

WATER PERMIT NO. 1977-1

Name of Applicant: T C & G Water Association

Address: PO Box 95, Glencross SD 57630 Phone: 605 845-8567

Amount of Water Claimed: 0.04 cfs Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: rural water sysem use County: Dewey

Type of Waste Disposal System:

Location: 4 miles northeast of Timber Lake

PRIORITY Date Received: 3-19-18 Application/License Fee: \$ 300 (refund \$100)

Corrected Application Received: Period of Annual Use: January 1 – December 31

Remarks: Replacement well for 1530-1. Increasing the diversion rate.

Diversion Point: NE 1/4 NE 1/4 Sec 2-T17N-R52E

Land to be Irrigated: NA

Depth of Well: 85

Well Driller: Gregg's Drilling & Excavating

Remarks:

Type of Map: topo

Prepared by:

Reviewed and the Number Assigned on: 3-19-18

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

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			2		

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MAR 19 2018

WATER RIGHTS
PROGRAM

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>1977-1</u>	(office use only) Hydrologic Unit <u>10130303</u>
	Basin <u>Grand River</u>	
	Newspaper <u>Timber Lake Topic</u>	
	<u>Corson/Sioux County News Messenger</u> <u>Capital Journal</u>	

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

Check use(s) of water:

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

Type of Application:
(check one)

☐ New	☐ Vested Right (Use predates Mar 2, 1955)	☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____		
☒ Amendment/Correction to Permit No. <u>1530-1</u>		

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

Increase water diversion to 123 cubic feet of water per second from
existing rate of 0.09 cubic feet per second for rural water system use.

1. Name to Appear on Water Permit TC+G Water Association

Mailing Address P.O. Box 95; Glencross, SD 57630 over →
 (Address) (City) (State) (Zip Code)

Phone (605)-845-7206 Mobile (605)-845-8567 Email jvoegele@westriv.com

2. Amount of water claimed 0.033 *CFS or 55 **GPM and 24.5 ***AF or 8 million Gallons per year
 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 groundwater well - Fox Hills Formation, Dewey County, S.D.

4. Location of point of diversion 1 well in Sec. 2-T17N-R25E (NE 1/4 NE 1/4) County Dewey
 (example - 3 wells in SW 1/4 NE 1/4 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? All of TC+G System Area
 (example - NW 1/4 section 12-T104N-R53W)

5. County or counties where water will be used Dewey + Corson

6. Annual period during which water is to be used All 12 months of the 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)

Existing well had casing issues which could Not be repaired -
Had to drill New Well 40' From existing well.

I, Jason Voegele operations manager, the applicant, certify under
 Name of Person Title (if applicable)

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

Preferred Address

Jason Voegelé

Operations Manager

909 5th Ave West

Mobridge, SD 57601

**SOUTH DAKOTA
WATER PERMIT NO. 1977-1**

Date of first receipt of application March 19, 2018.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1977-1 to T C & G Water Association, PO Box 95, Glencross SD 57630 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. 1977-1 increases the diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 appropriates 0.09 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 2-T17N-R25E for rural water system use. This permit authorizes increasing the maximum pump rate by 0.033 cfs from a replacement well. The replacement well is completed into the Fox Hills Aquifer (85 feet deep) located in the NE 1/4 NE 1/4 Section 2-T17N-R25E. This permit will authorize a total diversion rate of 0.123 cfs (55 gallons per minute). The combined volume withdrawn under Water Right No. 1530-1 and Permit No. 1977-1 will be 24.5 acre-feet of water annually. The site is located 4 miles northeast of Timber Lake SD.
2. The water appropriated shall be used for the purpose of rural water system serves users in Dewey and Corson Counties 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. 1977-1 is May 21, 2018.
5. The date from which applicant may claim right is March 19, 2018 (0.033 cfs).
6. One-fifth of the construction is to be completed on or before November 21, 2020.
7. All construction is to be completed on or before May 21, 2023.
8. Water is to be put to beneficial use on or before May 21, 2027.
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 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 permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Fox Hills aquifer.
3. Water Right No. 1530-1 and Water Permit No. 1977-1 authorize a total annual diversion of 24.5 acre feet of water.
4. The abandoned well shall be plugged in accordance with Water Management Board Well Construction Rules, Chapter 74:02:04.

