

WATER PERMIT NO. 8462-3

Name of Applicant: Ace Ready Mix

Address: 350 S Main Ave, Suite 400, Sioux Falls SD 57104

Phone: 605 929-4017

Amount of Water Claimed: 0.44 cfs Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: industrial County: Minnehaha

Type of Waste Disposal System:

Location: east side of Sioux Falls off I 229

PRIORITY Date Received: 12-14-20

Application/License Fee: \$ 700

Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SE 1/4 NW 1/4 Sec 11-T101N-R49W

Land to be Irrigated: NA

Depth of Well: 62 feet deep

Well Driller:

Remarks:

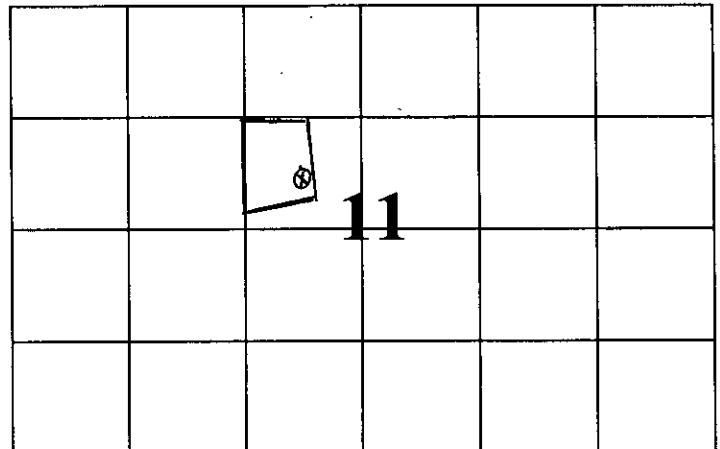
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 12-14-20

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 8462-3**

Date of first receipt of application December 14, 2020.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8462-3 to Ace Ready Mix, c/o Chris Klein, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 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. 8462-3 appropriates 79.8 acre-feet of water annually at a maximum pump rate of 0.44 cubic feet of water per second from one well to be completed into the Big Sioux:South Aquifer (approximately 62 feet deep) located in the SE 1/4 NW 1/4 Section 11 for industrial use at a facility located in the SE 1/4 NW 1/4 Section 11; all in T101N-R49W. This site is located on the east side of Sioux Falls off Interstate 229.
2. The water appropriated shall be used for the purpose of industrial use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 8462-3 is March 1, 2021.
5. The date from which applicant may claim right is December 14, 2020.
6. One-fifth of the construction is to be completed on or before September 1, 2023.
7. All construction is to be completed on or before March 1, 2026.
8. Water is to be put to beneficial use on or before March 1, 2030.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Water Permit No. 8462-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8462-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. The permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux South aquifer.
4. Water Permit No. 8462-3 authorizes a total annual diversion of 79.8 acre feet of water.

WATER MANAGEMENT BOARD

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

APR 06 2021
date



PAID

DEC 14 2020

Ck# 238537

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8462-3</u>	(office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Argus Leader</u>	

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

Check use(s) of water:

☐ Municipal	☐ Water Distribution System	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal
☐ Domestic (over 18 gpm)	☒ Industrial	☐ Other _____	

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 Ace Ready Mix c/o Chris KleinMailing Address 350 S Main Ave, Suite 400 Sioux Falls SD 57104
(Address) (City) (State) (Zip Code)Phone 605-330-6570 Mobile 605-929-4017 Email cmklein@lgeverist.com2. Amount of water claimed 0.44 *CFS or 200 **GPM and 79.8 ***AF or 26M 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 Well4. Location of point of diversion See Map County Minnehaha
(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 ☒ NoIf "Yes," where will water be used? SE 1/4 NW 1/4 Sec 11 - T101N - R49W
(example - NW1/4 section 12-T104N-R53W)5. County or counties where water will be used Minnehaha6. Annual period during which water is to be used January through December

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)

Water will be drawn to be used in batching of concrete.

RECEIVED

DEC 14 2020

WATER RIGHTS
PROGRAMI, Chris Klein

Name of Person

Mine Planning/Regulatory Mgr, the applicant, certify under
Title (if applicable)

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

Supplemental Information

(type or print)

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

a) If new wells, how many 1 Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either Existing or Proposed Wells:

c) Well Depth (required) 62' Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____

d) Distance to nearest domestic well on applicant's property 2,000' Property owned by others N/A

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

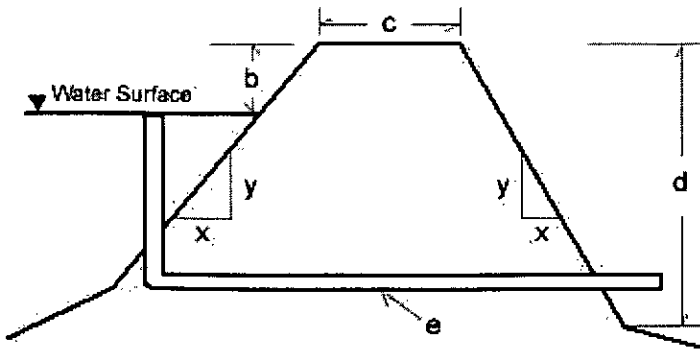
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres





PROPERTY BOUNDARY



SECTION LINE



T101N R49W SEC 11, MINNEHAHA COUNTY

SIoux FALLS, SD - ACE READY MIX
LOCATION OF WATER RIGHT DIVERSION



L. G. EVERIST, INC.
We Deliver Solutions!
SIoux FALLS, SD

DRAWN BY C. KLEIN
SCALE NTS
DATE 12/03/2020

DRAWING NO.

1

REV



RECEIPT

WATER RIGHTS PROGRAM

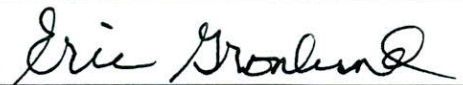
South Dakota Department of Environment and Natural Resources

Date December 14, 2020

RECEIVED OF Ace Ready Mix 350 S Main Suite 400 Sioux Falls SD 57104

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

Fee for Application for Permit No. <u>8462-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$850.00
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$
Fee to retain Future Use Permit No. _____ after period of seven years.	\$
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8462-3</u>	\$200.00
Fee for Filing Transfer Form _____	\$
Fee for _____	\$
Fee for Issuing New Well Driller's License No. _____	\$
Fee for Renewal of Well Driller's License No. _____	\$
Fee for Issuing Well Pump Installer's License No. _____	\$
Fee for Renewal of Well Pump Installer's License No. _____	\$
(Any Other Work Provided by Law)	
TOTAL	\$1050.00

By 
Chief Engineer




DENR
SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8462-3, Ace Ready Mix**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 8462-3, Ace Ready Mix, c/o Chris Klein, 350 S. Main Ave., Sioux Falls SD 57104.

