

WATER PERMIT NO. 8167-3

Name of Applicant: Webster Area School District

Address: 102 E 9th Ave, Webster SD 57274 Phone: 605 345-4653

Amount of Water Claimed: 0.09 cfs Total Acres: 1.5

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Day

Type of Waste Disposal System:

Location: within city limits of Webster

PRIORITY Date Received: 5-28-15

Application/License Fee: \$ 300

Corrected Application Received: 6-4-15

Period of Annual Use: April 15 – Nov 1

Remarks:

Diversion Point: SW 1/4 NW 1/4 Sec 35-T122N-
R56W

Land to be Irrigated: SW 1/4 NW 1/4 Sec 35-
T122N-R56W

Depth of Well: 220 – 280 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 6-4-15

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8167-3</u> (office use only) Hydrologic Unit <u>10160010</u>
	Basin <u>James River</u> <u>605-345-3356</u>
	Newspaper <u>Reporter & Farmer, 516 Main Webster</u> <u>605-886-6901 57274</u>
	<u>Public Opinion, Box 10, Watertown 57201</u>

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MAY 28 2015
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

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

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

1. Name to Appear on Irrigation Permit Webster Area School District
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent _____
(name and complete address if different than above name)

Mailing Address 102 E 9th Ave Webster SD 57274
(Address) (City) (State) (Zip Code)

~~Work~~ Home Phone 345-4653 Cell 881-9268 Email jim.block@k12-sd.us

2. Amount of water claimed 0.09*CFS or 40 **GPM ***AF Total Acreage 2.0
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Well

4. Location of point of diversion Fullmer's Addition - City of Webster
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)
SW 1/4 NW 1/4 Sec 35 - T122N - R56W County DAY

5. County or counties where water will be used DAY

6. Annual period during which water is to be used April 15 - Nov 1

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
<u>Lots 1-28 of Block 1 & South 347'</u>	<u>2.0</u>		
<u>of Lots A, B, C, D, E & F</u>			
<u>SW 1/4 NW 1/4 Sec 35 - T122N</u>			
<u>R56W</u>			

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

Football Field - 1 (one) well to provide water
for sprinkler system. Field and end zones
inside the track area to be watered.

I, James Block, the applicant, certify that I have read this application,
have examined the attached map, and that the matters stated are true.

James M Block, 05-26-15

**SOUTH DAKOTA
WATER PERMIT NO. 8167-3**

Date of first receipt of application May 28, 2015.

Date of return to applicant for corrections, amendments or changes May 29, 2015.

Date of receipt of corrected application June 4, 2015.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8167-3 to Webster Area School District, 102 E 9th Ave, Webster SD 57274 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. 8167-3 appropriates 0.09 cubic feet of water per second (cfs) from one well to be completed into the Prairie Coteau Aquifer (220 - 280 feet deep) located in the SW 1/4 NW 1/4 (Fullmer's Addition) Section 35 for irrigation of 2 acres (football field complex) located in the SW 1/4 NW 1/4 Section 35; all in T122N-R56W.
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 15 – November 1.
3. The date from which applicant may claim right is May 28, 2015.
4. The date of approval of Permit No. 8167-3 is August 21, 2015.
5. One-fifth of the construction is to be completed on or before February 21, 2018.
6. All construction is to be completed on or before August 21, 2020.
7. Water is to be put to beneficial use on or before August 21, 2024.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8167-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 8167-3 authorizes a maximum diversion rate of 0.09 cfs for the irrigation of 2 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: *Jeanne Goodman*

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

AUG 27 2015

date



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 (one) 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 _____

c) Well Depth _____ Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____

d) Distance to nearest existing domestic well:

On applicant's property NA

On property owned by others $\frac{1}{4}$ mile +

City of Webster Wells
#1 265-280 ft depth
#2 220 ft depth

2. Wastewater Disposal System Information

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

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)

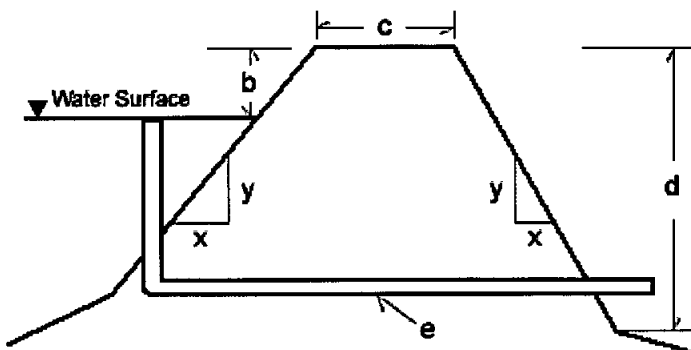
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



