

WATER PERMIT NO. 8297-3

Name of Applicant: Valley View Farms, Inc.

Address: 45802 177th St, Watertown SD 57201

Phone: 605 886-8961

Amount of Water Claimed: 0.08 cfs (35 AF)

Total Acres: NA

Source of Water Supply: groundwater (one existing well)

Water to be used for: commercial

County: Codington

Type of Waste Disposal System:

Location: approximately 5 miles southeast of Watertown

PRIORITY Date Received: 6-16-17

Application/License Fee: \$ 300

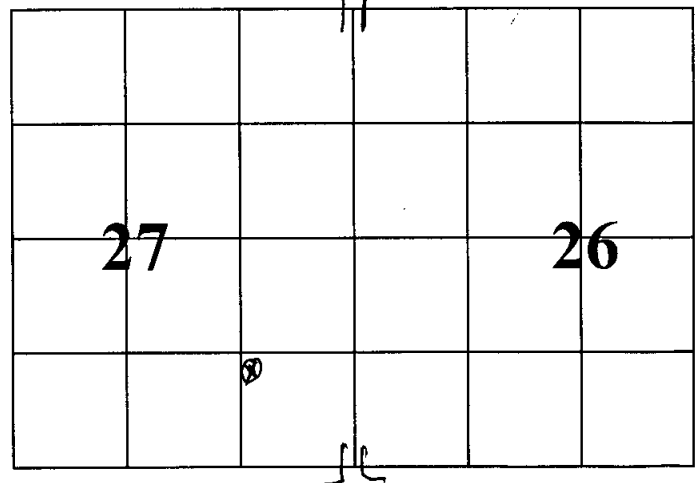
Corrected Application Received: 7-12-17

Period of Annual Use: Jan 1 – Dec 31

Remarks: livestock confinement facility

Diversion Point: SE 1/4 SE 1/4 Sec 27-T116N-
R52W

Facility Location: SE 1/4 Sec 27 and SW 1/4 Sec
26; all in T116N-R52W



Depth of Well: 49

Well Driller: Lee Well Drilling

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 7-12-17

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

FORM 2: Application for uses other than irrigation

(type or print)

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8297-3</u>	(office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Public Opinion, Watertown</u>	

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JUN 16 2017

WATER RIGHTS
PROGRAM

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 <u>Livestock Water</u>	

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. <u>7421-3</u>		

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

This application is for addition of a diversion point at a well that is covered under water rights permit for irrigation held by Valley View Farms, Inc.

1. Name to Appear on Water Permit Valley View Farms, Inc.

Mailing Address 45802 177th Street Watertown SD 57201
 (Address) (City) (State) (Zip Code)

Phone (605) 886-8961 Mobile (605) 886-8961 Email nreichli@gmail.com

2. Amount of water claimed 0.08 *CFS or 35 **GPM and 35.0 ***AF or _____ Gallons
 Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use)

3. Source of water supply Existing well SE 1/4 SE 1/4 Sec 27 - T116N - R52W4. Location of point of diversion at well location, water will be diverted to feedlot County Codington

(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☒ No

If "Yes," where will water be used? Facility location: E 1/2 SE 1/4 Sec 27 & SW 1/4 Sec 26; T116N-R52W
 (example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Codington6. Annual period during which water is to be used January 1 to December 31 (full calendar year)

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)

The landowner, Valley View Farms (Nathan Reichling), plans to use water from the well referenced on the attached log to water livestock. The livestock will be kept in a feedlot area and in barns, with total capacity of up to 2,500 head. The average water use for these cattle is estimated at 12.5 gallons per head per day with a peak of 20 gallons per head per day during times of higher temperatures (summer). ~~This well is part of a four well system currently covered by water rights for irrigation, permit 7421-3.~~

I, Nathan Reichling Nathan Reichling owner/operator, the applicant, certify under
 Name of Person Title (if applicable)

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

SOUTH DAKOTA
WATER PERMIT NO. 8297-3

Date of first receipt of application June 16, 2017.

Date of return to applicant for corrections, amendments or changes June 20, 2017.

Date of receipt of corrected application July 12, 2017.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8297-3 to Valley View Farms Inc., c/o Nathan Reichling, 45802 177th St, Watertown SD 57201 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. 8297-3 appropriates 35 acre-feet of water annually at a maximum pump rate of 0.08 cubic feet of water per second from one existing well completed into the Big Sioux:North Aquifer (49 feet deep) located in the SE 1/4 SE 1/4 Section 27 for commercial use in a livestock confinement facility located in the E 1/2 SE 1/4 Section 27 and the SW 1/4 Section 26; all in T116N-R52W. The site is located approximately 5 miles southeast of Watertown.
2. The water appropriated shall be used for the purpose of commercial 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. 8297-3 is October 2, 2017.
5. The date from which applicant may claim right is June 16, 2017.
6. One-fifth of the construction is to be completed on or before April 2, 2020.
7. All construction is to be completed on or before October 2, 2022.
8. Water is to be put to beneficial use on or before October 2, 2026.
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. 8297-3 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. Water Permit No. 8297-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.

(continued)

3. Water Permit No. 8297-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions
4. The Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux:North aquifer.
5. Water Permit No. 8297-3 authorizes a total annual diversion of 35.0 acre feet of water.

WATER MANAGEMENT BOARD

By: _____

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

OCT 20 2017

date



Supplemental Information

(type or print)

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

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

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Leewell Drilling, Inc.

For either Existing or Proposed Wells:

c) Well Depth (required) 49 Depth to Top of Water Bearing Material 37 Depth to Water from Surface 15

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

2. Wastewater Disposal System Information

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

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

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

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

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

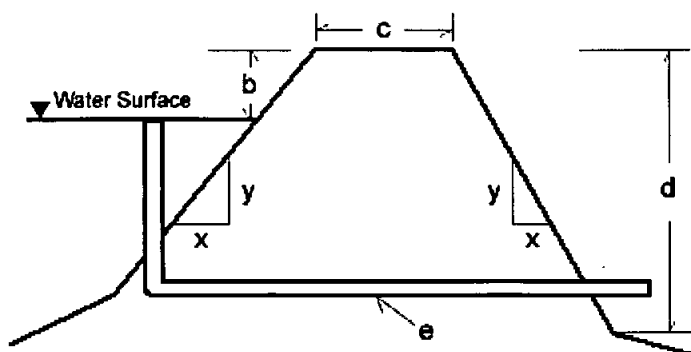
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



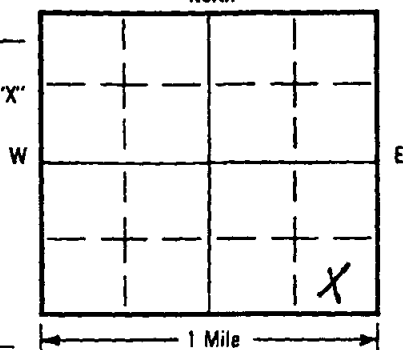
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SOUTH DAKOTA WATER WELL COMPLETION REPORT

WATER RIGHTS
PROGRAMLocation SE 1/4 SE 1/4 Sec 27 Twp 116N Rg 52W
County CodingtonCodington

Please mark well location with an "X"



Well Completion Date

8/23/12

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 800 ft. from Barn (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forward RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR-21 LB/FT</u>	<u>6 IN</u>	<u>0 FT</u>	<u>37 FT</u>	<u>10 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Next Gen</u>	_____	<u>15 lb./gal</u>	<u>7 ft</u>	<u>30 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Pressure Grout w/ concrete pipeSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 6 IN Length 12 FEETMaterial PVCSlot Size 50 Set From 37 Feet to 49 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: Chloride☐ NO, Why Not? Solution

Laboratory sent to for water quality analysis

CustomerWell Owner: Tom ReichlingBusiness Name: Valley Views Farms Inc.Address: 17660 458th
Watertown, SD 57201

