) (Water Rights, 2022a). To reflect the current development of irrigation water rights/permits more accurately, the average annual withdrawal rate for irrigation appropriations from 2012 to 2021 is approximately 10,951 acre-feet per year (Table 3) (Water Rights, 2022a).

There are four water permits approved in 2022, that are not accounted for in Table 3, Water Permit Nos. 8601-3, 8602-3, 8638-3, and 8645-3 (Water Right, 2022c). Water Permit Nos. 8601-3, 8602-3, 8638-3, and 8645-3 combined are authorized to irrigate 309 acres (Water Rights, 2022c). Generally, irrigators in eastern South Dakota apply less than one foot of water per acre per year. However, to account for fluctuation in wet and dry cycles from year to year, a one foot of water per acre per year application rate will be used to somewhat overestimate the annual withdrawal rate for these irrigation water rights/permits. Therefore, the estimated average annual withdrawal rate for Water Permit Nos. 8601-3, 8602-3, 8638-3, and 8645-3 is estimated at approximately 309 acre-feet per year. Additionally, this water permit application also proposes to use an estimated additional 66 acres-feet per year. Collectively, the average annual withdrawal rate for the irrigation appropriations from 2012 to 2021 (10,951 acre-feet/year), plus the estimated average annual withdrawal rate for the irrigation water rights/permits approved in 2022 and this application (375 acre-feet/year), is approximately 11,326 acre-feet per year.

Table 3. Reported historic irrigation use from the Big Sioux: Brookings aquifer (Water Rights, 2022a)

Year	No. of Permits Reporting	Reported Pumpage (acre-feet)
1979	184	6,144
1980	187	9,837
1981	198	9,040
1982	155	4,558
1983	161	8,227
1984	188	8,177
1985	181	4,951
1986	179	2,855
1987	171	10,015
1988	167	18,521
1989	166	13,931
1990	175	5,863

Report on Water Permit Application No. 8669-3

1991	165	7,772
1992	162	2,332
1993	162	1,043
1994	160	2,855
1995	161	3,862
1996	154	7,221
1997	153	5,650
1998	157	8,110
1999	155	7,841
2000	153	8,934
2001	149	8,385
2002	149	12,411
2003	149	11,380
2004	156	11,810
2005	159	11,513
2006	161	14,325
2007	164	12,730
2008	166	12,506
2009	174	9,173
2010	172	2,713
2011	174	8,528
2012	177	19,483
2013	198	15,432
2014	212	9,948
2015	209	8,796
2016	210	10,267
2017	209	9,572
2018	211	7,953
2019	211	106
2020	209	10,001
2021	205	17,955
Max	212	19,483
Min	149	106
Avg (1982-2021)	174	8,943
Avg (2012-2021)	205	10,951

There are domestic wells completed into the Big Sioux: Brookings aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2022d). Due to their relatively low diversion rates, withdrawals from domestic wells are 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: Brookings 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: Brookings aquifer.

Hydrologic Budget Summary

The average annual recharge rate to the Big Sioux: Brookings aquifer is estimated to be about 107,000 acre-feet/year (Stonesifer, 2013). The average withdrawal rate from the Big Sioux: Brookings aquifer totals to approximately 31,969 acre-feet/year; (future use: 6,041 acre-feet/year; non-irrigation: 14,602 acre-feet/year; irrigation (2012 to 2021 plus the water rights/permits approved between 2021 and 2022) and this application: 11,326 acre-feet/year). Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Big Sioux: Brookings aquifer for the proposed appropriation.

OBSERVATION WELL DATA:

Administrative Rule of South Dakota (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.

The DANR-Water Rights Program monitors 77 observation wells completed into the Big Sioux: Brookings aquifer. The observation wells in the area of this application are shown on Figure 1 (Water Rights, 2022b). These observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. The three closest observation wells to the diversion point are HN-57B (approximately 0.5 miles east), HN-77F (approximately 3.5 miles northeast), and HN-77D (approximately 3.9 miles northwest) (Water Rights, 2022b). The hydrographs for these observation wells are displayed in Figures 2 to 4 respectively (Water Rights, 2022b). The data points utilized to construct the hydrographs are measurement of the static water level in the observation wells from the top of the well casing. It is worth noting the hydrograph titles display DENR Water Rights Observation Well on the hydrographs when the titles should display DANR Water Rights Observation Well on hydrographs. The majority of the observation wells in the Big Sioux: Brookings aquifer have a stable water level, with several observation wells that are under the influence of heavy pumping showing a history of slightly declining water levels that eventually stabilize. The data shown on Figures 3 and 4 share a similar trend with most of the observation wells in the Big Sioux: Brookings aquifer. There are a few observation wells that have their water level strongly impacted by surface water sources, such as the Big Sioux River and nearby lakes (Water Rights, 2022b). Observation wells in close proximity to water rights have their water levels strongly impacted by pumping. Which is why some observation well that are not surrounded by pumping have a rising water levels , while there is a slightly declining water level in the areas that have a lot of pumping.