The Chief Engineer is recommending APPROVAL of Application No. 8462-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and, 4) it is in the public interest with the following qualifications:

1. The well approved under Water Permit No. 8462-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8462-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. The permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux South aquifer.
4. Water Permit No. 8462-3 authorizes a total annual diversion of 79.8 acre feet of water.

See report on application for additional information.

Eric Gronlund, Chief Engineer
February 5, 2021

REPORT TO THE CHIEF ENGINEER

Water Permit Application No. 8462-3

Ace Ready Mix c/o Chris Klein

February 8, 2021

Water Permit Application No. 8462-3 proposes to appropriate 79.8 acre-feet of water annually at a maximum diversion rate of 0.44 cubic feet per second (cfs) from one well. The proposed well is to be completed into the South management unit of the Big Sioux aquifer with an approximate depth of 62 feet and located in SE ¼ NW ¼ Section 11 T101N-R49W. The water will be used for industrial purposes in a concrete batch plant located in SE ¼ NW ¼ Section 11 T101N-R49W. This application is located approximately 0.4 miles east of I-229 and 275 feet north of E Rice Street on the northeast side and within the city limits of Sioux Falls, SD in Minnehaha County.

AQUIFER: Big Sioux: South (BS:S)

Hydrogeology

The South management unit of the Big Sioux aquifer is a surficial, glacial outwash deposit consisting of materials ranging from fine sand to coarse gravel (Lindgren and Niehus, 1992). The Big Sioux: South aquifer primarily underlies the floodplain of the Big Sioux River. The Big Sioux: South aquifer underlies 49,000 acres in Lincoln, Minnehaha, and Union Counties, with 17,200 of those acres in Minnehaha County. Recoverable water in storage in the Big Sioux: South aquifer was estimated to be 163,740 ac-ft (Hedges et al., 1982). The Big Sioux aquifer in Minnehaha County averages 22 feet in thickness and is primarily under water-table conditions (Lindgren and Niehus, 1992). For the purposes of administering water rights, the Water Rights Program has relied upon the boundaries established by Hedges et al. (1982) for the Big Sioux South aquifer, which may include portions of other nearby aquifers identified by Lindgren and Niehus (1992). Additional lithologic and hydrogeologic data may further refine these boundaries in future analyses.

No test hole or well information was submitted with the application. Nearby lithologic logs show a variable lithology in the area. Some logs indicate approximately 40 feet of sand with some gravel, and one indicates just two feet of sand and gravel (SD Geologic Survey, 2021).

South Dakota Codified Law 46-2A-9

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

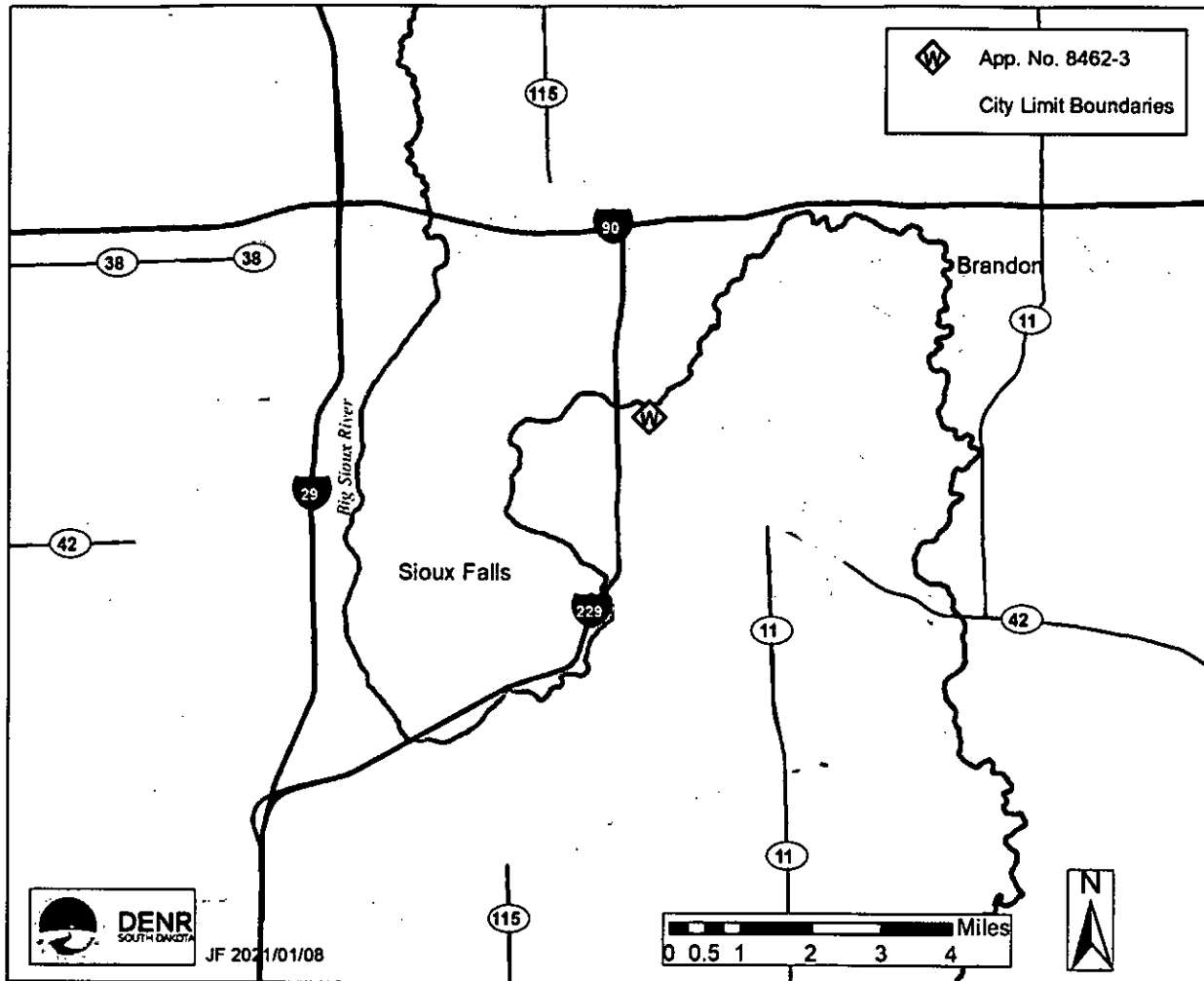


Figure 1. Map showing the location of the proposed diversion.