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>topsoil Dark</u>	<u>0</u>	<u>2</u>
<u>Gravel Yellow</u>	<u>2</u>	<u>18</u>
<u>clay yellow</u>	<u>18</u>	<u>19</u>
<u>Sand 10/64 yellow</u>	<u>19</u>	<u>22</u>
<u>clay yellow</u>	<u>22</u>	<u>24</u>
<u>Sand 10/64</u>	<u>24</u>	<u>34</u>
<u>Sand coarse</u>	<u>34</u>	<u>49</u>
<u>clay Blue</u>	<u>49</u>	

STATIC WATER LEVEL 15 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: Centrifugal Pump☐ Bailed☐ Other

Pumping Level Below Land Surface

17 ft. After 2 Hrs. pumped 40 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

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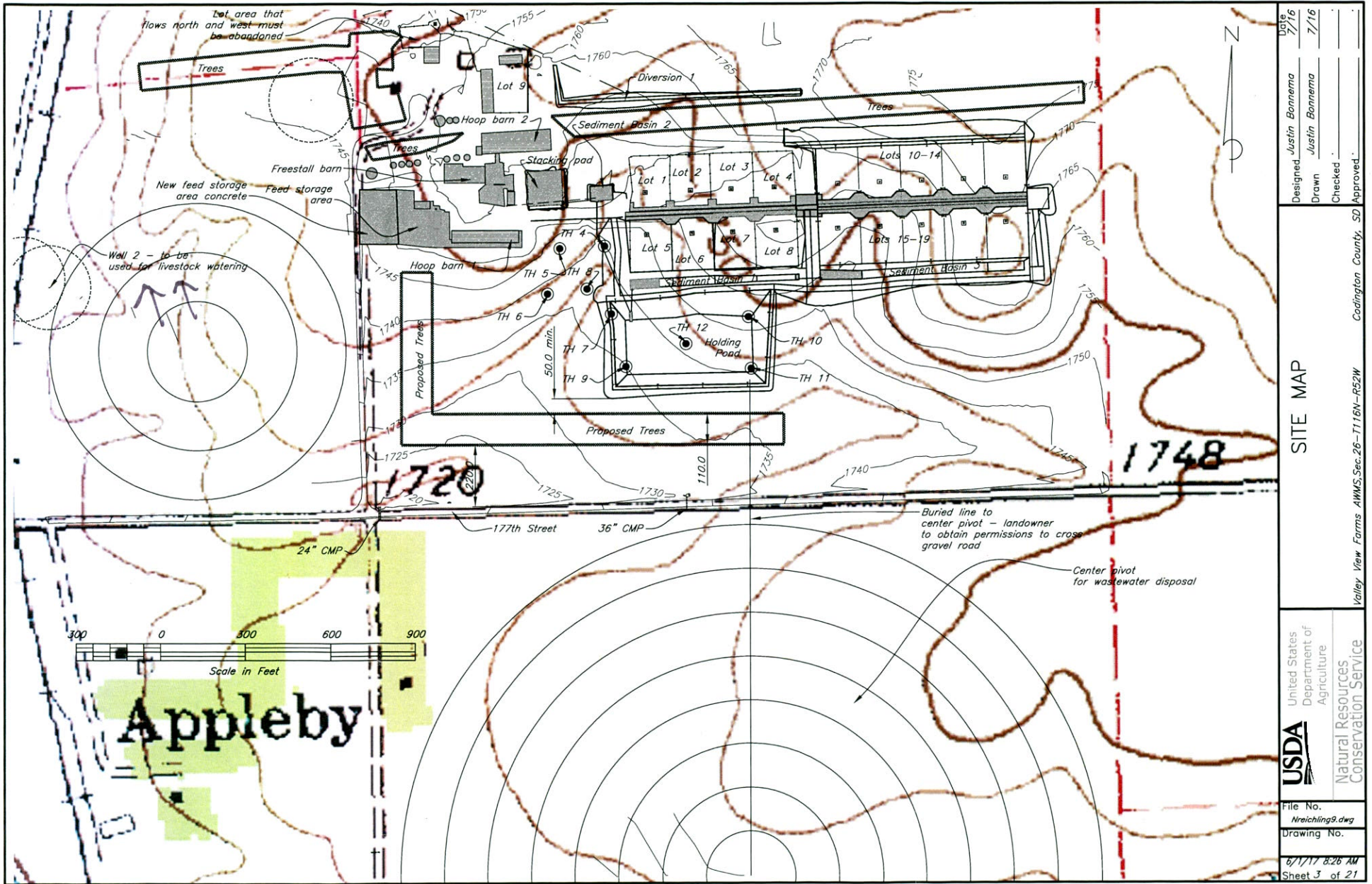
WATER RIGHTS
PROGRAMThis well was drilled under license # 63

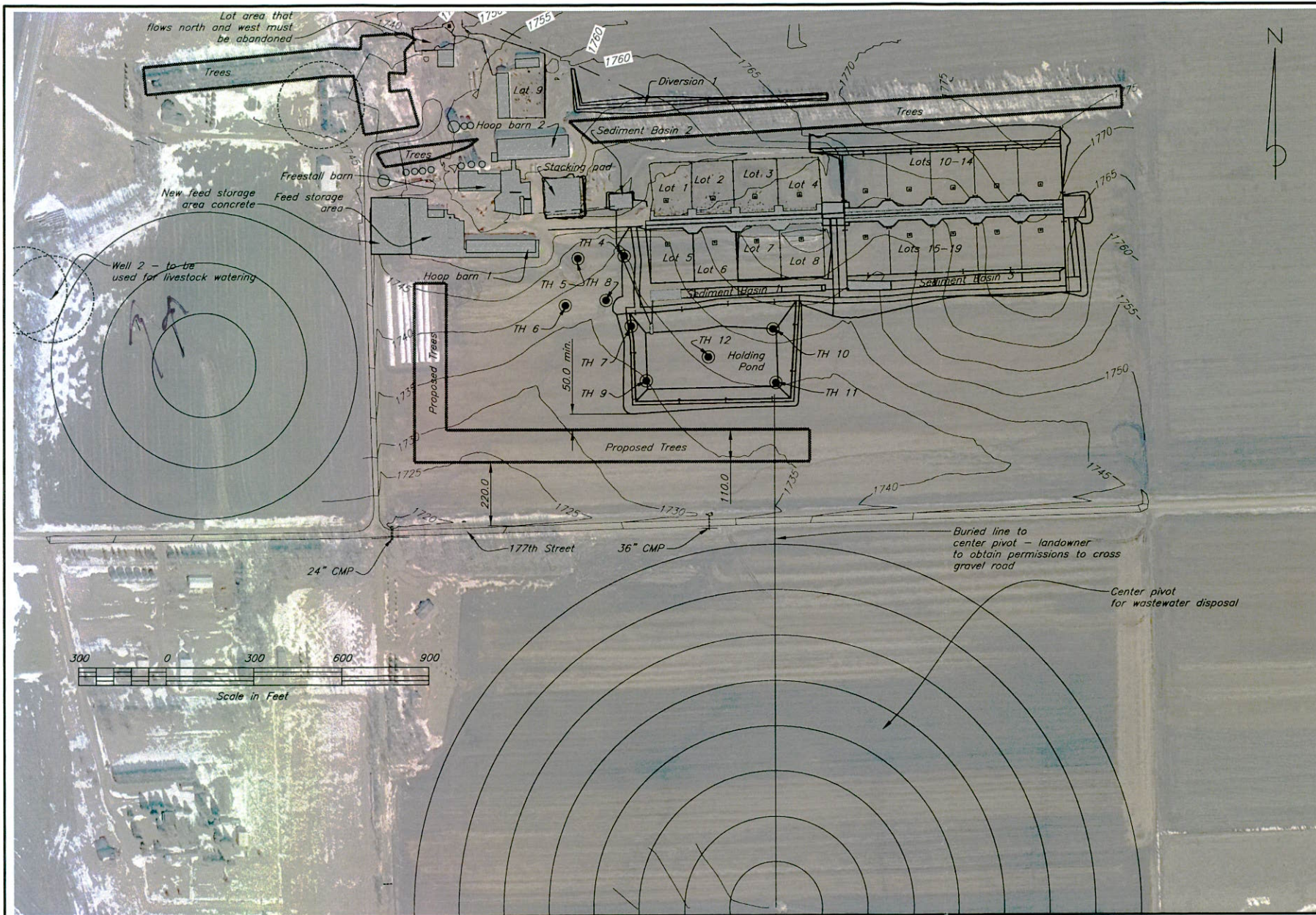
And this report is true and accurate.