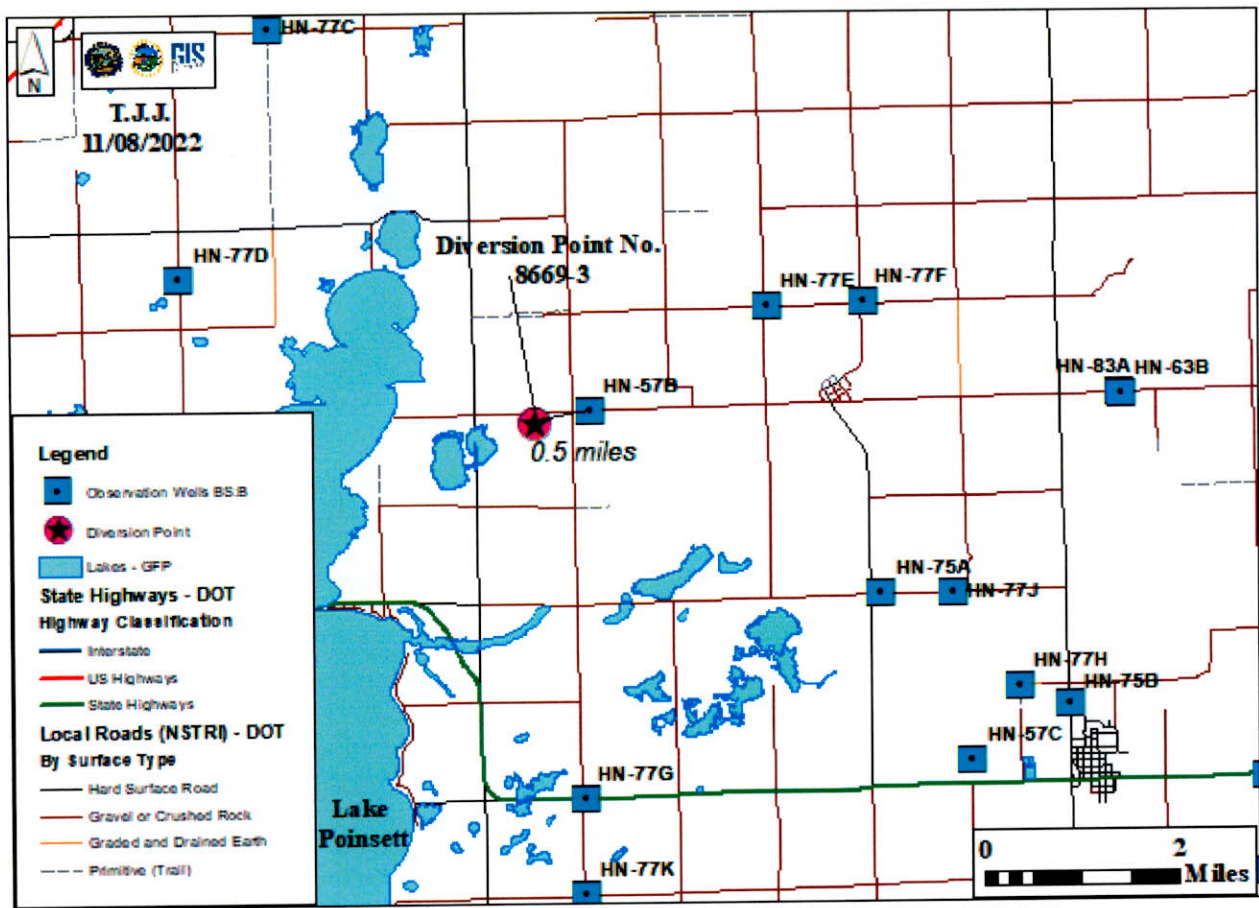


Figure 1. Map of the area Big Sioux: Brookings aquifer observation wells (Water Rights, 2022b and 2022c), and the location of diversion point for Water Permit Application No. 8669-3.