Water Availability

The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.” If the source of the water is older than or stratigraphically lower than the Greenhorn Formation and a water distribution system as defined by SDCL 46-1-6(17) has applied for a permit, the Board need not take into consideration the balance of aquifer recharge and withdrawal. Here, the water source is not older or lower than the Greenhorn Formation and a water distribution system is not involved. Therefore, the balance of aquifer recharge and withdrawal must be taken into consideration.

Hydrologic Budget

Recharge

Recharge to the Big Sioux aquifer in Minnehaha County occurs through infiltration of precipitation, seepage from the Big Sioux River when the river stage is higher than the water table, and inflow from the “Skunk Creek, Beaver Creek, Brandon, Split Rock Creek, Wall Lake,

and Sioux Quartzite aquifers” (Lindgren and Niehus, 1992). Note that some of these aquifers identified by Lindgren and Niehus (1992) are currently not used or are managed as parts of other aquifers. Hedges et al. (1985) calculated the recharge to the Big Sioux: South through analysis of the observation well data to be 4.1 inches per year. The estimated average annual recharge to the Big Sioux: South aquifer is 5,877 ac-ft in Minnehaha County alone, and 16,742 ac-ft for the entirety of the management unit.

Discharge

Discharge from the Big Sioux: South aquifer occurs through evapotranspiration where the aquifer is at or near the land surface, seepage to the Big Sioux River when the river stage is lower than the water table, and by well withdrawals (Lindgren and Niehus, 1992). Currently, there are 63 water rights/permits appropriating water from the Big Sioux: South aquifer including the two future use permits (Water Rights, 2021a). Table 1 shows a summary of non-irrigation water rights/permits with their appropriation and estimated annual expected use. The amount of water that can be expected to be withdrawn can be estimated by assuming water rights/permits limited by an annual volume will pump the entire volume appropriated annually, water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time, and future use permits will be fully developed.

Table 1: Summary and expected use of non-irrigation water rights/permits including future use permits (Water Rights, 2021a)

PERMIT NO.	NAME	COUNTY	STATUS	USE	CFS	ESTIMATED ANNUAL PUMPAGE (AC-FT)
686-3	RICHARD T PETERSON	MA	LC	IRR/COM	0.11	+
1139-3	TOWN OF HUDSON	LN	LC	MUN	0.71	*
1262B-3	CITY OF CANTON	LN	LC	MUN	0.22	95.56
1618-3	CONCRETE MATERIALS	MA	LC	COM	1.0	434.38
1908-3	VALLEY VIEW MOBILE HOME PARK	MA	LC	COM	0.1	43.44
3454-3	LINCOLN COUNTY RWS	LN	LC	RWS	0.5	217.19*
4002-3	CITY OF BRANDON	MA	FU	MUN	N/A	685
4792-3	L G EVERIST INC	MA	LC	COM	1.0	434.38
4842-3	BRANDON MATERIALS CO	MA	LC	IND	1.11	+
4883-3	CITY OF HARRISBURG	LN	LC	MUN	0.5	*
5133-3	CONCRETE MATERIALS	MA	LC	COM	0.04	17.38
5242-3	CITY OF SIOUX FALLS	MA	LC	IND	1.56	110 ^{av}
5517-3	ZOOLOGICAL SOCIETY OF SIOUX FALLS	MA	LC	COM	0.03	13.03
5591-3	AMOCO CORPORATION	MA	LC	GWR	0.16	69.50
5684-3	GREAT PLAINS ZOO/MUSEUM	MA	LC	COM	0.067	29.10
5755-3	AMOCO CORPORATION	MA	LC	GWR	0.24	104.25
5842-3	MICHAEL DALE COUGHLIN	MA	LC	COM	0.02	8.70
5869-3	CITY OF BRANDON	MA	LC	MUN	0.78	338.82
6093-3	LYON & SIOUX RWS INC	LN	LC	RWS	1.33	530 ^{av}
6423-3	POET BIOREFINING – HUDSON LLC	LN	LC	IND	1.78	1000 ^{av}
6696-3	CITY OF BRANDON	MA	FU	MUN	N/A	1227.7
6924-3	LINCOLN COUNTY RWS	LN	PE	RWS	2.5	1344 ^{av*}
7181-3	CITY OF BRANDON	MA	LC	MUN	N/A	N/A
7203-3	LINCOLN COUNTY RWS	LN	PE	RWS	N/A	N/A
7787-3	L G EVERIST INC	MA	PE	IND	0.17	70 ^{av}
8366-3	GAGE BROTHERS	MA	PE	IND	0.44	10.4 ^{av}
SUMMARY						
26	No. of Non-Irrigation Water Rights/Permits		Non-Irrigation Estimated Annual Pumpage			6782.83
LN = Lincoln County, MA = Minnehaha County						
LC = Water Right, PE = Water Permit, FU = Future Use						
COM = Commercial, DOM = Domestic, GWR = Groundwater Remediation, IND = Industrial, IRR = Irrigation, LCO = Livestock Confinement Operation, MUN = Municipal, RWS = Rural Water System						
^{av} = Limited to an annual volume, * = Connected to a Rural Water System full time, + = likely subject to cancellation, and not tabulated, N/A = Not Applicable						

In addition, Water Right No. 4842-3, held by Brandon Materials Co. for industrial use, is likely subject to cancellation as the gravel operation at that location has ceased operation, and the land is now subdivided. Water Right No. 686-3 is also likely subject to cancellation as it is for irrigation and commercial use at a golf course and club house that have ceased operating.

Five of the non-irrigation water rights/permits are required to report their annual water use from the Big Sioux: South aquifer (Table 2), however for the purposes of this report, their estimated use (Table 1) is being used in the hydrologic budget instead of their average reported annual use. These five non-irrigation water rights/permits are limited to an annual volume and their estimated use is their annual volume limit. If their reported average annual water use was

calculated, the estimated use based upon their reported use would be less than their annual volume limit.

Table 2: Non-Irrigation Water Rights/Permits that are required to report their annual use from the Big Sioux: South aquifer (Water Rights, 2021a)

Permit No.	Status	Use	Name
6093-3	Licensed	Rural Water	Lyon & Sioux RWS Inc
6423-3	Licensed	Industrial	POET Biorefining - Hudson LLC
6924-3	Permitted	Rural Water	Lincoln County RWS
7787-3	Permitted	Industrial	L G Everist Inc
8366-3	Permitted	Industrial	Gage Brothers

There are a number of domestic wells on file that withdraw water from the Big Sioux: South aquifer, however the magnitude of their withdrawals is small, and since the introduction of rural water systems and the expansion of municipal water systems in the area, many of these wells may no longer be in use (Water Rights, 2021b). The annual quantity of water withdrawn for domestic uses is considered to be negligible to the hydrologic budget of the aquifer.