Drilling firm Lee Well Drilling Inc.Signature of License Representative: [Signature]

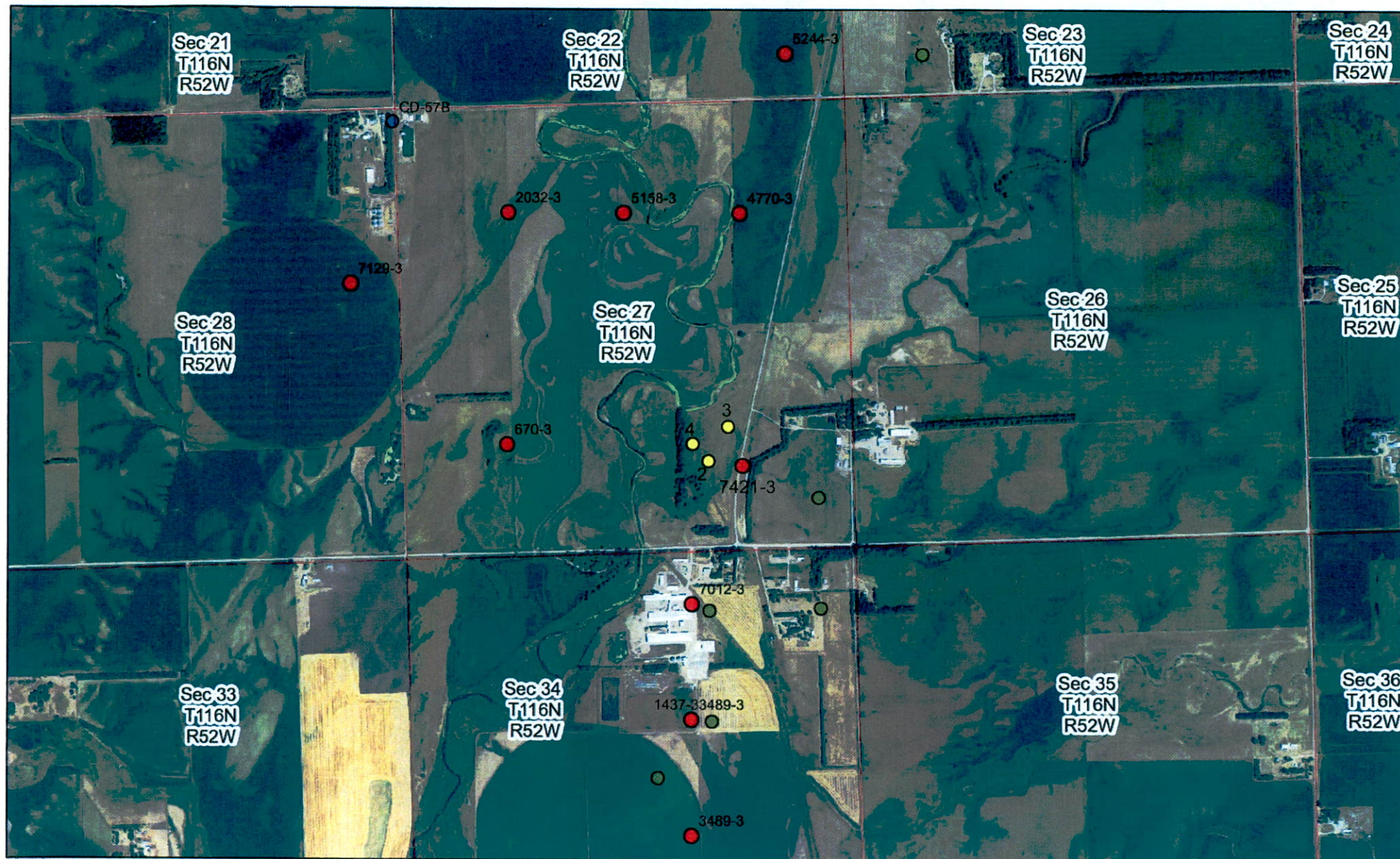
Signature of Well Owner or Equitable Property Holder: _____

Date: _____



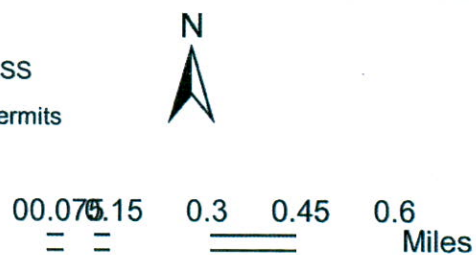


 United States Department of Agriculture Natural Resources Conservation Service	SITE MAP		Valley View Farms 4WMS, Sec. 26 - T116N - R52W Codington County, SD
	File No. Nreichling9.dwg	Date 7/16	
	Drawing No.	Designed Justin Bonnema	Drawn Justin Bonnema
	8/1/17 8:26 AM Sheet 3 of 21		



Legend

- Section Boundaries - PLSS
- Existing Licenses and Permits
- Domestic Wells
- Observation Wells
- Additional Wells



[Signature]

Prepared by Bracken Capen
Natural Resources Engineer
DENR, Water Rights Program



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date JULY 13, 2018

RECEIVED OF Valley View Farms Inc. 45802 177th St Watertown, SD 57201

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

Fee for Application for Permit No. <u>8297-3</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>8297-3</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. **08295**

By

Jeanne Goodman
Chief Engineer

vm



United States Department of Agriculture

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WATER RIGHTS
PROGRAM

Wednesday, June 14, 2017

Department of Environment and Natural Resources
Water Rights Program
523 East Capitol Ave
Pierre, SD 57501

Dear Water Rights Program,

Valley View Farms of Watertown, SD, has worked with the Natural Resources Conservation Service to prepare an application for coverage under the 2017 general water pollution control permit for concentrated animal feeding operations. As part of this process, Valley View Farms is requesting an amendment to their existing water rights permit, to accommodate diverting water from a well as needed to supply livestock (in addition to irrigation as previously permitted).

To contact the landowner, please contact:

Valley View Farms
c/o Nathan Reichling
17716 458th Ave
Watertown, SD 57201
(605) 868-7383

For further information from me, please contact me at (605) 690-6723 or
justin.bonnema@sd.usda.gov

Sincerely,



Justin Bonnema
Agricultural Engineer, PE

Enclosures

CC: Nathan Reichling, Owner/Operator of Valley View Farms, Watertown, SD



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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WATER RIGHTS
PROGRAM

June 20, 2017

Valley View Farms Inc.
c/o Nathan Reichling
17716 458th Ave
Watertown SD 57201

Dear Mr. Reichling:

Thank you for submitting the *Application for a Permit to Appropriate Water* for commercial use at a livestock facility located Codington County. In order to complete the application, the following is required.

- The application/license fee for this water use will be \$300.00.

If you have any questions, please contact me.

Sincerely,

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

Gronlund, Eric

From: Gronlund, Eric
Sent: Wednesday, September 13, 2017 3:22 PM
To: Kilts, Whitney (DENR)
Subject: Application No. 8297-3, Valley View Farms

Spoke with Nathan Reichling about which well is to be used for livestock under their pending application. I had emailed him to find out which well was to be used and included a copy of the five well completion report on file since I was not able to get ahold of him by phone. He called and said the well completed in 2012 that lists the use as domestic/stock will be the well to be used for the confinement facility. The other four wells completed in 2013 are the wells that supply the irrigation system authorized by Permit No. 7421-3. There is no connection between the one well used for livestock and the four wells used for irrigation. This is contrary to what the last sentence under the description of the project says"This well is part of the four well system currently covered by water rights for irrigation, permit 7421-3."