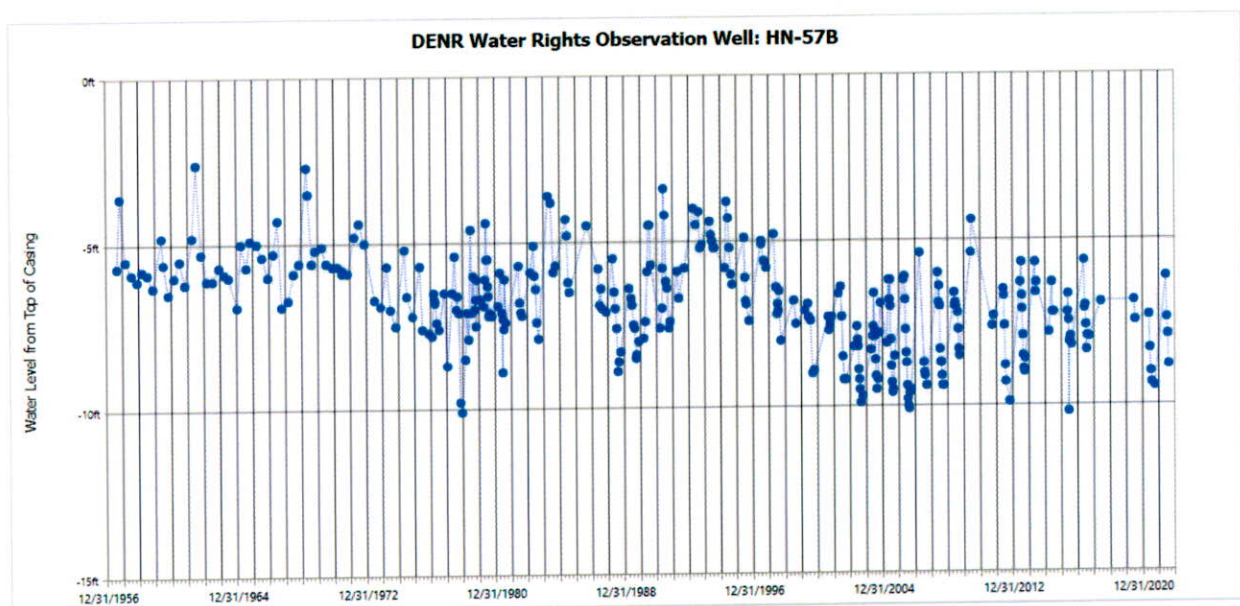


Figure 2. Hydrograph for observation well HN-57B (Water Rights, 2022b)

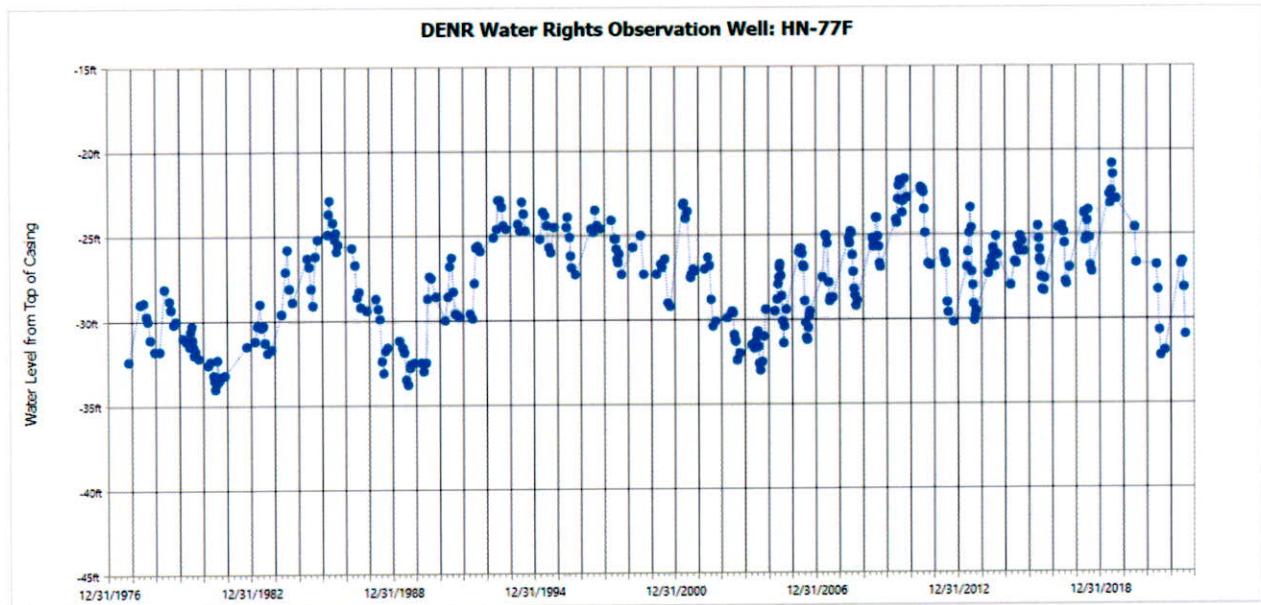


Figure 3. Hydrograph for observation well HN-77F (Water Rights, 2022b)