Currently, there are 38 water rights/permits permitted for irrigation (Water Rights, 2021a). Of the 38 irrigation water rights/permits, 37 submitted their irrigation questionnaire in 2019 (Water Rights, 2021d). Water Right No. 686-3 has not submitted an irrigation questionnaire since 2004 and is likely subject to cancellation as the golf course has ceased operating.

These irrigation water rights/permits appropriated 10,590 ac-ft of water for the 2020 irrigation season, however the actual usage is much less. Estimation of the average annual use from irrigation is typically calculated by summing the reported usage from the irrigation questionnaires and then averaging the yearly usage over the period of record. Recently, a number of factors came together and increased the number of irrigation permit applications above the long term average and, as such, the average over the period of record no longer reflects the current level of permitted acres. In the early 1980's, a large number of water permits/rights were cancelled or were more accurately assigned water sources, rendering the irrigation questionnaire summaries for those years to be suspect without further substantial research. For this analysis, the period of record is 1979 to 2019. However, the time periods of 1983 to 2012 and 2013 to 2019 will be calculated separately. Over the period of record, the average total appropriation for irrigation was 9,474 ac-ft/yr and reported irrigation use was 1,098 ac-ft/yr (Water Rights, 2021d). The period of 1983 to 2012 saw an average total appropriation for irrigation of 8,979 ac-ft/yr and reported irrigation use was 1,117 ac-ft/yr. The most recent period of 2013 to 2019 saw an average total appropriation for irrigation of 10,548 ac-ft/yr, and the average reported irrigation use was 1,283 ac-ft/yr. Assuming that the period of 2013 to 2019 better reflects the current irrigation usage of the Big Sioux: South aquifer, the estimated average annual use for irrigation is 1,283 ac-ft/yr.

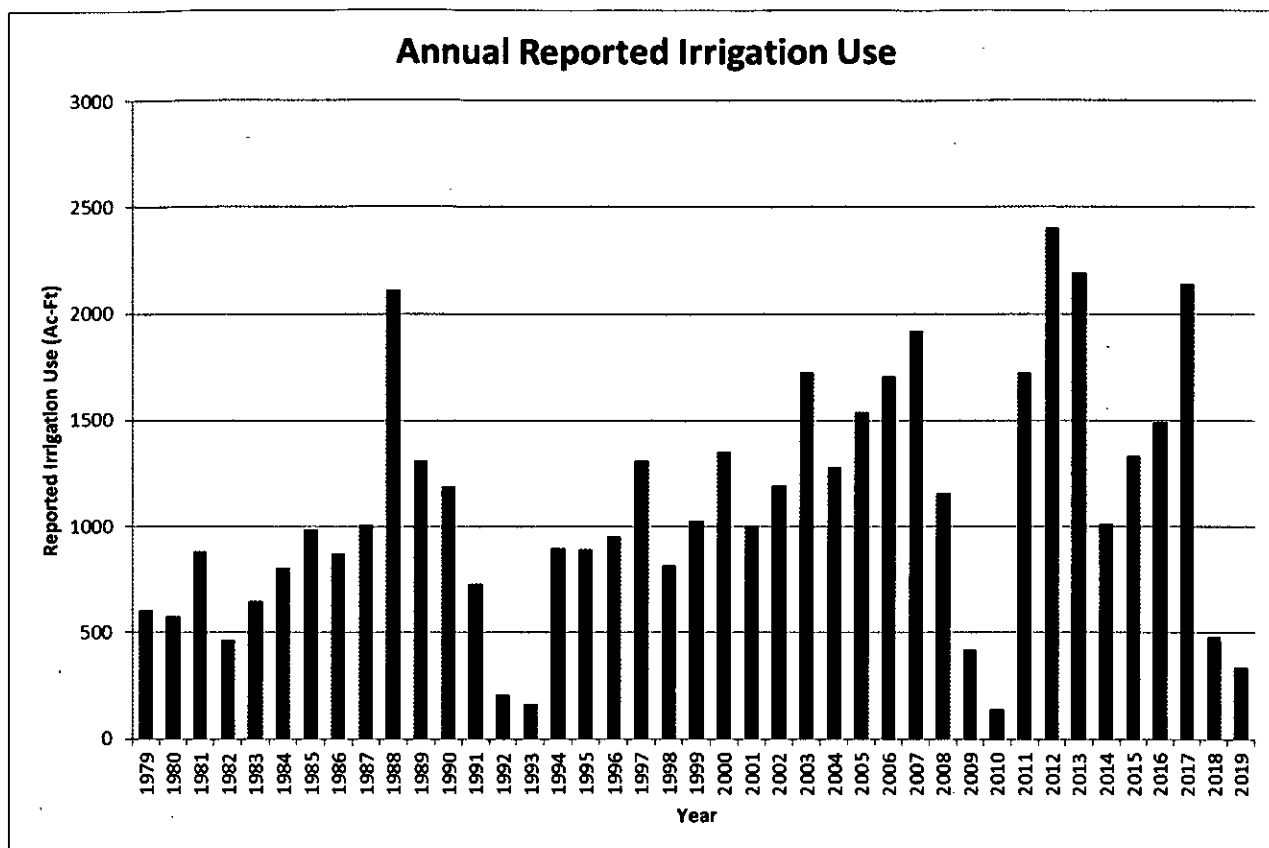


Figure 2: Reported irrigation use from the Big Sioux: South aquifer (Water Rights, 2021d)

Hydrologic Budget

The estimated withdrawals from the Big Sioux: South aquifer are 6,783 ac-ft/yr from non-irrigation users, and 1,283 ac-ft/yr from irrigation. Including the 79.8 ac-ft/yr proposed by this application, the estimated average annual withdrawal from the Big Sioux: South aquifer is 8,145.8 ac-ft/yr. The estimated average annual recharge to the Big Sioux: South aquifer is 16,742 ac-ft/yr. As the estimated average annual withdrawals are approximately half of the estimated average annual recharge, there is a reasonable probability there is unappropriated water available from the Big Sioux: South aquifer for the proposed appropriation.

Observation Well Data

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

The Water Rights Program currently monitors 15 observation wells completed in the Big Sioux: South aquifer (Water Rights, 2021c). The nearest observation well is MA-80AA, located approximately 0.3 miles north-northwest of the proposed well location. Following the aquifer down the Big Sioux River, observation well MA-80EA is 4 miles northeast of the proposed well location, MA-80FA is 4.5 miles northeast, MA-80GA is 4.8 miles northeast, MA-75A is 5 miles

east-northeast, MA-75C is 4.8 miles east-northeast, and MA-80C is 4.9 miles southeast. The remainder of the Big Sioux: South observation wells are located in Lincoln and Union Counties.