I am using this email as file documentation of my phone conversation with Mr. Reichling. I plan to change the publication notice accordingly. Am uncertain what changes you may need to make to the staff report.

Eric



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8297-3, Valley View Farms, Inc.**

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. 8297-3, Valley View Farms, Inc., c/o Nathan Reichling, 45802 177th Street, Watertown SD 57201.

The Chief Engineer is recommending APPROVAL of Application No. 8297-3 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. 8297-3 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. Water Permit No. 8297-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.
3. Water Permit No. 8297-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions

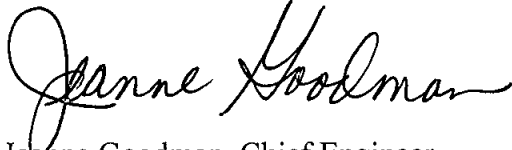
(continued)

Recommendation for Application No. 8297-3

Page 2

4. The Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux:North aquifer.
5. Water Permit No. 8297-3 authorizes a total annual diversion of 35.0 acre feet of water.

See report on application for additional information.

A handwritten signature in black ink, reading "Jeanne Goodman". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jeanne Goodman, Chief Engineer

September 14, 2017

Report to the Chief Engineer
Water Permit Application No. 8297-3
Valley View Farms Inc.
September 5, 2017

Water Permit Application No. 8297-3 for Valley View Farms, Inc. c/o Nathan Reichling proposes to appropriate 35 acre-feet of water annually and a maximum diversion rate of 0.08 cubic feet per second (cfs). The diversion point for this application is an existing well completed into the North management unit of the Big Sioux aquifer located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 27 T116N-R52W. The water is for commercial use in a livestock confinement facility located in the E $\frac{1}{2}$ SE $\frac{1}{4}$ Section 27 and the SW $\frac{1}{4}$ Section 26; all in T116N-R52W in Codington County located approximately five miles southeast of Watertown.

Aquifer: North management of the Big Sioux aquifer (BS: N)

Hydrogeologic Information and Aquifer Characteristics

The Big Sioux aquifer is a shallow, glacial aquifer that underlies the Big Sioux River Valley and many of its tributaries (Hansen, 1990). It is made up of glacial outwash ranging from medium sand to medium gravel and ranges from being well to poorly sorted (Hanson, 1990). Along the Big Sioux River and its tributaries alluvium is also present (Jensen, 2003). Near the Big Sioux River and its major tributaries, the aquifer is under unconfined conditions; elsewhere it can underlie glacial till and be under locally confined conditions (Hanson, 1990). However the Big Sioux aquifer is considered to be primarily an unconfined aquifer (Hedges et al., 1982).

The North management unit of the Big Sioux aquifer (Big Sioux: North) underlies an estimated 83,500 acres of Codington, Grant, Hamlin, and Roberts Counties (Hedges et al., 1982). Hedges et al. (1982) estimates that the Big Sioux: North aquifer contains about 187,880 acre-feet of recoverable water. The aquifer is hydraulically connected to the Big Sioux River, Lake Kampeska, Pelican Lake, and Still Lake (Putnam and Thompson, 1996).

The well completion report for this application indicates aquifer materials from 2 to 49 feet below grade with clay lenses at 18 to 19 and 22 to 24 feet below grade and reported a static water level at the time of completion (8/23/2012) of 15 feet below grade (Water Rights, 2017c). There are also four irrigation wells authorized by Water Permit No. 7421-3 for Valley View Farms in the proximity of this well site. Water Permit No. 7421-3 held by Valley View Farms Inc. authorizes the irrigation of 156 acres at a maximum diversion rate of 2.0 cfs. The four irrigation wells were drilled in summer and fall of 2013 (Water Rights, 2017c). The completion reports document well depths ranging from 28 to 43 feet below grade and static water levels ranging from 8 to 14 feet below grade. Only one of the four wells reports the depth of the underlying till and, based on the available lithologic information in the area this is likely the base of the aquifer (Water Rights, 2017c and SDGS, 2017). This well was drilled July 2013 and reported aquifer materials (sands or gravels) from 2 to 37 feet below grade with a static water

level of 14 feet below grade, which yields a saturated thickness of 23 feet at the time of completion (Water Rights, 2017c). The well site for this application is located about 0.28 miles east of the Big Sioux River. Jensen (2004), Hedges et al. (1982), and area lithologic information indicate that in the vicinity of the well site for this application the edge of the aquifer is likely less than one mile to the east of the Big Sioux River (Water Rights, 2017c and SDGS, 2017).

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

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

Water Availability

Water Permit Application No. 8297-3 proposes to appropriate water from the Big Sioux: North aquifer for commercial use. 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 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. Here, a water distribution system is not involved and the Big Sioux: North aquifer is not older or lower than the Greenhorn Formation, therefore the withdrawal/recharge issue must be considered.

A branch of the Big Sioux: North aquifer located north of Watertown is likely fully appropriated. The well site that this application proposes to utilize is located about 11 miles south of that area. Therefore, this application is not expected to have any impact on the area of the Big Sioux: North aquifer that is likely fully appropriated.

Hydrologic Budget

Recharge

Recharge to the aquifer is from infiltration of precipitation and seepage from lakes, ponds, streams, and rivers when water levels are higher than the aquifer water levels (Putnam, and Thompson, 1996). Several studies have estimated recharge rates to the Big Sioux aquifer. Hedges et al. (1985) estimated recharge rates to the management units of the Big Sioux aquifer ranging from 2.7 to 6.9 inches per year, not including the flow net analysis. By observation well analysis Hedges et al. (1985) estimated a recharge rate of 3.2 inches per year for just the North management unit of the aquifer. Hansen (1990) estimated recharge to the aquifer to range from

four to ten inches per year. Putnam and Thompson (1996) used observation well data to estimate the average annual recharge rate to the Big Sioux aquifer to be in the range of 2.9 to 5.8 inches per year for a study area consisting of primarily Grant and Codington Counties. For the steady-state modeling of the aquifer in the study area Putnam and Thompson (1996) used a recharge value of 5.53 inches per year. Applying the recharge rates from observation well analysis from Putnam and Thompson (1996) to the aquifer area of Hedges et al. (1982) yields an estimated average annual recharge range of 20,179 to 40,358 acre-feet per year.

The presentation of aquifer wide recharge and storage estimates is not meant to suggest that the entire volume of annual recharge or water in storage in the Big Sioux: North aquifer is available for use throughout the aquifer. The modeling work of Putnam and Thompson (1996) suggests the possibility that during dry conditions the production of some high capacity wells would be impacted. Putnam and Thompson (1996) noted that, “the aquifer could probably not support extensive irrigation during dry periods such as those experienced in 1980 and 1981 or in 1976.”

Discharge

Discharge from the aquifer is by withdrawals from wells, seepage to hydrologically connected surface water, groundwater outflow, and evapotranspiration where the aquifer is at or near land's surface (Hansen, 1990). In examining aquifer water levels in relation to Big Sioux River gages, Putnam and Thompson (1996) concluded that the aquifer generally discharges to the river over time. There are currently 99 water rights/permits authorized to appropriate water from the Big Sioux: North aquifer and three future use permits for the City of Watertown. Due to their relatively low diversion rates withdrawals from domestic wells are not considered to be a significant portion of the hydrologic budget.