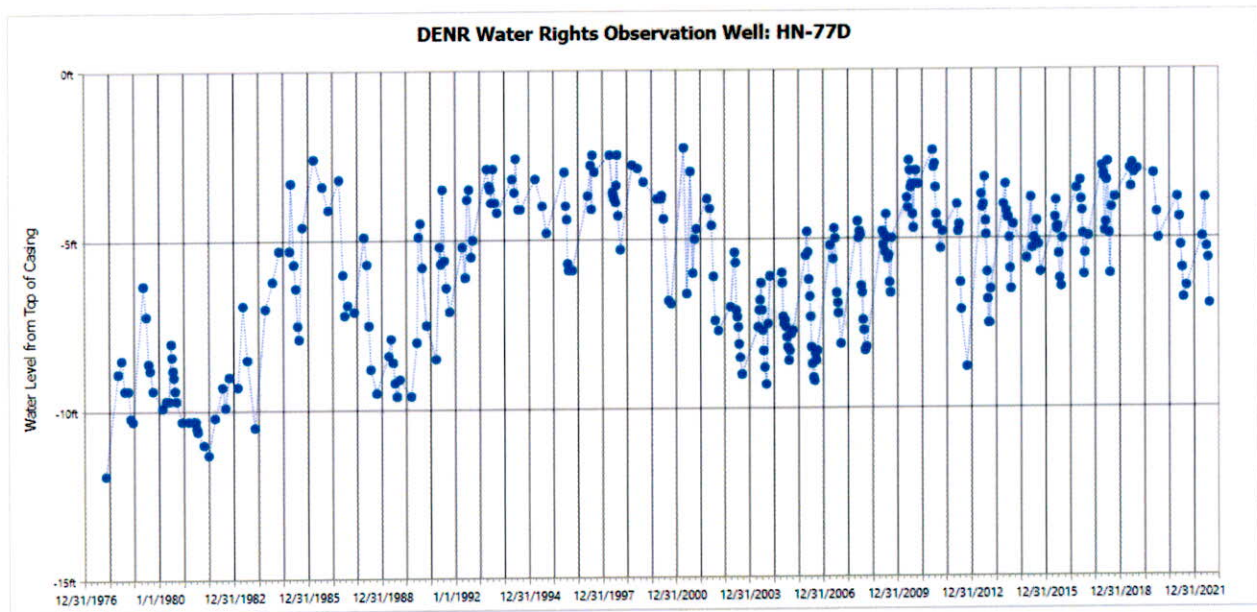


Figure 4. Hydrograph for observation well HN-77D (Water Rights, 2022b)

The hydrographs for the observation wells display generally stable water levels with a couple showing a history of slightly declining water levels, due to additional pumping, that eventually stabilized under the new pumping demand. The hydrographs for the Big Sioux: Brookings aquifer indicate that the aquifer responds well to climatic conditions because water levels are rising during wetter periods (early spring snowmelt and precipitation) 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 greatly 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: Brookings 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:

Currently, there are 260 water rights/permits, partially shown on Figure 5, authorized to appropriate water from the Big Sioux: Brookings aquifer (Water Rights, 2022c). The closest water right/permit, besides Water Rights held by Ronald Jongeling, to the diversion point is Water Right No. 7525-3 which is held by Brad Jongeling. The diversion point for Water Right No. 7525-3 is located approximately 1.2 miles northwest of the diversion point for this application (Water Rights, 2022c).