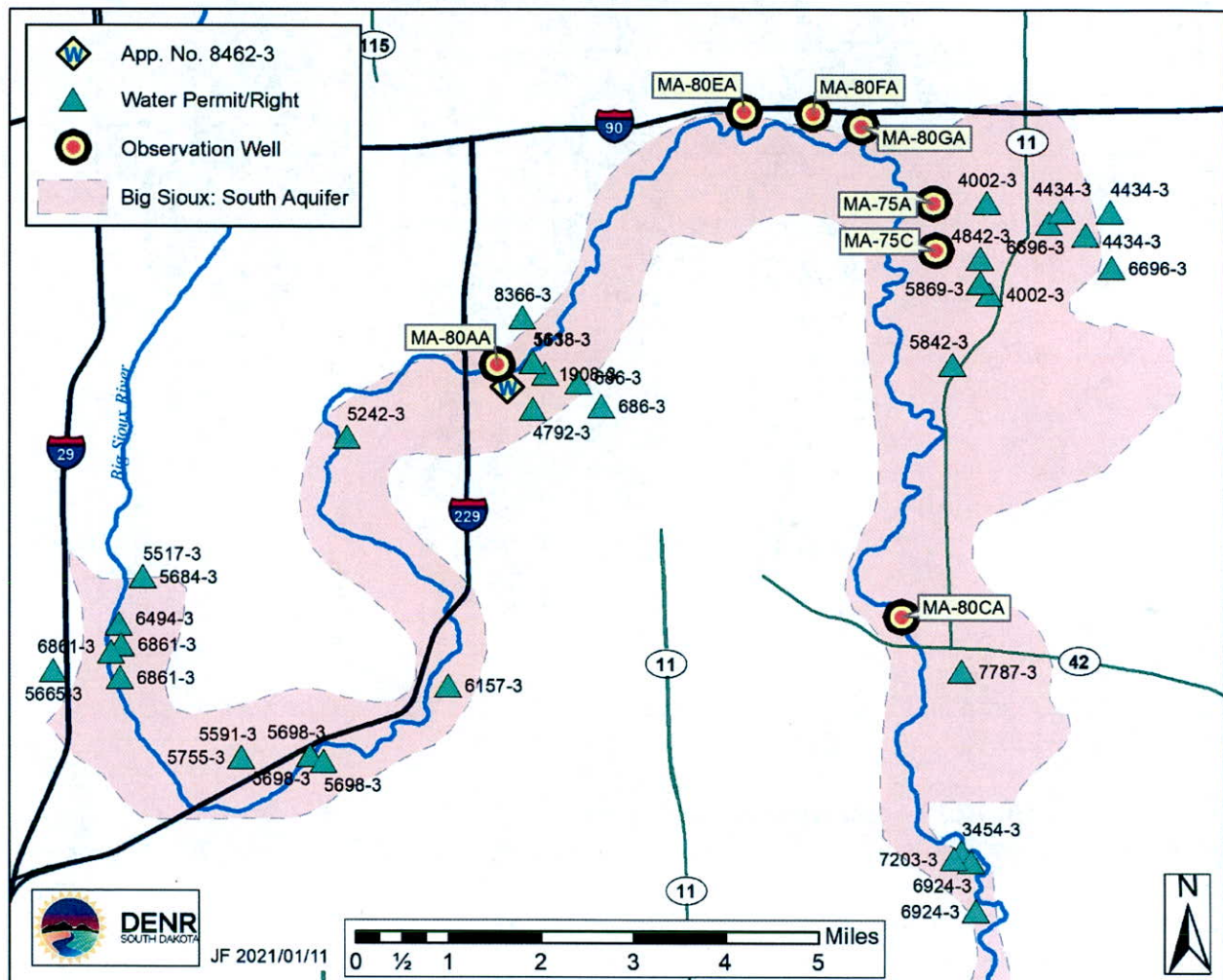


Figure 3. Map showing the approximate boundary of the Big Sioux: South aquifer, location of nearby observation wells, and water rights/permits in the Big Sioux: South aquifer (Hedges et al., 1982; Water Rights, 2021a; Water Rights, 2021c)

The hydrographs for these observation wells are shown in Figure 4. These observation well hydrographs are representative of the Big Sioux: South aquifer. The hydrographs show that the aquifer responds well to hydrologic conditions, recharging during wetter periods and declining during drier periods. The observation well measurements show that the effects from seasonal changes in hydrologic conditions and pumping are temporal, and that the aquifer generally returns to a level consistent with the Big Sioux River. The observation well data indicates there is a reasonable probability there is unappropriated water available from the Big Sioux: South aquifer.