Sec 27
T122N
R56W

Sec 26
T122N
R56W

Sec 25
T122N
R56W

Sec 34
T122N
R56W

Sec 35
T122N
R56W

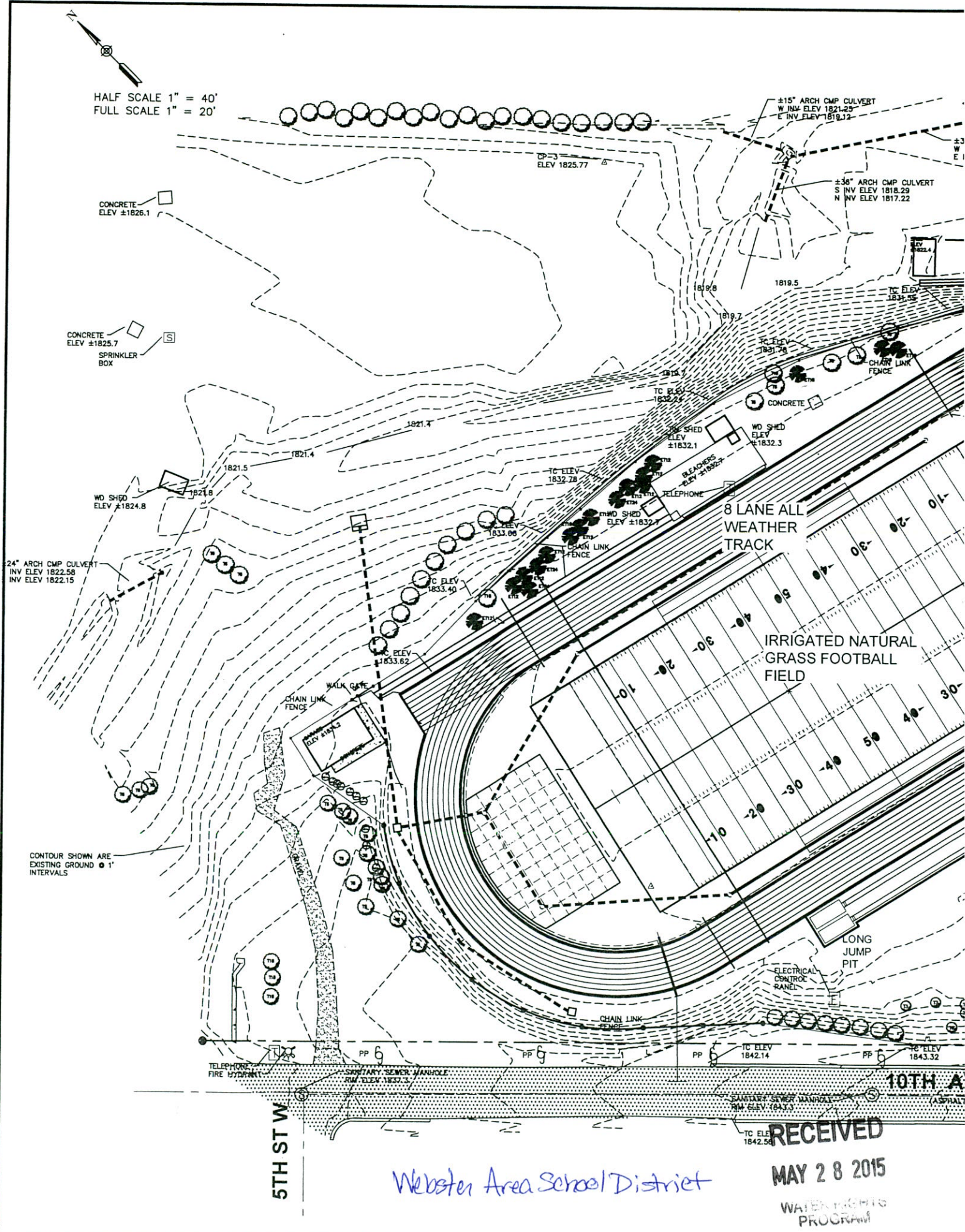
Sec 3
T122N
R56W

Sec 3
T121N
R56W

Sec 2
T121N
R56W

Sec
T121N
R56W





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24X36 SCALE: 1" = 40"
11X17 SCALE: 1" = 80"

LEGEND

- WV WATER VALVE
- FH FIRE HYDRANT
- TP TELEPHONE PEDESTAL
- SS SANITARY SEWER
- DS STORM SEWER
- LP LIGHT POLE
- BH BASKETBALL HOOP
- DS DOWN SPOUT
- SC SPRINKLER CONTROL BOX
- SH SPRINKLER HEAD
- LP LIGHT/POWER POLE
- PP POWERPOLE
- CP CONTROL POINT
- GW GUY WIRE
- F FENCE
- TW TREE W/SIZE
- SSI STORM SEWER INLET
- C CONCRETE
- G GRAVEL
- A ASPHALT SURFACING



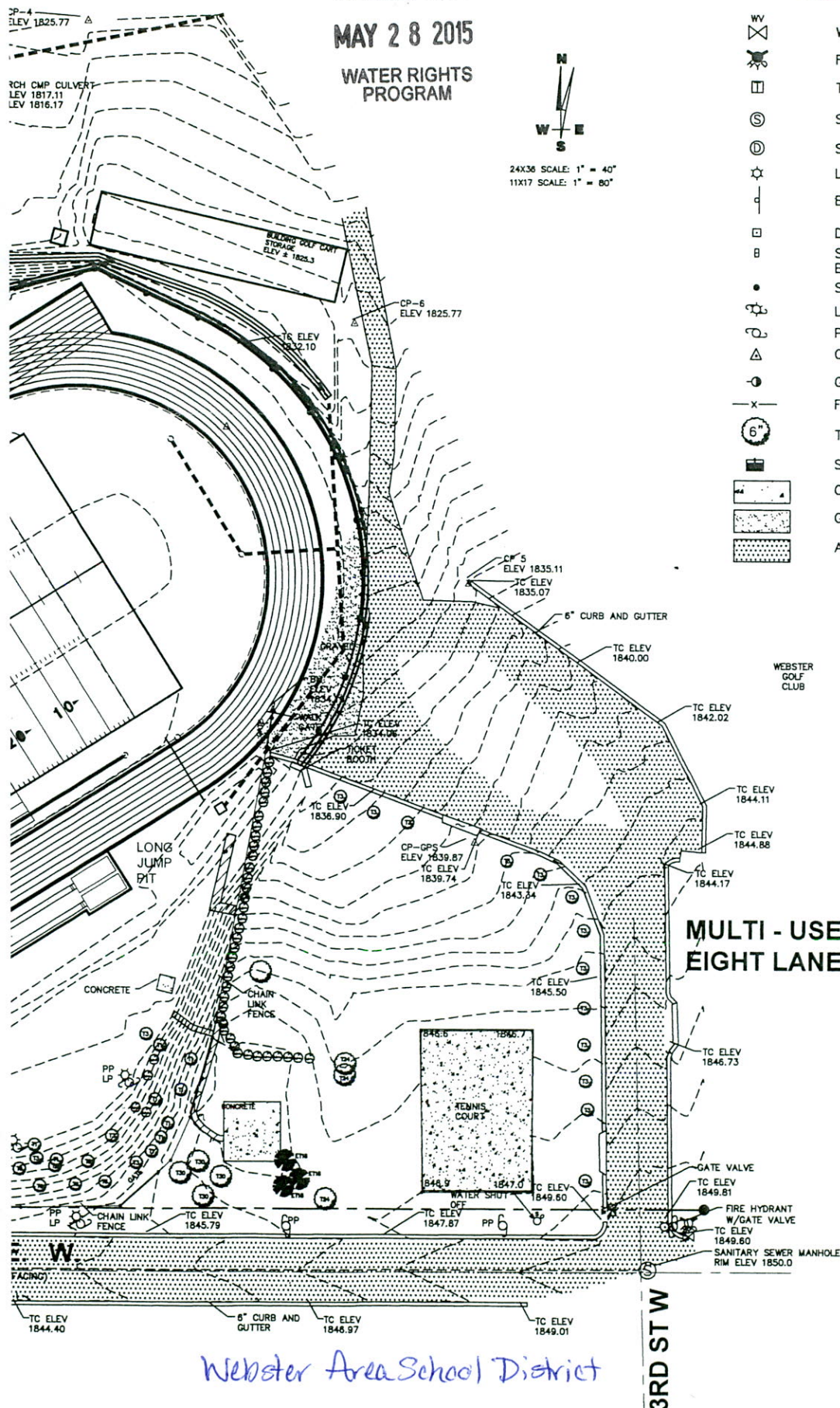
221 Brown County Highway 111
P.O. Box 111
Aberdeen, S.D. 57401-0111
Phone: 605.225.3189
Fax: 605.225.3189
Email: terryh@helmsengineering.com