There are 38 non-irrigation water rights/permits currently authorized to appropriate water from the aquifer. The three future use permits for the City of Watertown reserve a total volume of 3,469 acre-feet per year, and it is assumed for estimating water use that future use permits will be fully developed. Historically, average water use by non-irrigation appropriations limited by instantaneous diversion rate has been less than 60% of full time pumping at the permitted diversion rate. For water rights/permits limited to an annual volume, full use of that volume is assumed for estimation of average annual withdrawal. Using this methodology, maximum water usage under the water rights for the City of Watertown is estimated at 11,669 acre-feet per year, however, actual use (shown in Table 1) has historically been much less. Water Right No. 6595-3 for the Clark Rural Water System is for an annual appropriation of 404 acre-feet per year, however, reported use (shown in Table 1) has historically been much less. Water Right No. 5158-3 for Sioux Rural Water System had been on standby since 1998 (Buhler, 2012). Sioux Rural Water System has resumed use of one of the four wells authorized under Water Right No. 5158-3 and is considering resuming use of a second well (Friedeman, 2017). Water Right No. 5158-3 is limited by diversion rate; therefore average annual water use is estimated at less than 1,060 acre-feet per year. The remaining non-irrigation water rights/permits are limited by

diversion rate and have an estimated average annual use of 2,725 acre-feet per year. Therefore, withdrawal due to non-irrigation use water rights/permits and future use permits is estimated to be at maximum 19,328 acre-feet per year. Average annual usage (including future use) for non-irrigation water rights/permits in the aquifer is estimated to be closer to 11,060 acre-feet per year.

Table 1: Reported water use from the Big Sioux: North aquifer by Clark RWS and the City of Watertown (modified from Mathiowetz, 2015; Water Rights, 2005-2017)

Year	Clark RWS (acre-feet)	Watertown (acre-feet)
2016	156	4,208
2015	140	4,110
2014	136	4,040
2013	127	4,095
2012	108	4,260
2011	143	3,864
2010	143	3,947
2009	164	3,735
2008	127	3,984
2007	44	4,062
2006	n/a	2,961
2005	n/a	2,392
2004	n/a	2,126
Avg.	129	3,676

The Water Right Program collects irrigation data from across the state. Reported irrigation usage over the period of record from the Big Sioux: North is shown in Figure 1. Average reported pumpage over the period of record is 2,327 acre feet per year. However, starting in 2012 there has been a notable increase in acreage permitted for irrigation. Water permits issued since the start of 2012 have authorized the irrigation of 2,977 acres. This is approximately 31 percent of the total 9,567.15 acres authorized for irrigation from the aquifer. Since the permits issued since the start of 2012 only have a few years of pumping data represented in the reported irrigation pumpage, average annual irrigation usage is estimated to be a 31 percent increase from the average over the period of record. This results in an estimated average annual irrigation use of 3,050 acre-feet per year. Although it is worth noting that this estimate can be considered to be slightly conservative since irrigation data from 2012 to 2016 (which includes reported irrigation under newer permits) was included in the average that the estimate was based on.

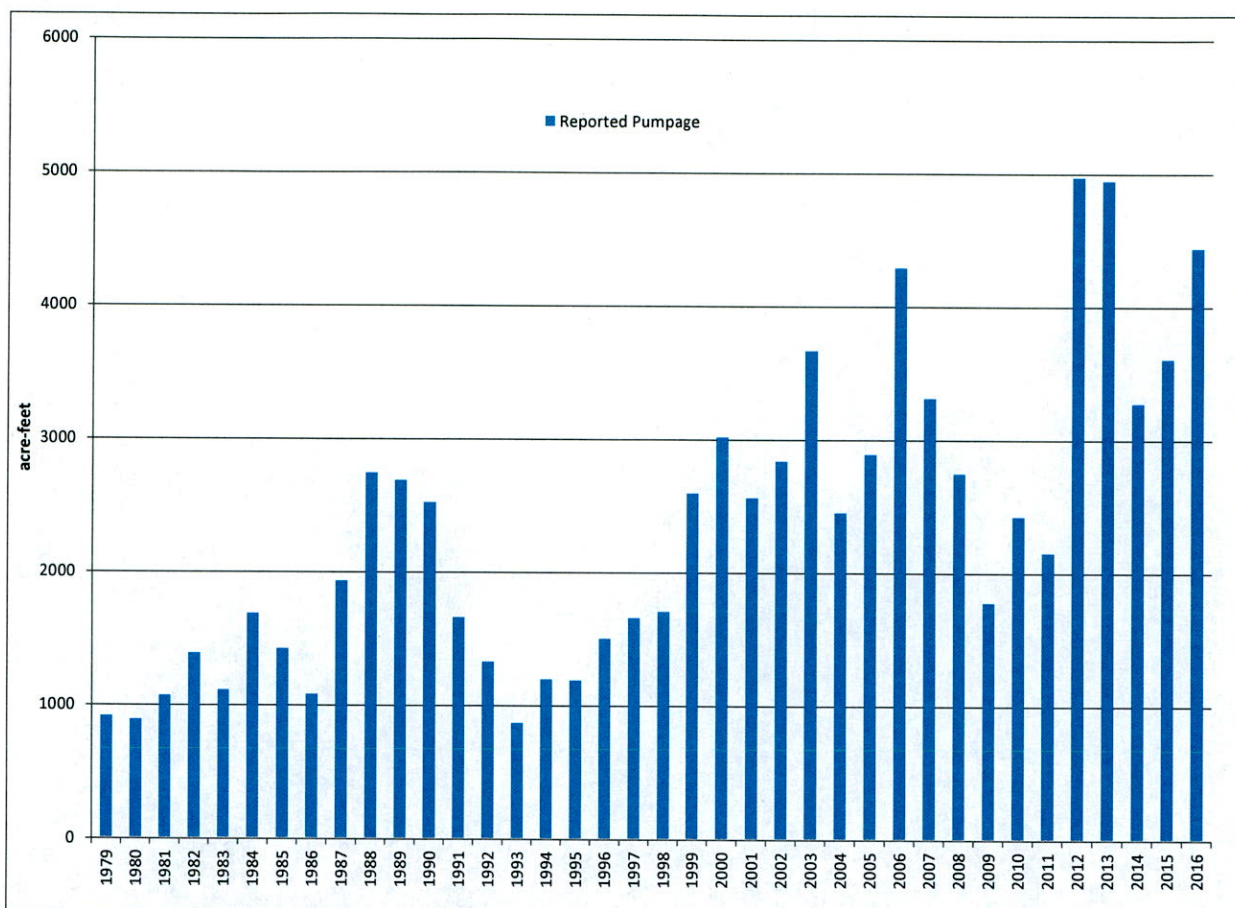


Figure 1: Reported irrigation pumpage over the period of record from the Big Sioux: North aquifer (Water Rights, 1980-2017)

Balance

The estimated average annual recharge to the Big Sioux: North aquifer ranges from 20,179 to 40,358 acre-feet per year. The estimated maximum usage from the aquifer is 22,378 acre-feet per year, however estimated average annual water use is about 14,110 acre-feet per year. Comparing these values to the estimated average annual recharge range to the aquifer the estimated maximum annual usage is toward the low end of the range, and the estimated average annual water use is less than the bottom of the estimated recharge range. Therefore, there is a reasonable probability that water is available in the Big Sioux: North aquifer for appropriation.

Observation Wells

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

The Water Rights Program monitors 28 observation wells completed into the Big Sioux: North aquifer. In general, the observation wells in the Big Sioux: North aquifer document

relatively stable water levels throughout the aquifer. Two observation wells (GT-77D and CD-76B) show recent water level decreases that stand out from historical fluctuations; these are likely reflective of localized conditions rather than conditions across the entire aquifer. The nearest observation well to the well site is CD-57B located about 1.25 miles to the northwest. The hydrograph for this observation well is shown in Figure 2. Water levels in the observation well increase during wet periods and gradually decrease during dry periods, this is in general typical of other observation wells in the aquifer. Observation wells in the Big Sioux: North aquifer demonstrate that the aquifer responds well to climatic conditions, with the response of the aquifer to climatic conditions masking the effects of well withdrawals. This indicates that natural conditions dominate the aquifer, and that recharge to and natural discharge from the aquifer exceeds pumping. Since recharge to and natural discharge from an aquifer can be captured for pumping, there is a reasonable probability that unappropriated water is available.