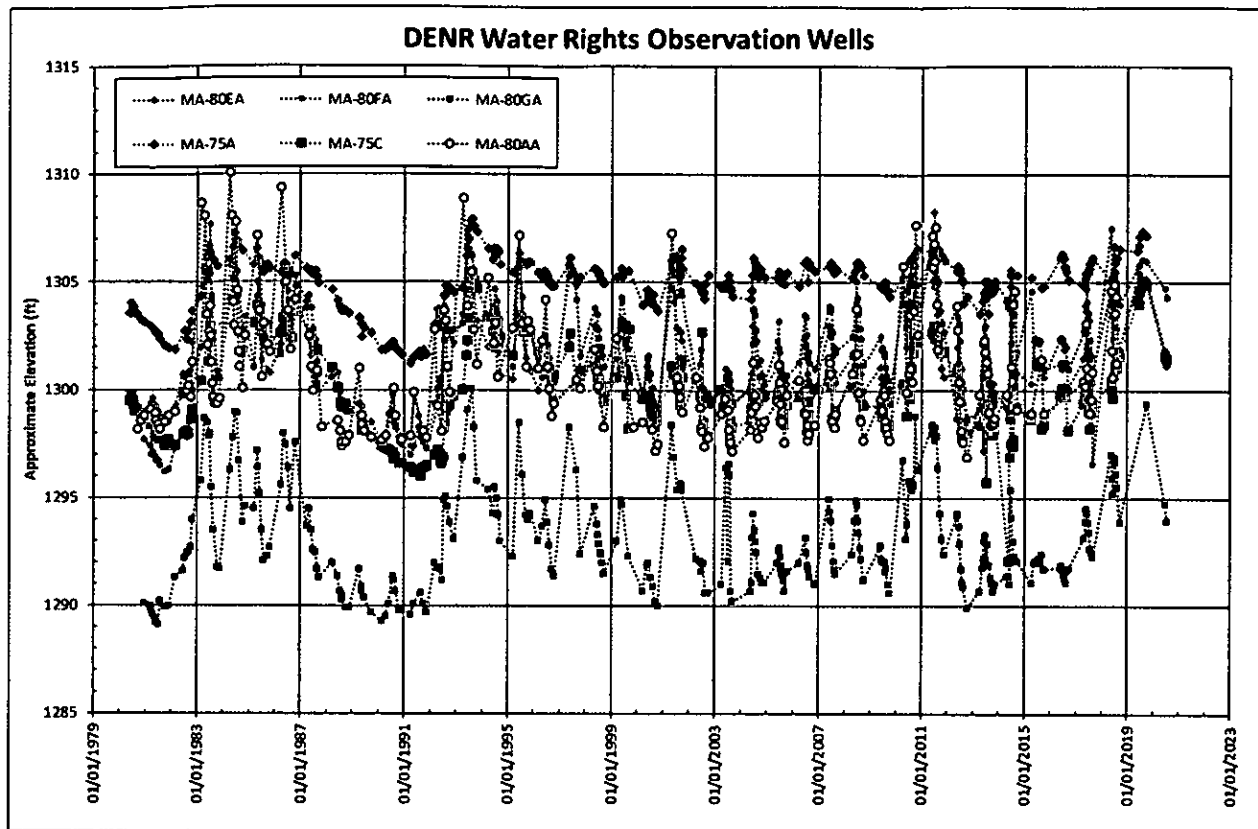


Figure 4: Hydrographs for Big Sioux: South Observation Wells in Minnehaha County, SD (Water Rights, 2021c)

Potential for unlawful impairment of existing water rights

There are 63 water rights/permits appropriating water including 2 future use permits reserving water from the Big Sioux: South aquifer (Water Rights, 2021a). The location of the diversion points for water rights/permits authorized to withdraw water from the Big Sioux: South aquifer in the vicinity of this application are shown in Figure 3. The nearest existing water right/permit is held by L.G. Everist, Inc. and is located 0.37 miles to the southeast of the applicant's proposed diversion location. Given the hydraulic connection of the Big Sioux: South aquifer to the Big Sioux River and the proposed diversion rate, this application, if approved, is not expected to adversely impact existing water rights/permits.

The Big Sioux: South aquifer is primarily under unconfined conditions and due to the behavior of unconfined aquifers, drawdown from well withdrawals within unconfined aquifers is generally not significant at distances far from the pumping well. Examination of the hydrographs of observation wells completed into the Big Sioux: South aquifer show no signs of being significantly impacted by drawdown caused by pumping. Even though there are a number of high capacity wells in the Big Sioux: South aquifer, there has not been a history of well interference. This application, if approved, is not expected to unlawfully impair nearby adequate wells.

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

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

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

The Big Sioux: South aquifer is a relatively thin aquifer with a limited amount of water in storage. While the average annual withdrawal from the aquifer would not exceed the average annual recharge to the aquifer, hydrologic conditions may occur where the withdrawal from the aquifer exceeds the recharge to the aquifer. When this occurs, water is removed from storage and the saturated thickness of the aquifer is reduced. If the saturated thickness is reduced to the extent that existing water rights/permits can no longer pump at their developed or “historically established” diversion rates, this may be considered an unlawful impairment. If approved, the water permit should include a qualification that the well owner should control their withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

Conclusions

1. Water Permit Application No. 8462-3 proposes to appropriate 79.8 acre-feet of water annually at a maximum diversion rate of 0.44 cubic feet per second (cfs) from one well to be completed into the Big Sioux: South aquifer in Minnehaha County.
2. Based on observation well data and the hydrologic budget, there is a reasonable probability that unappropriated water is available from the Big Sioux: South aquifer.
3. There is a reasonable probability that the diversion proposed by this application will not unlawfully impair adequate wells for existing water rights and domestic uses.



John Farmer
SD DENR – Water Rights Program

References

- Hedges, L.S., Allen, J. and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 7: Ground-Water Recharge. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- 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.
- Lindgren, R.J., and Niehus, C.A., 1992. Water Resources of Minnehaha County, South Dakota. USGS Water-Resources Investigations Report 91-4101. USGS. Rapid City, SD.
- SD Geological Survey. 2021. Lithologic Logs Database. SD DENR-Geological Survey, Vermillion, SD
- Water Rights. 2021a. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2021b. Well Completion Report Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2021c, "Observation Well Database", SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2021d. Irrigation Questionnaire Database. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, February 8, 2021 1:51 PM
To: 'cmklein@lgeverist.com'
Subject: Water Permit Application No. 8462-3 - Ace Ready Mix
Attachments: 0495.pdf; OrderConf.pdf

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

I have also included a Order Confirmation from the Argus Leader. This information should help when contacting them.

Karen Schlaak
Water Rights Program
(605) 773-3352



Argus Leader

P.O. Box 677349, Dallas, TX 75267-7349

RECEIVED

MAR 01 2021

WATER RIGHTS
PROGRAM

LG EVERIST INC
350 S MAIN AVE STE 400
SIOUX FALLS, SD 57104

Account No.: SFA-050627
Ad No.: 0004593843
PO #: APP NO. 8462-3
Lines : 106
Ad Total: \$70.04
This is not an invoice
of Affidavits 1

Account No.: SFA-050627
Ad No.: 0004593843

Argus Leader AFFIDAVIT OF PUBLICATION

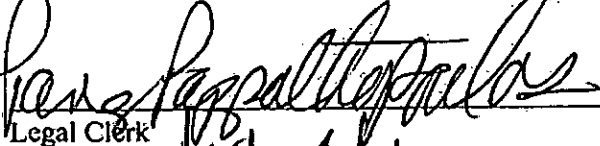
STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA

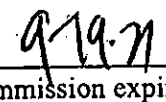
I being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Wednesday, February 17, 2021

Sworn to and subscribed before me this 17 day of February, 2021.


Legal Clerk


Notary Public, State of Wisconsin, County of Brown


My Commission expires

VICKY FELTY
Notary Public
State of Wisconsin

NOTICE OF APPLICATION NO. 8462-3 to Appropriate Water

Notice is given that Ace Ready Mbr, c/o Chris Klein, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 has filed an application for a water permit to appropriate 79.8 acre-feet of water annually at a maximum pump rate of 0.44 cubic feet of water per second from one well to be completed into the Big Sioux-South Aquifer (approximately 62 feet deep) located in the SE 1/4 NW 1/4 Section 11 for industrial use at a facility located in the SE 1/4 NW 1/4 Section 11; all in T101N-R49W. This site is located on the east side of Sioux Falls off Interstate 229.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8462-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3351)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 1, 2021.

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

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on

the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Published once at the total approximate cost of \$70.04.
4520707 Feb. 17, 2021

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, February 8, 2021 12:59 PM
To: 'legals@argusleader.com'
Subject: 8462-3, Ace Ready Mix
Attachments: 8462-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on February 17, 2021.