Helms & Associates
CIVIL ENGINEERS & LAND SURVEYORS

Drawn By: CLB
Chk' By: LCR
Proj. No: A-5513
Dwg. No: 5513-PNT
VP. No: 99
Date: 9/28/13

FUTURE LAYOUT SHEET

WEBSTER AREA SCHOOL MULTI USE
COMPLEX
WEBSTER, SOUTH DAKOTA



Webster Area School District

3RD ST W

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 5/28, 20 15

RECEIVED OF Webster Area School Trust Account Webster SD 57294

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

Fee for Application for Permit No. <u>8167-3</u> to Appropriate Water, to construct and to put water to beneficial use	100	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>8167-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	300 00

No. 07418

By

James Goodman
Chief Engineer

Schlaak, Karen

From: Gronlund, Eric
Sent: Tuesday, May 26, 2015 8:08 AM
To: Block, Jim
Cc: Schlaak, Karen
Subject: RE: Webster Area School - FB Field (Well)

If the amount of water claimed is 45 gpm or less or the total number of acres is less than 7 acres, the application/licensing fee is \$300.

The fee is refundable if the application is withdrawn prior to the public notice. The public notice occurs after DENR reviews the application and makes a recommendation which will take approximately 60 days. After the public notice occurs the only way to get a refund is if the application is denied. If denied 75% is refunded. Once the permit is in place, there is no provision for a refund.

From: Block, Jim
Sent: Monday, May 25, 2015 9:05 PM
To: Gronlund, Eric
Subject: RE: Webster Area School - FB Field (Well)

Eric,

I have contacted the City of Webster and learned that two wells (closest to the football field) are at depths of 265-280 and approximately 220 feet. I think I am going to go ahead with the bid process for well drilling companies to gather information and submit bids. The information that they can gather will be beneficial whether we drill a well this year or if we drill one in the future. As for the permit, what application fee is appropriate? Also, is this fee refundable if we choose not to go forward with well drilling altogether? (If so, at what point in the process do we need to cancel for a refund?) I plan to submit the application Tuesday or Wednesday.

James M. Block, Ed.D
Superintendent/HS Principal
Webster Area School District
605-345-4653

From: Gronlund, Eric
Sent: Thursday, May 21, 2015 3:36 PM
To: Block, Jim
Subject: RE: Webster Area School - FB Field (Well)

DENR has flexibility to process the application without a test hole being drilled if good proposed construction is provided. A well driller may be able to help you with that information. Bottom line is we need the approximate depth to identify the aquifer for the evaluation. As I tell anyone that files an application without a test hole being drilled - if the proposed construction raises significant questions, DENR reserves the right to contact you and require a test hole.

Given the time constraints the School District is in, my advice is to provide what proposed well information you have (especially depth) and submit the application.

Eric

From: Block, Jim
Sent: Thursday, May 21, 2015 3:17 PM
To: Gronlund, Eric
Subject: Webster Area School - FB Field (Well)

Eric,

I found your email at the top of the application. I did leave a voice message for you as well...please disregard that voice message.

In order to provide the information necessary for the application (Well Depth, etc), I am guessing that we need to have test holes done immediately. Am I correct in that assumption?

I will contact the City of Webster regarding the nearest existing domestic well.

James M. Block, Ed.D
Superintendent/HS Principal
Webster Area School District
605-345-4653



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

May 29, 2015

James M Block, Superintendent
Webster Area School District
102 E 9th Ave
Webster SD 57274

Dear Mr. Block:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation use at the school's football complex. In order to complete the application, the following is required.

- A map needs to be submitted that references a government section corner or quarter corner including section, township and range. For your use, I have enclosed a map with those designations. Please mark the proposed well location with an "X". If the proposed well location was marked on your map, I did not spot it.
- In recent correspondence with Eric Gronlund from this office you indicated the city has wells nearest to the football complex with depths ranging from 220 feet to 280 feet deep. Is it fair to assume that the proposed well depth will be somewhere between 220 feet to 280 feet deep?

If you have any questions, please contact me.

Sincerely,

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

enclosure

Craig Case
Elem/MS Principal
SPED Director



Webster Area School

District #18-5

102 East 9th Avenue
Webster, SD 57274
Telephone (605) 345-3548
Fax (605) 345-4421



Mark Hanson
Board President

Amy Miller
Assistant Principal
Student Service Director

Bill Sawinsky
Athletic Director

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JUN - 4 2015

**WATER RIGHTS
PROGRAM**

Tammy Block
Technology Coordinator

Dr. James Block
Superintendent/HS Principal

Lori O'Farrell
Business Manager

June 2, 2015

Department of Environment and Natural Resources
Water Rights Program—Attn: Karen Schlaak
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

Dear Karen Schlaak,

This letter is additional correspondence regarding the proposed water well to be located at the Webster Area School District athletic complex located on 10th Avenue West, Webster, SD.

I have enclosed a copy of the aerial map that you provided. I placed a 'RED X' on the map where the well will likely be located. Also, you asked about the depth of the proposed well. We anticipate that the depth will be between 220 feet and 280 feet.

Please let me know if any additional information is necessary or if you have any further questions. Thank you.

Sincerely,

A handwritten signature in black ink that reads "James Block". The signature is written in a cursive, flowing style.