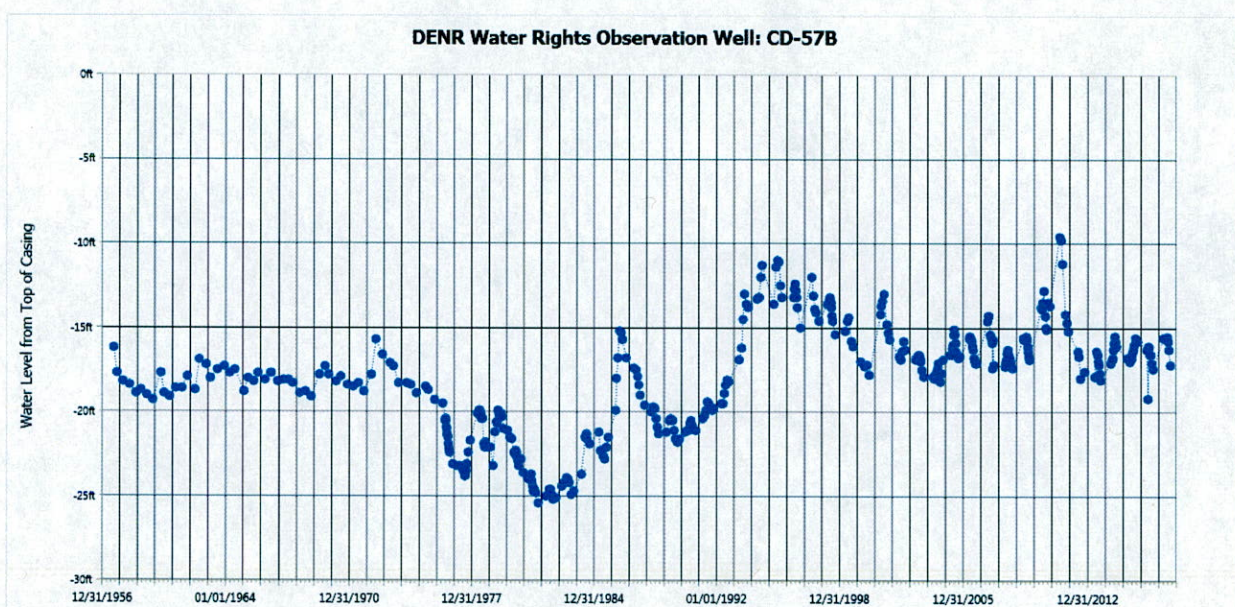


Figure 2: Hydrograph of observation well CD-57B (Water Rights, 2017a)

Existing Water Rights

Area water rights/permits currently authorized to appropriate water from the Big Sioux: North in the area of the well site are shown in Figure 3 and summarized in Table 2. The nearest water right/permit to the well site for this application not held by Valley View Farms is Water Permit No. 7012-3 held by Sioux River Dairy Inc. The well site for this application and the well sites for Water Permit No. 7012-3 are estimated to be about 0.25 miles apart, however since a licensing inspection has not been conducted on either Water Permit No. 7012-3 the actual distance between well sites could vary from what is estimated (Water Rights, 2017b; Water Rights, 2017c). Sioux Rural Water Use has recently resumed use from standby of one of the four wells authorized under Water Right No. 5158-3 and is consider resuming use of another well

(Friedeman, 2017). The two noted wells authorized under Water Right No. 5158-3 are those on the west side of the Big Sioux River (Friedeman, 2017; Water Rights, 2017b). There are several domestic/stock wells on file with the Water Rights Program within one-half mile that are likely completed into the same aquifer (Water Rights, 2017c). These wells appear to be associated with either Valley View Farms or the property to the south (Water Rights, 2017c).

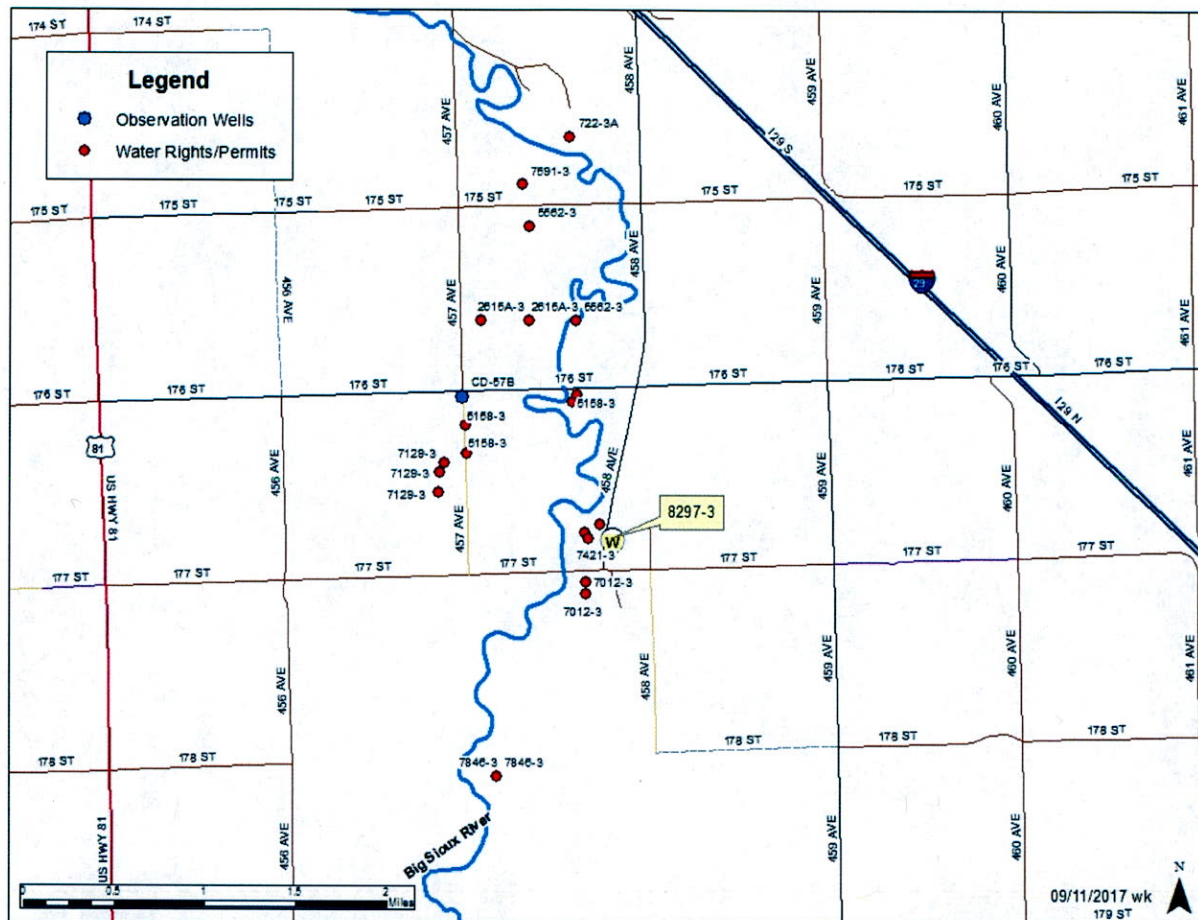


Figure 3: Area water rights/permits currently authorized to appropriate water from the Big Sioux: North aquifer in the area of the well site for Application No. 8297-3 (Water Rights, 2017a and Water Rights, 2017b)

Table 2: Summary of Water Rights/Permits shown in Figure 3 (Water Rights, 2017c)

Permit No.	Name	Status	Use	Rate (cfs)	Acres
722-3A	Scott Simon	LC	IRR	0.64	45
2615A-3	Robert L. Endres	LC	IRR	1.67	136
5158-3	Sioux Rural Water System	LC	RWS	2.44	0
5562-3	Robert L. Endres	LC	IRR	1.66	136
7012-3	Sioux River Dairy Inc.	PE	COM/LCO	0.089	n/a
7129-3	Gordon Little	PE	IRR	1.78	140
7421-3	Valley View Farms Inc.	PE	IRR	2	156
7591-3	Robert Raml	PE	IRR	1.11	78
7846-3	Roxan Schmit	PE	IRR	1.33	120