Ace Ready Mix, c/o Chris Klein, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 (605 330-6570 or 605 929-4017) 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

Water Rights Program
(605) 773-3352





DENR
SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

February 8, 2021

Ace Ready Mix
c/o Chris Klein
350 S Main Ave, Suite 400
Sioux Falls SD 57104

Dear Mr. Klein

Water Permit Application No. 8462-3 for industrial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Argus Leader printed at Sioux Falls SD (Ph # 605 331-2200). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
(605) 773-3352

enclosures

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

NOTICE OF APPLICATION NO. 8462-3 to Appropriate Water

Notice is given that Ace Ready Mix, c/o Chris Klein, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 has filed an application for a water permit to appropriate 79.8 acre-feet of water annually at a maximum pump rate of 0.44 cubic feet of water per second from one well to be completed into the Big Sioux:South Aquifer (approximately 62 feet deep) located in the SE 1/4 NW 1/4 Section 11 for industrial use at a facility located in the SE 1/4 NW 1/4 Section 11; all in T101N-R49W. This site is located on the east side of Sioux Falls off Interstate 229.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8462-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

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

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

Published once at the total approximate cost of_

March 31, 2021

PAYMENT REQUEST FORM

PAYEE: Ace Ready Mix
c/o Chris Klein
350 S Main Ave., Suite 400
Sioux Falls, SD

FROM: DENR Water Rights Program
523 E. Capitol Ave
Pierre, SD 57501-3181

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Over Payment of Water Permit Fee

AMOUNT: \$350.00

FUNDING SOURCE:

GENERAL: X

FEDERAL:

OTHER:

COMMENTS:

AUTHORIZATION: *Eric Ironlund* APR 06 2021

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federal assisted programs.



DENR
SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 06 2021

Ace Ready Mix
c/o Chris Klein
350 S Main Ave, Suite 400
Sioux Falls SD 57104

Dear Mr. Klein:

Enclosed is Water Permit No. 8462-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

An application/license filing fee of \$1,050.00 was submitted with the application. Based on the amount of water claimed, the fee for this permit should be \$700.00. \$350.00 will be refunded to you. The refund check should be received within the next couple of weeks.

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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

8462-3

11-02

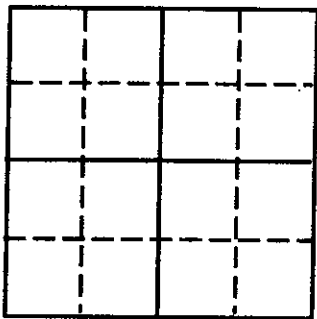
Location $\frac{1}{4}$ $\frac{1}{4}$ Sec Twp Rg

County Minnehaha

See Attached

North

Please mark well location with an "X"



Well completion Date
12-7-20

1 Mile

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? ft. from City Sewer (Identify source)

PROPOSED USE:

- ☐ Domestic/Stock ☐ Municipal ☒ Business ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring

METHOD OF DRILLING:

Rotary

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
100 LB/FT	8 IN	0 FT	62 FT	12 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Grout DF	6	Lb/gal	0 FT	28 FT
		Lb/gal	FT	FT

Describe grouting procedure run 1" trimix line 28'
Pumped w/ shoot machine

SCREEN:

- ☐ Perforated pipe ☒ Manufactured

Diameter 8 Inches Length 30 Feet
 Material Plastic - Johnson Screen
 Slot Size 40 Set From 32 Feet to 62 Feet
 Other information Gravel Pack

WAS A PACKER OR SEAL USED?

- ☐ Yes ☐ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

- ☒ Yes, How? 5 gallons of chlorine
☐ No, Why Not? Pumped

Lab sample sent to for water quality analysis

Well Owner:

Business Name: L J Everist
 Address: 350 S. Main Ave Suite 400
 City, State, Zip: Sioux Falls S.D. 57104

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>Yellow Clay</u>	<u>2</u>	<u>28</u>
<u>Sand + Gravel</u>	<u>28</u>	<u>62</u>
<u>Blue Clay</u>	<u>62</u>	

STATIC WATER LEVEL

28 FEET

If flowing: closed in pressure

PSI

GPM flow

through Inch pipe

Controlled by

- ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

- ☒ Pumped Describe:

- ☐ Bailed
☐ Other

Pumping Level Below Land Surface

42 Ft. After 24 Hrs. pumped 200 GPM
 Ft. After Hrs. pumped GPM

If pump installed, pump rate:

GPM

REMARKS

This well was drilled under license #

439

And this report is true and accurate.

Drilling firm: Dave Putzke well Drilling & repair Inc

Signature of License Representative:

Dave Putzke

RECEIVED

Signature of Well Owner or Equitable Property Holder:

DEC 16 2020

WATER RIGHTS PROGRAM

Date:

Please return **WHITE COPY** to: DENR Water Rights

523 E Capitol Ave. Pierre SD 57501

The well location is in the NW1/4 of Sec 11, Twp 101, Rg 49 of Sioux Falls Township.

Since it is in city limits, the legal is Lot 1 ACE Addn to city of Sioux Falls.

The parcel ID is 012211176006000. The coordinates are 43°34'2.20"N 96°41'4.76"W.

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8462-3

I have this day, August 3, 2021, made a thorough examination of the water use system constructed by Ace Ready Mix, 350 S Main Ave, Suite 400, Sioux Falls, SD 57104 of Permit No. 8462-3, bearing the priority of Dec 14, 2020 authorizing the diversion of 0.44 cu. ft. per second of the waters of the Big Sioux: South Aquifer for industrial purposes, in Minnehaha County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Dave Putzke Well Drilling, Inc
- 2) No. of Wells 1
- 3) Depth(s) 62 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 8 inches
- 2) Length 32 feet
- 3) Type Plastic

Screen:

- 1) Type Plastic – Johnson screen
- 2) Length 30 feet
- 3) Static water level 28 feet

Pump:

- 1) Make NA
- 2) Model Submersible
- 3) Size NA
- 4) Capacity 200 GPM

Motor:

- 1) Make NA
- 2) Model No. NA
- 3) Horsepower rating NA hp

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

- 1) Type _____ 2) Size _____ inches 3) Length _____ feet

Comments: Buried line

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
2) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: From the NW corner of Sec 11 T101N R49W, 2020 ft S & 1745 ft E, Lat 43.56722 Long -96.6847 (SE ¼ NW ¼ Sec 11)
2. The works are capable of diverting and conveying to the place of use 0.44 cu. ft. per second of water and the license should be issued for 0.44 cfs
3. All structures, wells and lands on map Y

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

The water is being used in the batching of concrete.