James M. Block

Schlaak, Karen

From: Schlaak, Karen
Sent: Wednesday, June 17, 2015 8:44 AM
To: Block, Jim
Subject: RE: Application for Permit (Webster Area School)

Mr. Block,

I have reviewed the Application for Permit to Appropriate Water which you submitted on behalf of the School which was complete on June 4, 2015. We have 60 days from that date to complete a report on water availability, etc and the chief engineer to make a recommendation. Approximately, the beginning of August we should have those completed.

The public notice process then follows which is approximately 3 weeks. From there many scenarios can take place. But if the recommendation is favorable and there is no opposition to the application, the permit could approved by September 1st. But this is all dependent on the public notice process.

If the engineer preparing the report has any questions, they will be calling you.

If you have further questions, please let me know.

Karen Schlaak

Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

From: Block, Jim
Sent: Friday, June 12, 2015 12:00 PM
To: Schlaak, Karen
Subject: Application for Permit (Webster Area School)

Karen Schlaak,

Our district recently submitted an Application for Permit to Appropriate Water for irrigation use at our football field. We have solicited bids for well drilling and accepted a bid contingent on approval of our application with DENR. Are you able to determine an approximate approval/denial date that I may share with the well drilling company?

Also, if there is any other information necessary for our application, please let me know. Thank you.

Sincerely,

James M. Block, Ed.D
Superintendent/HS Principal
Webster Area School District
605-345-4653

No. 8167-3

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 8167-3, Webster Area School District

ADDRESS: COUNTY: Day County

DATE: August 4, 2015 TELEPHONE:

RE: acreage

I contacted Superintendent Jim Block to inform him their water permit application was ready for public notice.

The application indicates 1.5 acres to be irrigated but I stated in digitizing the inside area of the track, I arrive at approximately 2.0 acres. Mr. Block indicated that he didn't know if they'd be irrigating all the inside area but agreed it would be best to round up to 2.0 acres and asked that I amend the application accordingly.

NAME: Eric Tomlinson



**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. 8167-3, Webster Area School District**

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. 8167-3, Webster Area School District, c/o James Block, Superintendent, 102 E 9th Avenue, Webster, SD 57274.

The Chief Engineer is recommending APPROVAL of Application No. 8167-3 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 this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8167-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 8167-3 authorizes a maximum diversion rate of 0.09 cfs for the irrigation of 1.5 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
August 4, 2015

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NOS. 8167-3
WEBSTER AREA SCHOOL DISTRICT
AUGUST 4, 2015

Water Permit Application No. 8167-3 proposes to appropriate water at a maximum diversion rate of 0.09 cubic feet of water per second (cfs) from one well to be completed into the Prairie Coteau aquifer to irrigate up to 2 acres located in the SW ¼ NW ¼ Section 35; all in T122N-R56W in Day County. The well is expected to be approximately 220 to 280 feet deep and is to be located in the SW ¼ NW ¼ Section 35; all in T122N-R56W. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

AQUIFER: Prairie Coteau (PCO)

Aquifer Characteristics:

The Prairie Coteau aquifer is a general name for disconnected pockets of outwash on the Coteau Des Prairies. Hedges and others (1982) estimated the Prairie Coteau aquifer underlies approximately 500,000 acres of Day County and contains an estimated 675,000 acre-feet of recoverable water in storage. The total acreage of the aquifer is not contiguous. Leap (1988) created a geologic map and glacial aquifer maps of Day County. Leap (1988) calls it the Lower Webster Aquifer. Leap (1988) stated the aquifer underlies approximately 19 square miles (12,160 acres) with an average thickness of 24 feet. The aquifer is comprised of sands and gravels that grade from medium sand to coarse gravel (SDGS, 2015). The aquifer is under confined conditions. An aquifer pump test was conducted on the City of Webster's well no. 6 (Leap, 1988). The transmissivity and storage coefficient at observation wells 1 and 2 from the pumping test are listed in Table 1.

	Obs Well 1	Obs Well 2
Transmissivity (gpd/ft)	38,000	48,500
Storage Coefficient	0.0006	0.0002

Table 1- Transmissivity and Storage Coefficient from pumping test (Leap, 1988)

At the proposed well site the top of the aquifer is expected to be between 200 and 240 feet below ground surface (SDGS, 2015). The aquifer is expected to be approximately 25 feet thick but may range from 15 to 30 feet (SDGS, 2015). The static water level is expected to range from 100 to 130 feet below grade (Water Rights, 2015b and 2015c). The approximate areal extent of the aquifer (Leap, 1988), water rights/permits authorized to withdraw water from this portion of the Prairie Coteau aquifer (Water Rights, 2015b), and the nearest Prairie Coteau aquifer observation wells are shown in Figure 1.

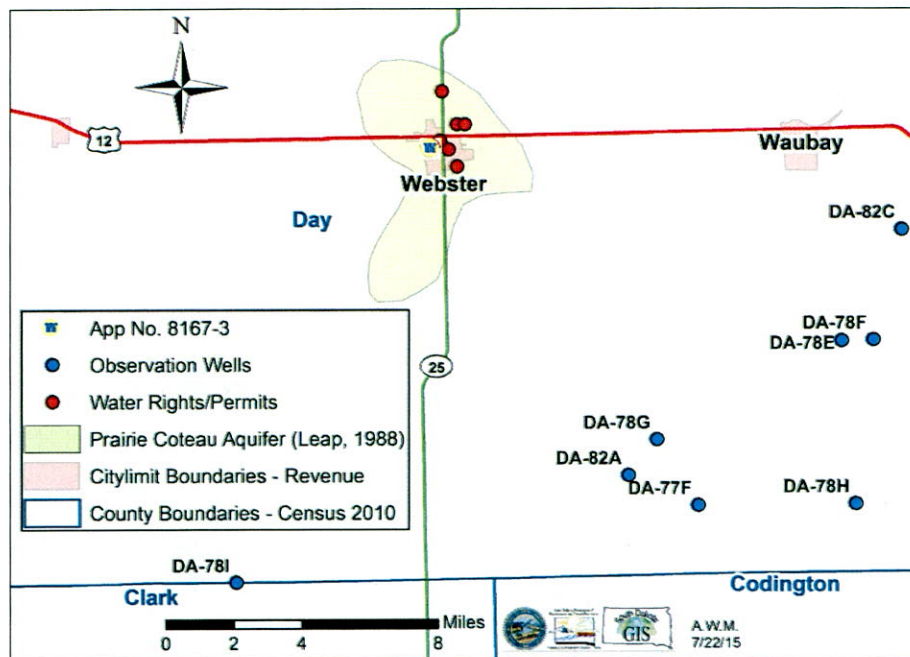


Figure 1- Map of region including approximate aquifer areal extent (Leap, 1988), water rights/permits (Water Rights, 2015b), and DENR observation wells (Water Rights, 2015c)

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 there is unappropriated water available for this 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 effects on existing rights from the aquifer that are pertinent to this application.