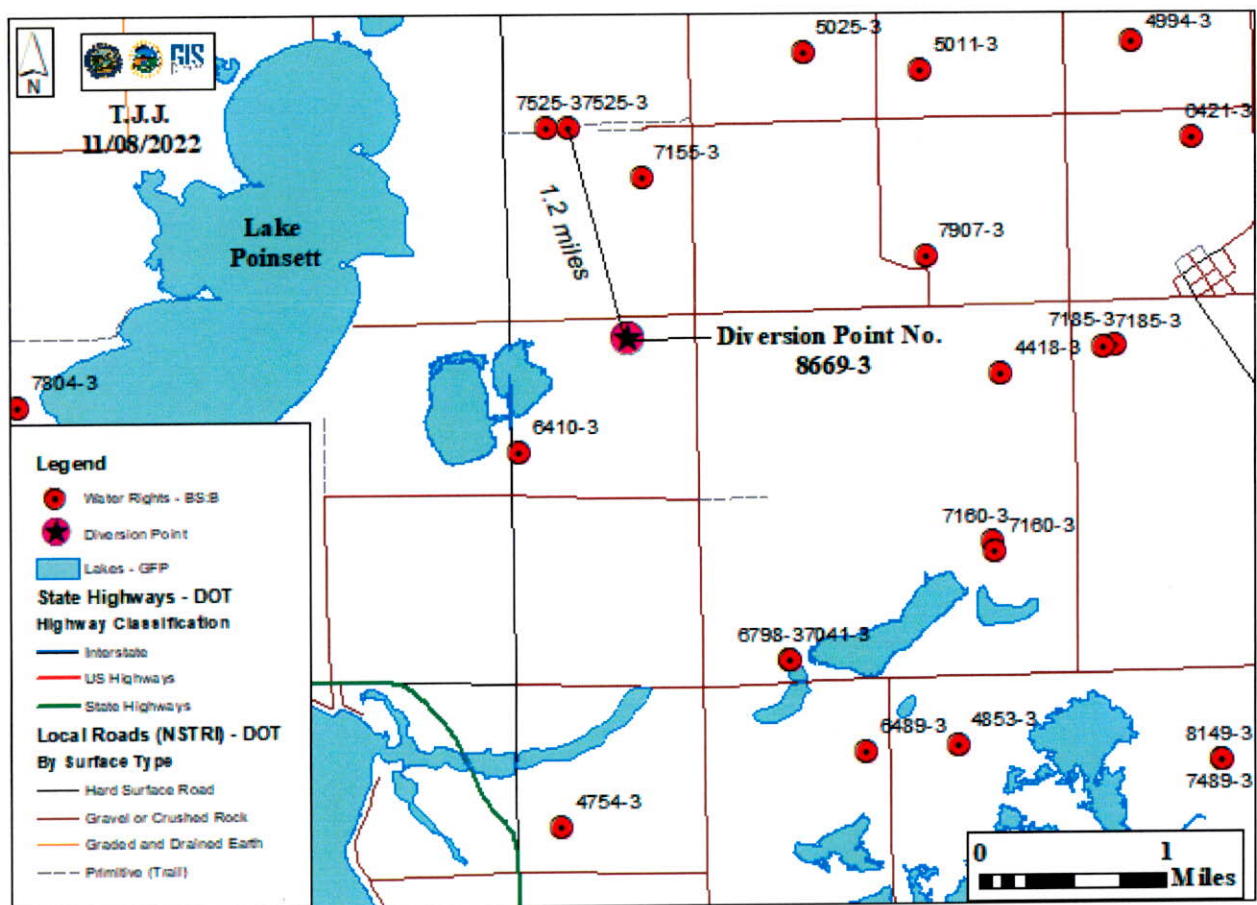


Figure 5. Map of the Big Sioux: Brookings aquifer water rights/permits (Water Rights, 2022b and 2022c), and the location of diversion point for Water Permit Application No. 8669-3.

There are domestic wells on file with the DANR-Water Rights Program that are completed into the Big Sioux: Brookings aquifer, with the closest domestic well on file (not held by the applicant) approximately 0.5 miles east of the diversion points (Water Rights, 2022d). There could potentially be other domestic wells completed into the Big Sioux: Brookings aquifer near the diversion points that are not on file with the DANR-Water Rights Program.

In Hamlin and Deuel Counties, the Big Sioux aquifer has an average saturated aquifer thickness of approximately 30 feet (Kume, 1985). Within approximately one-half mile of the existing wells proposed to be used, water well and test hole completion reports on file for wells completed into the Big Sioux: Brookings aquifer have saturated aquifer thicknesses ranging from approximately 10 to 50 feet; while the well completion report at the application location has a saturated aquifer thickness of 23 feet (SDGS, 2022; Water Rights, 2022b and 2022d). This would generally allow for enough thickness for a pump to be placed 20 feet below the top of the aquifer, which is required for the well to be considered adequate under ARSD 74:02:04:20(6). Any drawdown as a result of the proposed diversion is not expected to unlawfully impair nearby adequate wells. In Deuel and Hamlin Counties, there are no complaints on file with the DANR-Water Rights Program regarding well interference for adequate wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2022c).