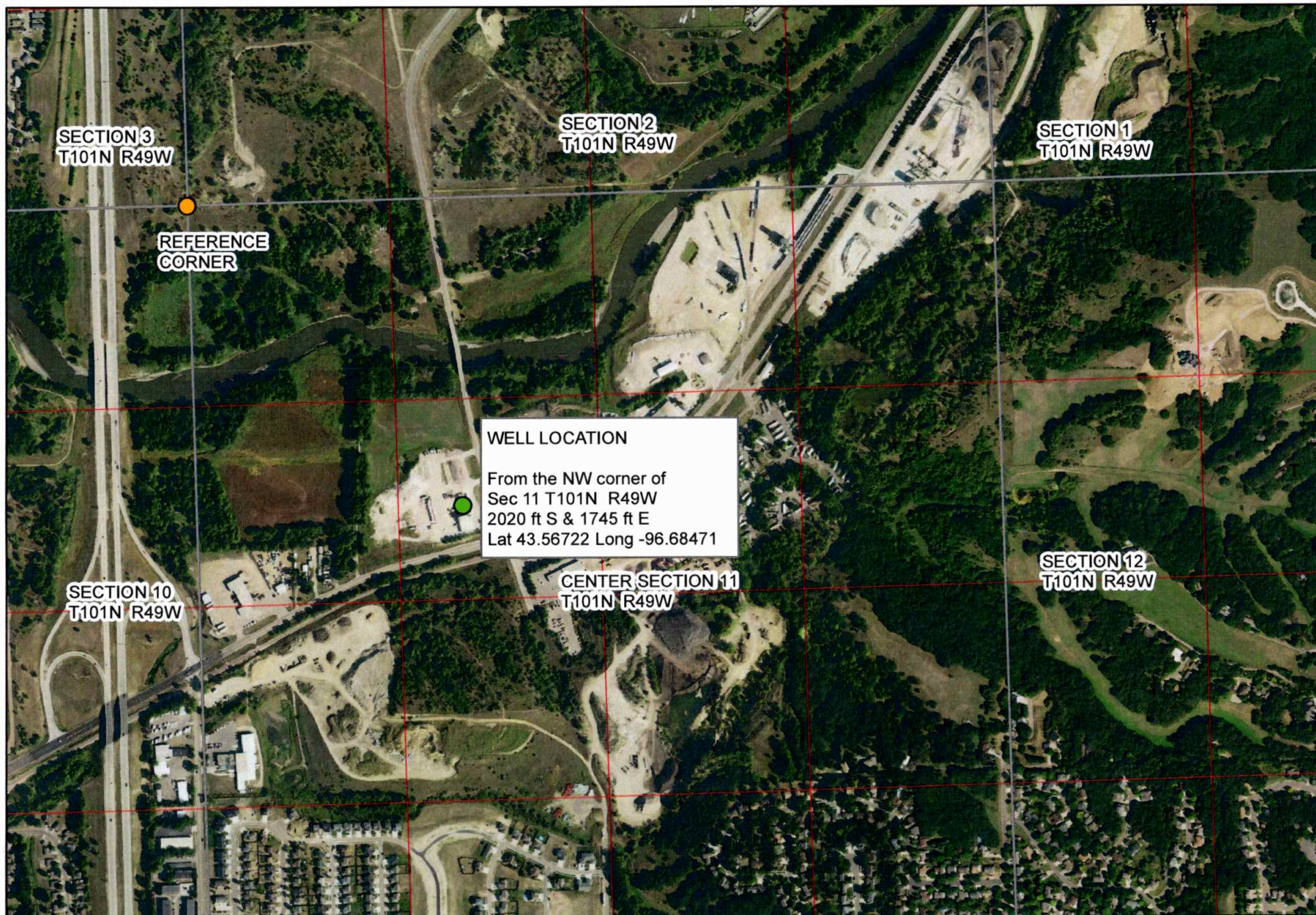
The accompanying map was constructed with the use of an FSA map and the ArcMAPS software.

The address and the telephone number (L G Everest, owner) supplied in the review materials are current.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: August 4, 2021



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program

RECEIVED

AUG 02 2021

WATER RIGHTS
PROGRAM

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

Date 07-29-2021

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

FROM: Ace Ready Mix, Inc c/o Chris Klein

(name)

350 S Main Ave, Suite 400

(address)

Sioux Falls, SD 57104

(city, state, zip)

(605) 330-6570

(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. 8462-3 states that the water use system is to be constructed by

03/01/2026

(date)

, and water is to be put to beneficial use by

03/01/2030

(date)

The water use system was completed on 04/01/2021

(date)

Applying the water to beneficial use was completed on 04/01/2021

(date)

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



(signature)





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

8462-3

AUG 05 2021

Chris Klein
Ace Ready Mix
350 S Main Ave Ste 400
Sioux Falls SD 57104

Dear Mr. Klein:

Enclosed is Water License No. 8462-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8462-3

(1) Ace Ready Mix, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 made Application No. 8462-3, December 14, 2020 for a water permit appropriate 79.8 acre feet of water annually at a rate of 0.44 cubic feet of water per second from ground water, one well (Big Sioux South Aquifer), Minnehaha County, South Dakota for industrial use purposes. Permit No. 8462-3, with a priority date of December 14, 2020 was approved March 1, 2021 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 1, 2026 and for the application to beneficial use of said water on or before March 1, 2030.

The Permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" on August 3, 2021. The "Notice" stated the water use system was completed and the water placed to beneficial use on April 1, 2021.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.44 cubic feet of water per second for beneficial use with an annual appropriation of 79.8 acre feet. The location of the diversion point is:

- 2,020'S and 1,745'E of the NW corner of Section 11, T101N, R49W (SE ¼ NW ¼ Sec 11)
Latitude 43.56722, Longitude -96.68471

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 Ace Ready Mix, 350 S Main Ave, Suite 400, Sioux Falls SD 57104 the holder and/or owner of Water Right No. 8462-3 is issued a license to appropriate water, the right to use 0.44 cubic feet of water per second from ground water, one well (Big Sioux South Aquifer) with a priority date of December 14, 2020 from the location specified in (2) of this license for industrial purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8462-3 and subject to the following qualifications:

- The well approved under Water Right No. 8462-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 8462-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. ***The well was drilled in December 2020 by Dave Putzke Well Drilling & Repair. A copy of the well completion report is on file with the Water Rights Program.***

continued

Water License No. 8462-3

Page 2

- The water right holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux South Aquifer.
- Water Right No. 8462-3 authorizes a total annual diversion of 79.8 acre feet of water.

Eric Gronlund

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

AUG 05 2021

date