WATER AVAILABILITY:

This application proposes to appropriate water from the Prairie Coteau aquifer. The probability of unappropriated water 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." If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. In this case, the aquifer is not stratigraphically lower than the Greenhorn Formation and the applicant is not a water distribution system.

Observation Well Data:

Administrative Rule of South Dakota Section 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 DENR-Water Rights Program does not monitor any observation wells completed into this portion of the Prairie Coteau aquifer. The nearest observation wells completed into any portion of the Prairie Coteau aquifer are DA-78G and DA-82A, approximately 11 miles southeast (Water Rights, 2015a). The hydrographs for DA-78G and DA-82A are shown in Figures 2 and 3, respectively. It is likely the portion of the Prairie Coteau aquifer this application proposes to use will react in a manner similarly to other nearby portions of the aquifer that are monitored by observation wells. Therefore, the observation wells completed into the Prairie Coteau aquifer in the area are representative.

The observation wells show response to climatic conditions. The water levels rise (recharge) during wet years and gradually decline during dry years. The climatic effects on the water level mask the temporal impacts of well withdrawal. Thus on a regional scale, recharge to and natural discharge from the Prairie Coteau aquifer significantly exceeds pumping. Natural discharge from an aquifer can be captured for pumping. Without observation wells completed into this particular portion of the Prairie Coteau aquifer, it is not possible to determine the availability of unappropriated water. However, the hydrographs do show that in the region different portions of the Prairie Coteau aquifer have increasing water levels over the period of record.

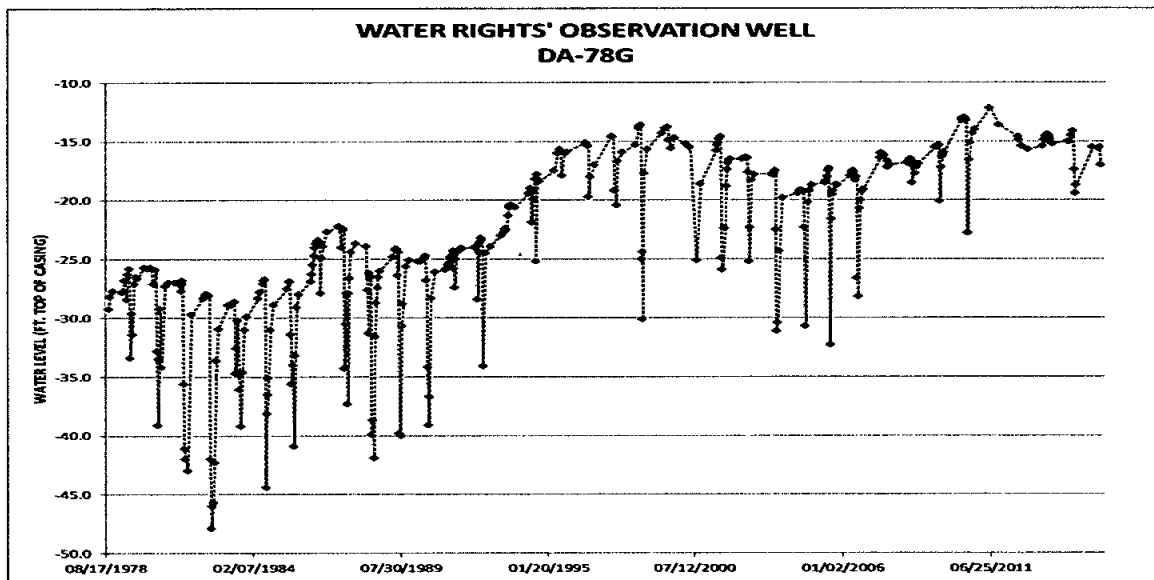


Figure 2- Hydrograph for observation well DA-78G (Water Rights, 2015a)

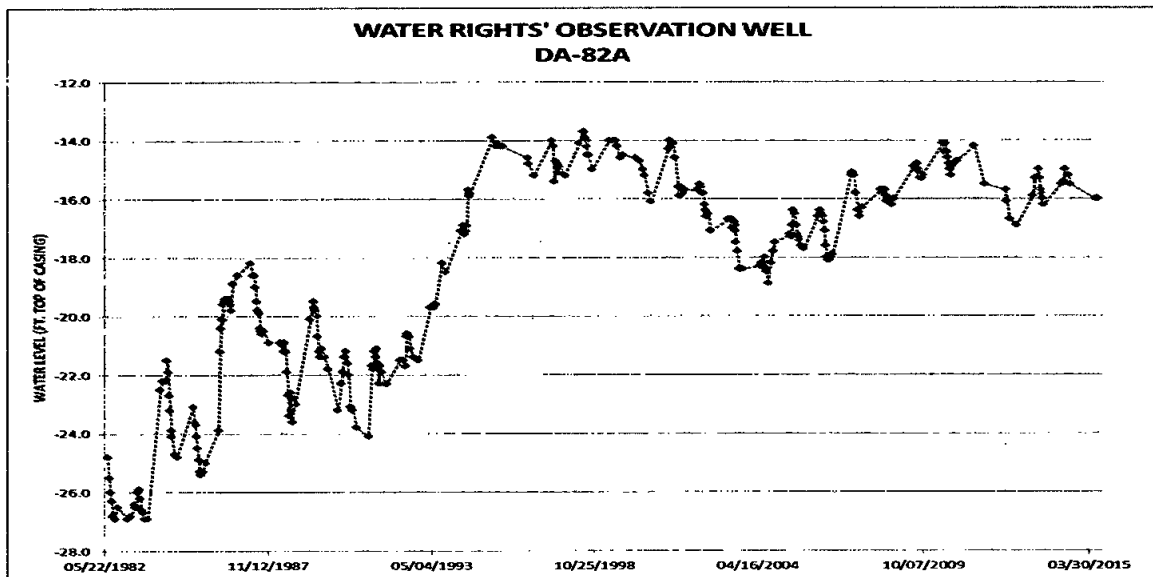


Figure 3- Hydrograph for observation well DA-82A (Water Rights, 2015a)