While the Big Sioux: Brookings aquifer is primarily under unconfined conditions, based on nearby well completion reports an overlying clay and till layer at the diversion point is creating locally confined conditions for this application. In an unconfined aquifer, drawdown created by pumping does not extend far from the pumped well. However in a confined aquifer, drawdown from a pumping well can extend some distance from the well. The Water Management Board recognizes that putting water to beneficial use requires a certain amount of drawdown to occur. The Board has developed rules to allow water to be placed to maximum beneficial use without the necessity of maintaining artesian head pressure for domestic use. The Water Management Board defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) 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.”

The Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use during the issuance of Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills. The Board adopted the Findings of Facts and Conclusions of Law that noted the reservation of artesian head pressure for delivery of water would be inconsistent with SDCL 46-1-4 which states, “general welfare requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable...” (Water Rights, 1995). Furthermore, the Water Management Board found if increased cost or decreased production as a result of impacts on artesian head pressure by legitimate users is to be considered as an unlawful impairment, it would also conflict with SDCL 46-1-4 (Water Rights, 1995). With that in mind, some existing well owners may need to install or lower pumps depending on the specific

characteristics of the Big Sioux: Brookings aquifer at their location. However, when considering the statutes (SDCL 46-1-4 and 46-6-6.1), rules (ARSD 74:02:04:20(6) and (7)), the saturated aquifer thickness near the diversion point, the lack of well interference complaints for adequate wells completed into the Big Sioux: Brookings aquifer in Hamlin County (Water Rights, 2022e), and the wells have been in use for some time without reported issue, any drawdown created from the diversion is not expected to cause an unlawful impairment on existing water right/permit holders or domestic users with adequate wells. Therefore, there is a reasonable probability that any interference from the proposed appropriation will not impose unlawful impairments on existing users with adequate wells.

CONCLUSIONS:

1. Water Permit Application No. 8669-3 proposes to irrigate an additional 66 acres from two existing wells completed into the Big Sioux: Brookings aquifer using the wells and diversion rate authority currently authorized by Water Right No. 2528-3. The site of interest is located approximately 7 miles south of Castlewood, SD.
2. Water Permit Application No. 8669-3, if approved, and Water Right No. 2528-3 will authorize a combined total of 1.11 cfs for irrigation of 191 acres.
3. Based on observation well data and the hydrologic budget, there is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to supply the proposed appropriation.
4. There is a reasonable probability that the diversion by Water Permit Application No. 8669-3 will not unlawfully impair adequate wells for existing water rights/permits and domestic uses.



Tyler Jensen
Natural Resources Engineer I
SD DANR - Water Rights Program



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

References

Hamilton, L.J., 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota: Water-Resources Investigation Report 88-4185. USGS, Huron, South Dakota: U.S. Geological Survey.

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- Water Rights, 2022d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2022e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

LOCALiQ

Aberdeen News
Watertown Public Opinion

PO Box 630567 Cincinnati, OH 45263-0567

PROOF OF PUBLICATION

Water Rights Program
Ronald Jongeling
45950 191st ST
Castlewood SD 57223-6001

RECEIVED

JAN 10 2023

**OFFICE OF
WATER**

STATE OF SOUTH DAKOTA, COUNTY OF CODINGTON

The Watertown Public Opinion is, and during all the times hereafter mentioned was, a daily legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4, as amended, published at Watertown, Codington County, South Dakota, by Watertown Public Opinion; that the notice, order or advertisement, a printed copy of which is attached, was published in said newspaper in the issue dated:

12/28/2022

and that the fees charged are legal.
Sworn to and subscribed before on 12/28/2022

Legal Clerk

Notary, State of WI, County of Brown

My commission expires

Publication Cost: \$51.48

Order No: 8219243

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Please do not use this form for payment remittance.