LC-license, PE-permit, IRR-irrigation, RWS-rural water system, COM- commercial, LCO- livestock confinement operation

In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. Administrative Rule of South Dakota (ARSD) 74:02:04:20(7) defines an adversely impacted domestic well as “a well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs.” Since the aquifer is under unconfined conditions, drawdown due to pumping would not be expected to be significant far from the well site. Furthermore, observation well CD-57B is within one mile of several high capacity wells (Figure 3), and the hydrograph (Figure 2) shows climatic conditions masking the impacts of pumping. This further indicates that drawdown due to pumping is expected to be minimal within a short distance of the pumping well. Average reported irrigation by Valley View Farms Inc. under Water Permit No. 7421-3 from 2013 to 2016 is approximately 88 acre-feet per year (Water Rights, 1980-2017). Water Permit No. 7421-3 was not contested, and Water Rights files do not indicate any complaints associated with the pumping under this permit (Water Rights, 2017b). Given the unconfined condition of the aquifer at the well site, the relatively small diversion rate proposed by this application is not expected to significantly increase drawdown as a result of pumping in the area.

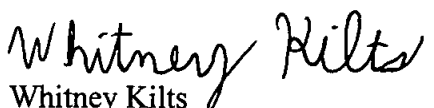
In the area of the well site, the aquifer is relatively thin, and there is an aquifer boundary to the east in relatively close proximity to the well site (Water Rights, 2017c; SDGS, 2017). As the radius of influence for a pumping well expands and encounters impermeable/low permeability aquifer boundaries, drawdown in the other directions will increase. To the west of the well site the Big Sioux River is expected to act as a recharge boundary, and increased drawdown from pumping will increase capture from the nearby recharge boundary (the river). Increased capture from the river will decrease the extent of drawdown around the pumping well. Due to the close proximity of the wells for Valley View Farms Inc. to each other, drawdown as a result of pumping from the wells will likely impact each other before any potential impacts would be noted by other water rights/permits in the area. Since the applicant has multiple wells in the area of the well site for this application, the management of all wells

will be needed to minimize the impact of drawdown of the wells on each other. This management would be expected to be a limitation on any drawdown impacts to other users in the area. Additionally, available information indicates the presence of wells other than the applicants between the well for this application and the edge of the aquifer to the east is unlikely (Water Rights, 2017c; SDGS, 2017; Jensen, 2004; Hedges et al., 1982).

The Big Sioux: North aquifer is a relatively thin aquifer with a limited amount of water in storage. While the best available information indicates that long term average annual withdrawals would not exceed average annual recharge to the aquifer, short term conditions may occur when withdrawals exceed recharge. When this occurs, water will be removed from storage, consequently reducing the saturated thickness of the aquifer. If the saturated thickness is reduced to the extent that the water rights/permits can no longer pump at their developed or “historically established” rates, this may be considered an adverse impact. Therefore, as a precaution, this water permit, if approved, should include a qualification that the well owner shall control their withdrawals so there is not a reduction of needed water supplies for adequate domestic wells or for adequate wells having prior water rights. However, when all of the above is considered nearby adequate wells as defined by ARSD 74:02:04:20(6) are not expected to be adversely impacted by the appropriation proposed by this application.

Conclusions

1. Water Permit Application No. 8297-3 for Valley View Farms, Inc. c/o Nathan Reichling proposes to appropriate 35 acre-feet of water annually and a maximum diversion rate of 0.08 cfs. The diversion point for this application is an existing well completed into the North management unit of the Big Sioux aquifer located in the SE ¼ SE ¼ Section 27 T116N-R52W. The water is for commercial use in a livestock confinement facility located in the E ½ SE ¼ Section 27 and the SW ¼ Section 26; all in T116N-R52W.
2. There is a reasonable probability that water is available in the Big Sioux: North.
3. There is a reasonable probability that pumping under this permit, if approved, will not adversely impact existing water rights/permits with adequate wells or adequate domestic wells as defined by ARSD 74:02:04:20(6).


Whitney Kilts
SDDENR Water Rights Program

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- Water Rights. 2017c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

**DEPARTMENT
OF
ENVIRONMENT
AND NATURAL
RESOURCES**

RECEIVED

OCT 02 2017

WATER RIGHTS
PROGRAM**PROOF OF PUBLICATION**

STATE OF SOUTH DAKOTA)

County of Codington) SSI, Jackie Wettstad

certify that the attached printed Notice was taken

from the WatertownPublic Opinionprinted and published in WatertownCounty of Codington and

state of South Dakota. The notice was published

in the newspaper on the following date:

September 21, 2017Cost of Printing \$50.96Jackie Wettstad

(Signature)

Accounting Clerk

(Title)

9-28-17

(Date Signed)

NOTICE OF APPLICATION NO.

8297-3 to Appropriate Water

Notice is given that Valley View

Farms, Inc. c/o Nathan Reichling,

45802 177th St, Watertown SD

57201 has filed an application for

a water permit to appropriate 35

acre-feet of water annually at a

maximum pump rate of 0.08 cu-

bic feet of water per second from

one existing well completed into

the Big Sioux North Aquifer (49

feet deep) located in the SE 1/4

SE 1/4 Section 27 for commercial

use in a livestock confinement

facility located in the E 1/2 SE

1/4 Section 27 and the SW 1/4

Section 26; all in T118N-R52W.

The site is located approximately

5 miles southeast of Watertown.

Pursuant to SDCL 46-2A-2,

the Chief Engineer recommends

APPROVAL of Application No.

8297-3 with qualifications be-

cause 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 recommenda-

tion with qualifications, the appli-

cation, and staff report are avail-

able at <http://denr.sd.gov/public>

or contact Eric Gronlund for this

information, or other information,

at the Water Rights Program ad-

dress provided below.

Any person interested in oppos-

ing 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 En-

gineer'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 in-

terested person or the applicant

must be filed by October 2, 2017.

The petition may be informal,

but must include a statement de-

scribing the petitioner's interest

in the application, the petitioner's

reasons for opposing or sup-

porting 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 op-

pose the application is received,

the Chief Engineer shall act on

the application pursuant to the

recommendation with no hearing

held before the Water Manage-

ment 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.

Steven M. Pimer, Secretary,

Department of Environment and

Natural Resources.

Published once at an

approximate cost of \$51.89

(September 21, 2017)

All legal notices in the Public
Opinion and other South Dakota
newspapers can be found at
sdpublicnotices.com

Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, September 14, 2017 10:25 AM
To: legals@thepublicopinion.com
Subject: 8297-3, Valley View Farms Inc
Attachments: 8297-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on September 21, 2017.

Valley View Farms Inc, c/o Nathan Reichling, 45802 177th St, Watertown SD 57201 (605 886-8961) 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

SD DENR, Water Rights Program
(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 RIGHT AWAY.**

September 14, 2017

Valley View Farms Inc.
c/o Nathan Reichling
45802 177th St
Watertown SD 57201

Dear Mr. Reichling:

Water Permit Application No. 8297-3 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Public Opinion printed at Watertown SD (Ph # 605-886-6901). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

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.

Instruction to Newspaper - Publish the Notice on September 21, 2017. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 8297-3 to Appropriate Water

Notice is given that Valley View Farms, Inc. c/o Nathan Reichling, 45802 177th St, Watertown SD 57201 has filed an application for a water permit to appropriate 35 acre-feet of water annually at a maximum pump rate of 0.08 cubic feet of water per second from one existing well completed into the Big Sioux:North Aquifer (49 feet deep) located in the SE 1/4 SE 1/4 Section 27 for commercial use in a livestock confinement facility located in the E 1/2 SE 1/4 Section 27 and the SW 1/4 Section 26; all in T116N-R52W. The site is located approximately 5 miles southeast of Watertown.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8297-3 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 Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 2, 2017.

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.