Recharge and Discharge:

Recharge:

This portion of the Prairie Coteau aquifer is recharged through groundwater inflow from underlying portions of the Prairie Coteau aquifer (Leap, 1988) and possible hydraulic connections to area lakes. There is not sufficient data to calculate an approximate recharge rate to this portion of the Prairie Coteau aquifer. However, Hedges and others (1985) estimated a range of recharge rates, 0.15 to 0.6 in/yr, to confined aquifers. Using the approximate areal extent of the aquifer from Leap (1988) (12,160 acres), the estimated average annual recharge to this portion of the Prairie Coteau aquifer is 152 to 608 ac-ft/yr.

Discharge:

The Prairie Coteau aquifer in this area naturally discharges to overlying portions of the aquifer and area lakes (Leap, 1988). There are six water rights authorized to withdraw water from this portion of the Prairie Coteau aquifer (Water Rights, 2015b). These water rights are listed in Table 2.

Permit No.	Name	Status	Use	CFS	Acres	Volume (ac-ft)
567-3	City of Webster	LC	MUN	1.34		
1865-3	City of Webster	LC	MUN	0.44		
5087-3	Larson Concrete Company	LC	IND	0.1		10
6313-3	Consolidated Ready Mix	LC	IND	0.089		10
6327-3	City of Webster	LC	IRR	0.56	7	
6760-3	Day County	LC	IND	0.022		9.56
					Total	29.56

LC= Water Right, MUN= Municipal, IND= Industrial, IRR= Irrigation

Table 2- Water rights/permits authorizing diversion from the portion of the Prairie Coteau aquifer that Application No. 8167-3 proposes to use (Water Rights, 2015b)

The City of Webster is currently hooked to WEB Water Development Association rural water and their wells are used for standby purposes (Friedeman, 2015). Thus, while they maintain water rights it is assumed their pumpage under these water rights is negligible. The estimated use by the non-irrigation appropriations, excluding the City of Webster as previously stated, is 29.56 ac-ft/yr. This is determined by assuming pumping at the maximum permitted diversion rate for 60 percent of the time for Water Right No. 6760-3. Water Right Nos. 5087-3 and 6313-3 are for ready mix cement plants. Based on non-irrigation annual reports (Water Rights, 2004-2015) and water rights/permits (Water Rights, 2015b) most ready mix plants authorized at the same approximate diversion rate pump or are authorized to pump between 3 and 10 ac-ft/yr. Therefore, using 10 ac-ft/yr for estimation of annual use by Water Right Nos. 5087-3 and 6313-3 is appropriate.

The only permit ever authorized for irrigation from this portion of the Prairie Coteau aquifer is Water Right No. 6327-3 for the City of Webster. The historical irrigation water use from this portion of the Prairie Coteau aquifer is shown in Table 3.

Year	Acres Irrigated	Acre-feet
2014	7	5.45
2013	7	3.97
2012	7	4.71
2011	0	0
2010	0	0
2009	0	0
2008	4	5.86
2007	4	7.25
2006	4	7.48
2005	3	4.79
2004	3.5	9.11
2003	5	5.52
Avg.	3.71	4.51

Table 3- Historical irrigation pumpage from this portion of the Prairie Coteau aquifer (Water Rights, 2003-2014)

There are also a number of domestic wells completed into this portion of the aquifer. However, the volume pumped by these domestic wells is not significant to the hydrologic budget.

Hydrologic Budget:

The estimated average annual recharge to this portion of the Prairie Coteau is 152 to 608 ac-ft/yr. The expected average annual appropriative pumpage from this aquifer is 29.56 ac-ft/yr. This application, if approved, is estimated to use three ac-ft/yr. Considering the City of Webster was estimated to use in excess of 700 ac-ft/yr for municipal purposes when it was actively pumping from the aquifer, there is a reasonable probability that unappropriated water is available for this proposed appropriation.

EXISTING WATER RIGHTS:

Figure 4 shows a map of the project area with the location of wells authorized by water rights/permits completed into the portion of the Prairie Coteau aquifer this application proposes to use (Water Rights, 2015b). Table 2 is a list of the water rights/permits authorizing the

diversion of water from this portion of the Prairie Coteau aquifer. The wells authorized by Water Right Nos. 567-3 and 1865-3 are approximately 0.3 miles northeast of the proposed well site (Water Rights, 2015b). There are also a number of domestic wells completed into this portion of the Prairie Coteau aquifer within approximately one mile of the proposed well site (Water Rights, 2015c).

At the distances between well sites and with the small diversion rate requested by this application, it is likely there will not be an adverse impact by pumping this proposed diversion. There is a history of high capacity wells without a history of complaints about well interference. The City of Webster is authorized to divert water at a maximum diversion rate of 1.78 cfs. At 50 feet from the proposed well, drawdown is expected to be 1.7 feet or less after 185 days of continuous pumping using the transmissivity and storage coefficient from Leap (1988) and the proposed diversion rate. Pumping for 185 days continuously is a worst case scenario and is not likely to happen, but it is useful for showing the proposed diversion will have little impact on surrounding wells. At the proposed well site there is also approximately 80 to 120 feet of artesian head pressure. Therefore, there is a reasonable probability that this appropriation can be made without adversely impacting exiting appropriative or domestic users.



Figure 4- Map of Application No. 8167-3 project area water rights/permits (Water Rights, 2015b)

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"

In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. Since the aquifer is under confined conditions drawdown due to pumping may be significant some distance from the well site. However based on the aquifer characteristics listed by Leap (1988), there is a reasonable probability that pumping this proposed diversion will not adversely impact existing adequate wells.