SARAH BERTELSEN
Notary Public
State of Wisconsin

**NOTICE OF
APPLICATION NO. 8669-3
to Appropriate Water**

Notice is given that Ronald Jongeling, 45950 191st St, Castlewood SD 57223 has filed an application for a water permit to irrigate an additional 66 acres. Water Right No. 2528-3 authorizes 1.11 cubic feet of water per second (cfs) from two wells completed into the Big Sioux: Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 125 acres located in the S 1/2 NE 1/4, N 1/2 SE 1/4 Section 1; all T113N-R52W. This application proposes to irrigate an additional 66 acres located in the SE 1/4 Section 1-T113N-R52W from the two existing wells described above. This application, if approved, and Water Right No. 2528-3, combined, will authorize a total of 1.11 cfs for irrigation of 191 acres. This site is located approximately 7 miles south of Castlewood SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8669-3 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 January 9, 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://dohr.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 January 29, 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 Dec. 28, 2022, at the total approximate cost of \$51.48 and may be viewed free of charge at www.sdpublicnotices.com
8219243

RECEIVED

Form 8

DEC 27 2022

OFFICE OF
WATER

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hamlin) SS

I, Shelene Dupel

certify that the attached printed Notice was taken

from the Hamlin

County Republican

printed and published in Castroville

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Dec 21, 2022

Cost of Printing 43.19

Shelene Dupel
(Signature)

Owner
(Title)

12-21-2022
(Date Signed)

NOTICE OF APPLICATION
NO. 8669-3 TO
APPROPRIATE WATER

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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 January 9, 2023.

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Published Dec. 21, 2022, at total cost of \$43.19 and may be viewed online free at www.sdpublicnotices.com

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, December 19, 2022 1:00 PM
To: Watertown Public Opinon (legals@thepublicopinion.com)
Subject: FW: 8669-3, Ronald Jongeling
Attachments: 8669-3public.short_final.docx; FORM8.FRM.doc

From: Schlaak, Karen
Sent: Monday, December 19, 2022 12:59 PM
To: Hamlin County Publishing (hcp@itctel.com) <hcp@itctel.com>
Subject: 8669-3, Ronald Jongeling

Attached is a notice to be published on December 28, 2022.

Ronald Jongeling, 45950 191st St, Castlewood SD 57223, (605 873-2853) 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>



Schlaak, Karen

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Tuesday, December 27, 2022 12:52 PM
To: Schlaak, Karen
Subject: RE: [EXT] 8219243 NEED PAYMENT FW: 8669-3, Ronald Jongeling

Unfortunately we are past deadline for revisions.

From: Schlaak, Karen <Karen.Schlaak@state.sd.us>
Sent: Tuesday, December 27, 2022 12:47 PM
To: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Subject: RE: 8219243 NEED PAYMENT FW: 8669-3, Ronald Jongeling

Can I have a change made on this notice?

Paragraph 5, end of last sentence, change the date January 29, 2023 to January 9, 2023.

Let me know. Thanks
Karen

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Monday, December 19, 2022 2:01 PM
To: Schlaak, Karen <Karen.Schlaak@state.sd.us>
Subject: RE: [EXT] 8219243 NEED PAYMENT FW: 8669-3, Ronald Jongeling

Greetings,

Please find attached your order confirmation and proof of the ad. **Please note that prepayment is required.**

Your ad is set to run in: The Public Opinion on 12/28/22 with a cost of \$51.48

The total cost includes an affidavit, which will be mailed to you after the ad publishes. **Please call 844-254-5287 by 11 am Friday, Dec. 23, 2022 for PAYMENT of the ad in order to run. Anybody who answers can assist with payment.** You may reference ad# **8219243**. You will be able to receive an affidavit 7-10 business days after the last day of printing.

Thanks,

Diana Tope
Public Notice Representative

 
Office: 844-254-5287

From: Schlaak, Karen <Karen.Schlaak@state.sd.us>
Sent: Monday, December 19, 2022 2:00 PM
To: SD-Watertown Legals <legals@thepublicopinion.com>
Subject: 8219243 NEED PAYMENT FW: 8669-3, Ronald Jongeling

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, December 19, 2022 12:59 PM
To: Hamlin County Publishing (hcp@itctel.com)
Subject: 8669-3, Ronald Jongeling
Attachments: 8669-3public.short_final.docx; FORM8.FRM.doc

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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>



Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, December 19, 2022 2:32 PM
To: cheryl@itctel.com
Subject: Water Permit Application No. 8669-3
Attachments: 4514.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(s) as soon as possible to authorize publication and arrange for payment. This information is being mailed to you tomorrow.

LeeAnn with Hamlin Co Republican emailed me and said they are not running a paper on the 28th, but she could get the notice in the paper this week on the 21st. I told her that would be okay. Be sure to see the information regarding contacting the Watertown Public Opinion.

Merry Christmas!