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

OCT 20 2017

Valley View Farms Inc
c/o Nathan Reichling
45802 177th St
Watertown SD 57201

Dear Mr. Reichling:

Enclosed is Water Permit No. 8297-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

A 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 information 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-

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8297-3**

(1) Valley View Farms Inc., 17716 458th Ave., Watertown SD 57201 made Application No. 8297-3, June 16, 2017, for a water permit to divert 0.08 cubic feet of water per second with an annual volume of 35 acre feet from ground water, one well (Big Sioux North Aquifer), Codington County, South Dakota for commercial purposes. Permit No. 8297-3, with a priority date of June 16, 2017, was approved October 2, 2017, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before October 2, 2022, and for the application to beneficial use of water on or before October 2, 2026.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 0.08 cubic feet of water per second with an annual volume of 35 acre feet of water for beneficial use. The location of the diversion point is:

- Approximately 885'N & 1,205'W of the SE corner of Section 27, T116N, R52W (SE $\frac{1}{4}$ SE $\frac{1}{4}$)
Latitude 44.82091, Longitude -97.05176

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use in a livestock confinement facility. The facility is located in the E $\frac{1}{2}$ SE $\frac{1}{4}$ Section 27 and the SW $\frac{1}{4}$ Section 26, T116N, R52W.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Valley View Farms Inc., 17716 458th Ave., Watertown SD 57201 the holder and/or owner of Water Right No. 8297-3 is issued a license to appropriate water, the right to use 0.08 cubic feet of water per second from ground water, one well (Big Sioux North Aquifer) with a priority date of June 16, 2017, from the location specified in (2) of this license for commercial purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8297-3 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this 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.
- Water Right No. 8297-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.
- Water Right No. 8297-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions

continued

Water License No. 8297-3
Page 2

- The Water Right holder shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux North Aquifer.
- Water Right No. 8297-3 authorizes a total annual diversion of 35.0 acre feet of water.

Eric Gronlund

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

MAY 24 2023

date



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8297-3

I have these days, April 26 and May 10, 2023, made a thorough examination of the water use system constructed by Valley View Farms, Inc; 45802 177th St, Watertown, SD 57201 of Permit No. 8297-3, bearing the priority of August 29, 2012 authorizing the diversion of 0.08 cu. ft. per of the waters of the Big Sioux; North Aquifer for commercial purposes, in Codington County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lee Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 49 feet
- 4) Well log is available Y
- 1) **Casing:**
- 2) Diameter 6 inches
- 3) Length 37 feet
- 4) Type Plastic

Screen:

- 1) Type Plastic
- 2) Length 12 feet
- 3) Static water level 15 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 30-35 GPM

Motor: Unknown

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

- 1) Type Buried PVC
- 2) Size 3 inches
- 3) Length 700 feet

C. Compliance with Permit Requirements:

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

D. Condition and Location:

1. The system is in **good** condition with the point(s) of diversion located as follows: **WELL LOCATION From the SE corner Sec 27 T116N R52W WELL: 885 ft N 1,205 ft W, Lat 44.82091, Long -97.05176 (SE ¼ SE ¼) (50 feet from irrigation well)**

the license should be issued for **0.08** cfs

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

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

Nathan Reichling (son) is now in charge of the operation with an address of 17716 458th Ave, Watertown, SD 57201 and a cell number of 605/868-7383.

The pump is rated at 30 gpm according to Nathan Reichling (see note at the bottom of report)

I talked to Nathan's mother (Tom's wife) during the field inspection visit and with Nathan on the phone at a later date.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

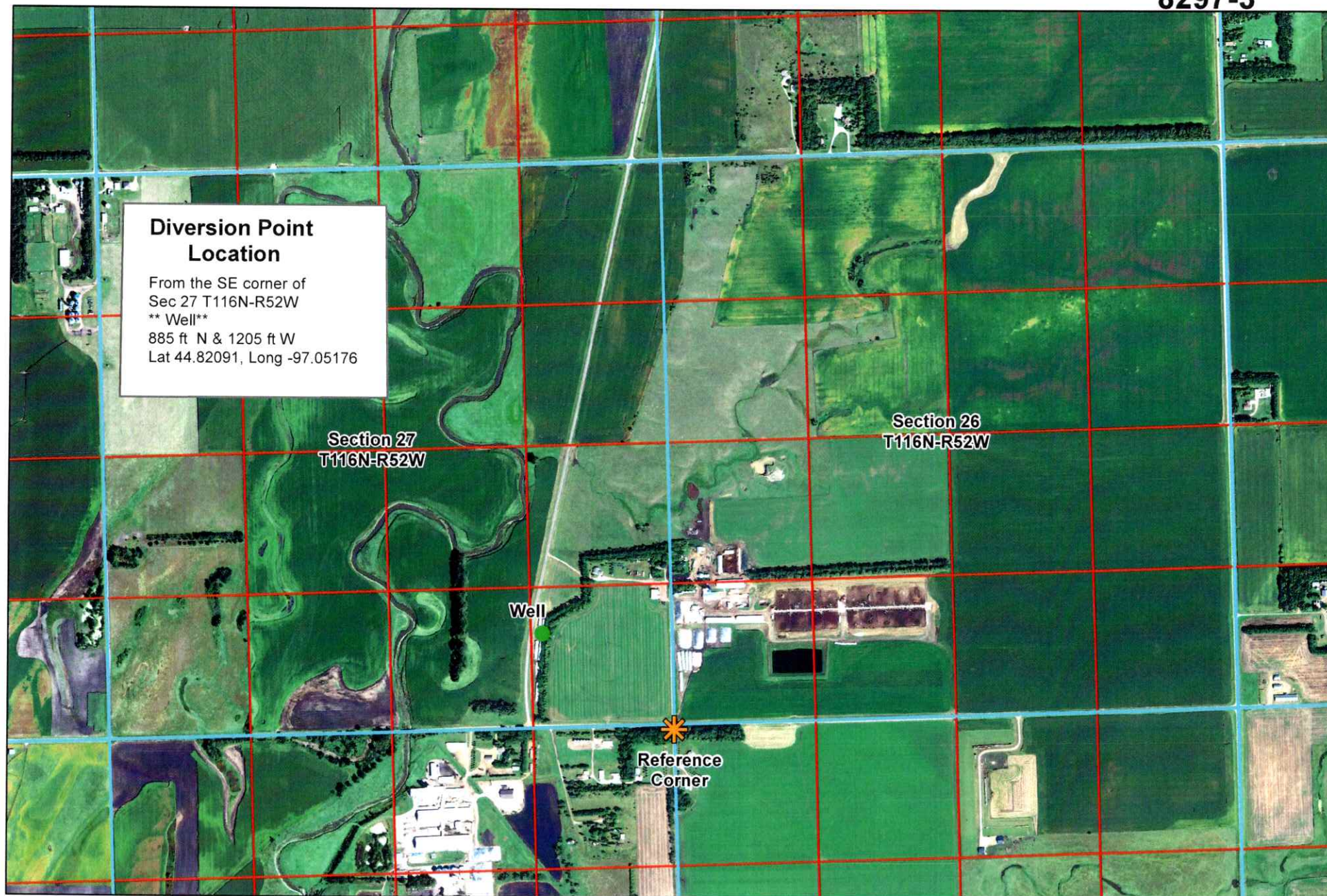
Date report completed: **May 15, 2023**

Note:

May 19, 2023: Darrell spoke with Nathan Reichling and found the pump size to be currently at 30 gpm.

They have until **October 2026** to put water to beneficial use. I contacted Nathan to find out if they were sticking with the 30 gpm or if they plan on increasing to the authorized rate of 35 gpm. He said they would get up to the 35 gpm. License for the permitted amount of 0.08 cfs or 35 gpm.

Genny



0 900 1,800 3,600 5,400 7,200 Feet



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

MAY 24 2023

8297-3

Nathan Reichling
Valley View Farms Inc
17716 458th Ave
Watertown SD 57201

Dear Mr. Reichling:

Enclosed is Water License No. 8297-3. 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