SDCL 46-5-6

Pursuant to SDCL 46-5-6, the diversion rate for an irrigation appropriation cannot be in excess of one cfs for every 70 acres, or "the equivalent thereof." The statute does provide that the Water Management Board may allow a greater diversion rate if the method of irrigation so requires. This application proposes to divert up to 0.09 cfs for the irrigation of 2 acres, or the equivalent of 4.2 cfs per 70 acres. The Webster Area School District Superintendent, Dr. James Block, stated the contractor of the irrigation system, Inman Irrigation of Aberdeen, provided the required specifications for the project (Block, 2015). This irrigation project requires and has been designed in a manner that the requested diversion rate is necessary for efficient operation. These are acceptable reasons for the request in excess of the statutory limit.

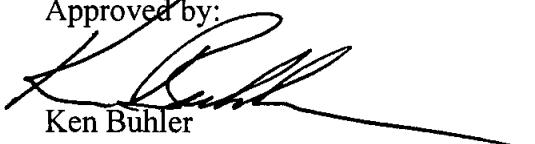
CONCLUSIONS:

1. This application proposes to appropriate water from a portion of the Prairie Coteau aquifer at a maximum diversion rate of 0.09 cfs for the irrigation of 2 acres in Day County.
2. There is a reasonable probability that unappropriated water is available from the proposed portion of the Prairie Coteau aquifer for this proposed appropriation.
3. There is a reasonable probability that the diversion proposed by this application can be made without adversely impact existing appropriative or domestic users.
4. The applicant is requesting a diversion rate in excess of the statutory limit. The applicant stated the project required the diversion rate and had been designed as such by the irrigation project contractor. These are acceptable reasons for the request.



Adam Mathiowetz PE
SD DENR-Water Rights Program

Approved by:



Ken Bühler
SD DENR-Water Rights Program

REFERENCES:

- Block, J. Telephone Conversation with Adam Mathiowetz. Superintendent-Webster Area School District. July 23, 2015.
- Friedeman, B. Personal Contact. SD DENR-Drinking Water Program, Environmental Scientist. July 23, 2015
- Hedges, L.S., Allen, J., 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., S.L. Burch, D.L. Iles, R.A. Barari, and R.A. Schoon. 1982. Evaluation of Ground-water Resources in 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.
- Leap, D.I. 1988. Geology and Hydrology of Day County, South Dakota. Bulletin 24. SD DENR-Geological Survey. Vermillion, South Dakota.
- SDGS. 2015. Lithologic Logs Database Search. <<http://sddenr.net/lithdb/>>. Accessed: July 22, 2015. SD DENR-Geological Survey. Vermillion, South Dakota.
- Water Rights. 2004-2015. "Yearly Non-Irrigation Questionnaires". SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2003-2014. "2003-2014 Irrigation Summaries by Aquifer": SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2015a. Observation Well Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2015b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2015c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

RECEIVED

AUG 27 2015

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

reporterandfarmer.com

STATE OF SOUTH DAKOTA)
County of DAY) SS

I, JOHN SUHL

certify that the attached printed Notice was taken
from the REPORTER & FARMER

printed and published in

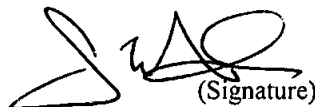
County of DAY and

state of South Dakota. The notice was published

in the newspaper on the following date:

Aug 10

Cost of Printing 28,88


(Signature)

Publisher
(Title)

8/25/15
(Date Signed)

Application for water permit

NOTICE OF APPLICATION NO. 8167-3

TO APPROPRIATE WATER

Notice is given that Webster Area School District, James Block, Superintendent, 102 E. 9th Ave., Webster, SD 57274 has filed an application for a water permit to appropriate 0.09 cubic feet of water per second (cfs) from one well to be completed into the Prairie Coteau Aquifer (220-280 feet deep) located in the SW1/4NW1/4 (Fullmer's Addition) Section 35 for irrigation of two acres (football field complex) located in the SW1/4NW1/4 Section 35; all in T122N-R56W. The applicant is requesting a diversion rate greater than the statutory limit of one cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8167-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. 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.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 21, 2015.

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. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application.

Steven M. Pirner, Secretary,
Department of Environment
and Natural Resources
Published once at the total
approximate cost of \$28.88.

RECEIVED

AUG 19 2015

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was published

in the newspaper on the following date:

August 10th, 2015

Cost of Printing \$60.20

Monica K. Saathoff
(Signature)

Bookkeeper
(Title)

August 10th, 2015
(Date Signed)

WEBSTER
SCHOOL
DISTRICT

NOTICE OF APPLICATION
NO. 8167-3 to Appropriate
Water

Notice is given that Webster Area School District, James Block, Superintendent, 102 E 9th Ave, Webster SD 57274 has filed an application for a water permit to appropriate 0.09 cubic feet of water per second (cfs) from one well to be completed into the Prairie Coteau Aquifer (220 - 280 feet deep) located in the SW 1/4 NW 1/4 (Fullmer's Addition) Section 35 for irrigation of 2 acres (football field complex) located in the SW 1/4 NW 1/4 Section 35; all in T122N-R56W. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8167-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. 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. Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 21, 2015. 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. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at an approximate cost of \$55.19. (August 10, 2015)

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, August 04, 2015 11:36 AM
To: news@reporterandfarmer.com
Subject: 8167-3, Webster Area School District
Attachments: 8167-3public.short.docx; FORM8 FRM.doc

Attached is a notice to be published on Augsut 10, 2015.

Webster Area School District, c/o James Block, Supt, 102 E 9th Ave, Webster SD 57274 (605 345-4653) 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.

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

Karen Schlaak

Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, August 04, 2015 11:37 AM
To: legals@thepublicopinion.com
Subject: 8167-3, Webster Area School District
Attachments: 8167-3public.short.docx; FORM8 FRM.doc

Attached is a notice to be published on Augsut 10, 2015.

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Please send the affidavit or return the attached Proof of Publication form ASAP.