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 NEWSPAPERS RIGHT AWAY.**

December 19, 2022

Ronald Jongeling
45950 191st
Castlewood SD 57223

Dear Mr. Jongeling:

Water Permit Application No. 8669-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Hamlin County Republican printed at Castlewood (Ph # 605 793-2293) and the Watertown Public Opinion printed at Watertown (see attachment for contact number). You will need to contact the newspapers 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 newspapers to authorize publication of your Notice and to arrange for payment. Early contact with the papers can eliminate delays. Upon receiving authorization from you, the publishers have been instructed to publish your notice. The newspapers have 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.

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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 January 19, 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_



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JAN 19 2023

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed is Water Permit No. 8669-3 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



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STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

**Affidavit of Public Notice
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.: 8669-3

Name of Applicant: Ronald Jongeling

Date of Posting: 12/27/2022

Date of Removal: 1/19/2023



Ron Duvall, Water Rights Permitting Administrator

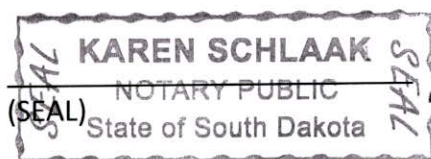
1/19/23

Date

Subscribed and sworn to before me, a notary public, this 19th day of Jan, 2023.



Notary Public - South Dakota
My commission expires: 4/1/2025





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

April 11, 2024

8669-3

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

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 water use system.

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,

Amanda Dewell
Water Rights Program
(605) 773-3352
email: Amanda.Dewell@state.sd.us

**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**

Date 04-06-2024

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

FROM: Ronald Jongeling
(name)
115950 191st St
(address)
Castlewood SD 57223
(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. 8669-3 states that the water use system is to be constructed by 01-09-2021, and water is to be put to beneficial use by 01-09-2032.
(date) (date)

The water use system was completed on 06-01-2023.
(date)

Applying the water to beneficial use was completed on 06 01 - 2023.
(date)

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

Ronald Jongeling
(signature)

RECEIVED

APR 10 2024

OFFICE OF
WATER





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

July 25, 2024

2528-3
8669-3

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Water Permit No. 8669-3 authorized the irrigation of 66 additional acres, to what had already been developed under Water Right No. 2528-3, for a total of 191 acres, irrigated by two wells completed into the Big Sioux: Brookings Aquifer.

An inspection was recently conducted by a Water Rights Program staff engineer, for the purpose of licensing the irrigation system. The inspection found that while Water Right No. 2528-3 and Permit No. 8669-3 authorized the irrigation of 191 acres, 200 acres had actually been developed for irrigation. Due to the over development of the irrigation systems, permitting for the additional acres is required. (see enclosed map)

Water Permit No. 8669-3 and Water Right No. 2528-3 authorize a combined diversion rate of 1.11 cfs (500 GPM). The statutory limit on the diversion rate, for the irrigation of 200 acres is 2.86 cfs (1280 GPM). If, at this time you would like to request a higher diversion rate than what you are currently authorized for, the fees due would not change.

Please find also enclosed, a partially completed irrigation permit application for the over developed acres. The inspection and licensing fee of \$200.00 will be waived, as it has already been paid under Permit No. 8669-3. Fees due for this new application will be \$500.00.

Checks can be made payable to the SD Water Rights Program or payment can be made over the phone by calling our Fiscal Office at (605) 773-5559.

If you have any questions or concerns, please call me at (605) 910-5187.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
Amanda.Dewell@state.sd.us

enclosures

WATER RIGHTS PROGRAM -- FILE DOCUMENTATION

NAME & ADDRESS: Ronald Jongeling – Castlewood SD

DATE: 07/31/2024

TELEPHONE: 605.881.5812

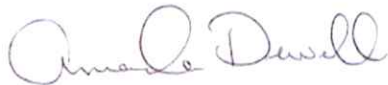
RE: Increase in diversion rate & acres

COMMENTS:

After receiving my letter dated July 25, 2024, Ronald called me to discuss the additional permitting. He agreed that the number of acres represented on the map created by Darrell DeBoer were accurate and had no concerns with additional permitting to cover the over developed acres.

He also mentioned that at the beginning of each season, he was able to pump water at a higher rate than the 1.11 cfs permitted, but that water withdrawals slowed at the season progressed. Ronald indicated that he'd expressed these concerns to Darrell.

While Darrell used the Irrigation Questionnaire reports to determine the pump rate on his inspection, I asked Mr. Jongeling to apply for the difference (between his current authorized rate, and the peak pump rate) on this application. No licensing and inspection fee would be required, as this determination was made w/o the need for additional inspection.



Amanda Dewell
Water Rights Program