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

Karen Schlaak

Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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

August 4, 2015

Webster Area School District
James Block- Superintendent
102 E 9th Ave
Webster SD 57274

Dear Mr. Block:

Water Permit Application No. 8167-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Reporter & Farmer printed at Webster SD (Ph # 605-345-3356) and the Public Opinion printed at Watertown SD (Ph # 605-886-6901). You will need to contact the newspaper(s) 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(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,


Eric Gronlund

Natural Resources Engineer
(605) 773-3352

enclosures

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

NOTICE OF APPLICATION NO. 8167-3 to Appropriate Water

Notice is given that Webster Area School District, James Block, Superintendent, 102 E 9th Ave, Webster SD 57274 has filed an application for a water permit to appropriate 0.09 cubic feet of water per second (cfs) from one well to be completed into the Prairie Coteau Aquifer (220 - 280 feet deep) located in the SW 1/4 NW 1/4 (Fullmer's Addition) Section 35 for irrigation of 2 acres (football field complex) located in the SW 1/4 NW 1/4 Section 35; all in T122N-R56W. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8167-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. 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.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 21, 2015.

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. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of_____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

AUG 27 2015

Webster Area School District
James Block
102 E 9th Ave
Webster SD 57274

Dear Mr. Block:

Enclosed is Water Permit No. 8167-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

8167-3

11-02

Location NE 1/4 NW 1/4 Sec 35 Twp 122 Rg 56

County Day

North

E

W

Please mark well location with an "X"

Well completion Date 9/22/15

1 Mile

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
 ? ft. from _____ (Identify source)

PROPOSED USE:

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

METHOD OF DRILLING:
FORWARD ROTARY

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
200 LB/FT	8 IN	6 FT	182 FT	12 1/2 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Quickgrout	10	Lb/gal	6 FT	160 FT
		Lb/gal	FT	FT

Describe grouting procedure Full hole grouting tremie line to 160

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 8 Inches Length 20 Feet

Material SS

Slot Size .040 Set From 182 Feet to 202 Feet

Other information _____

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? _____
☒ No, Why Not? Irrigation

Lab sample sent to for water quality analysis NO

Well Owner: Webster School

Business Name: _____

Address1: _____

Address2: _____

City, State, Zip: Webster, S.D

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Fill	0	20
yellow clay rocky	20	40
soft Blue clay	40	80
soft Blue clay	80	120
HARD Blue clay	120	140
soft Blue clay	140	150
Rocky hard clay	150	160
HARD Blue clay	160	168
water sand	168	202

STATIC WATER LEVEL 45 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? yes

WELL TEST DATA:

☒ Pumped Describe: Air line

☐ Bailed

☐ Other

Pumping Level Below Land Surface

_____ Ft. After	_____ Hrs. pumped	_____ GPM
100	3	50
_____ Ft. After	_____ Hrs. pumped	_____ GPM

If pump installed, pump rate: 50 GPM

REMARKS

RECEIVED

FEB 08 2016

WATER RIGHTS PROGRAM

PRAIRIE COTEAU KT

This well was drilled under license # 480

And this report is true and accurate.

Drilling firm: Wieber Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 9/22/15

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8167-3

I have this day, September 19, 2023, made a thorough examination of the water use system constructed by Webster Areas School District, 102 E. 9th Ave, Webster, SD 57274 of Permit No. 8167-3, bearing the priority of May 28, 2015 authorizing the diversion of 0.09 cu. ft. per second of the waters of the Prairie Coteau Aquifer for irrigation purposes, in Day County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Wieber Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 202 feet
- 4) Well log is available Y If no, explain in comments

Casing:

- 1) Diameter 8 inches
- 2) Length 182 feet
- 3) Type Plastic

Screen:

- 1) Type Stainless steel
- 2) Length 20 feet
- 3) Static water level 45 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 40 GPM

Motor:

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

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

- 1) Type Buried
- 2) Size Unknown inches
- 3) Length 400 feet

C. Works used to apply water to beneficial use: Buried sprinkler system

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) 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: **WELL LOCATION**
From the NW corner Sec 35 T122N R56W 1805 ft S & 600 ft E, Lat 45.33603 long -97.52777 (SW ¼ NW ¼).
2. The works are capable of diverting and conveying to the place of use 0.09 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
legal description/acreage
All land in Sec 35 T122N R56W
SW NW – 2.0 acres

comprising a total of 2.0 acres of land and the license should be issued for 0.09 cfs
3. All structures, wells and lands on map Y

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

The irrigated acreage was estimated with the aid of FSA imagery and ArcMAPS software.

The pump rate reported in a recent Irrigation Questionnaire was used to establish the system flow capacity.

The mailing address and the telephone number in the permit materials are current.

I talked to Dr. James Block, School Superintendent (cell 605/881-9268) regarding the field inspection visit.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: **September 21, 2023**



0 410 820 1,640 2,460 3,280 Feet



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

SEP 25 2023

8167-3

Webster Area School District
c/o Dr. James Block, Superintendent
102 E 9th Ave
Webster SD 57274

Dear Dr. Block:

Enclosed is Water License No. 8176-3. 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.

So 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. 8167-3

(1) Webster Area School District; 102 E 9th Ave, Webster SD 57274, made Application No. 8167-3, May 28, 2015, for a water permit to divert 0.09 cubic feet of water per second (cfs) from groundwater, one well (Prairie Coteau Aquifer), Day County, South Dakota for irrigation purposes. Permit No. 8167-3, with a priority date of May 28, 2015, was approved August 21, 2015, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before August 21, 2020, and for the application to beneficial use of water on or before August 21, 2024.

(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 0.09 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,805 ft S & 600 ft E of the NW corner of Section 35, T122N, R56W (SW $\frac{1}{4}$ NW $\frac{1}{4}$)
(Latitude 45.33603 & Longitude -97.52777)

(3) The amount of appropriation may not exceed 2.0 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 15 – November 1.

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

Section 35, T122N, R56W
SW $\frac{1}{4}$ NW $\frac{1}{4}$ 2.0 acres

(5) Pursuant to South Dakota Water Law 46-5-30.1 Webster Area School District, the holder and/or owner of Water Right No. 8167-3 is issued a license to appropriate water, the right to use 0.09 cubic feet of water per second from groundwater, one well (Prairie Coteau Aquifer), with a priority date of May 28, 2015, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8167-3 and subject to the following qualifications:

1. The well approved under this Water Right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Water Right shall control their 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 under Water Right No. 8167-3 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. *(The well was drilled in 2015 by Wieber Well Drilling. A copy of the well completion report is on file with the Water Rights Program.)*

continued

3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate is the methods of irrigation, time constraints, or type of soils requires, Water Right No. 8167-3 authorizes a maximum diversion rate of 0.09 cfs for the irrigation of 2 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund

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

SEP 25 2023

date