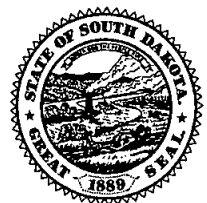
WATER MANAGEMENT BOARD

By: _____

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

JUN 14 2018

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 Have test holes been drilled ☒ Yes ☐ No Drilled by Gregg's Drilling / Mahabadi, SD
(if yes, please provide copies of logs)

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

For either Existing or Proposed Wells:

c) Well Depth (required) 85' Depth to Top of Water Bearing Material 58' Depth to Water from Surface 22'

d) Distance to nearest domestic well on applicant's property Property owned by others 3000'

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)

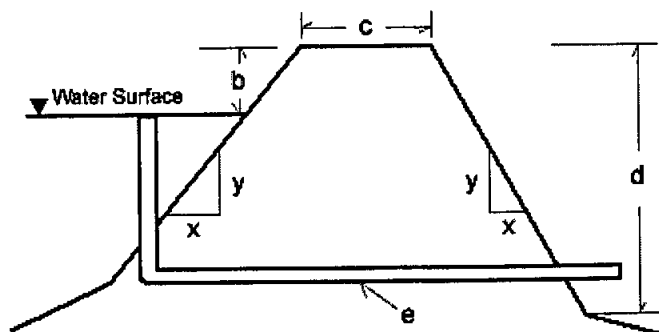
Upstream

Downstream

h) Surface Area of Impoundment

i) Storage Acre Feet

j) Drainage Area Above Dam Acres



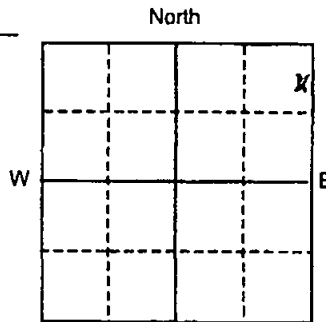
Water Right Nos. (972-1) & 1530-1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NE 1/4 Sec 2 Twp 17N Rg 8ECounty Dewey

Please mark well location with an "X"



#2 Well

Well Completion Date

11-21-2017

1 Mile

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

35 ft. from old well abandoned (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Mud Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
<u>15.59</u>	<u>11.32</u>	<u>above</u>	<u>39'</u>	<u>18"</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	FT	FT
<u>Neat Cement</u>	<u>14</u>	<u>15</u>	<u>9</u>	<u>27</u>
<u>Bentonite Pellets</u>	<u>56</u>	<u>10</u>	<u>27</u>	<u>28</u>

Describe grouting procedure Pumped in from bottom up through 1" Tremie pipe

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12" Inches Length 45' FeetMaterial 304 Stainless ScreenSlot Size .030 Set From 39' Feet to 24' FeetOther information Gravel pack w/ #120 Red Flint 30 to 24' #40 Red Flint 24' to 30'

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION:

Was well disinfected upon completion? Chlorine
☒ Yes, How solution circulated in
☐ No, Why Not? well

Lab to which water quality sample sent for analysis

Well Owner: TC & G Water Association

Business Name:

Address: 13485 25th Ave.City, State, Zip: Glencross, S.D. 57630

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>Brown sand & sandstones</u>	<u>1</u>	<u>3</u>
<u>Brown-yellow cemented sand</u>	<u>3</u>	<u>27</u>
<u>Gray-Blue sand & sandstone</u>	<u>27</u>	<u>55</u>
<u>Gray-Blue sand & sandy clay stringers</u>	<u>53</u>	<u>55</u>
<u>Gray-Blue sandy clay</u>	<u>55</u>	<u>98</u>
<u>Gray sandy clay & clay</u>	<u>98</u>	<u>106'</u>
<u>Gray sandstone 16' to 17' & 40' to 41'</u>		

STATIC WATER LEVEL

16.16

FEET

If flowing: closed in pressure

PSI

GPM flow

through

Inch pipe

Controlled by

☐ Valve

☐ Reducers

☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: Developed well for 17 hours air surging off on.
☐ Bailed
☐ Other

Pumping Level Below Land Surface

43'

Fl. After

9

Hrs. pumped

46

GPM

Recovery to

Fl. After

1

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

REMARKS

Well will be used for TC & G water systemFox Hills AMThis well was drilled under license # 231 and this report is true and accurate.Drilling firm: Gregg's Drilling & Excavating

Signature of License Representative:

Gregg Grawski

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date:

JAN 16 2018

WATER RIGHTS PROGRAM

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date March 19

20 18

RECEIVED OF T.C.&G. Water Association 13485 258th Ave glencross, SD 57630

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	200	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. _____	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	400 00

No. **08631**

By Jeannie Goodman
Chief Engineer

7427



**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. 1977-1, T C & G Water Association**

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. 1977-1, T C & G Water Association, c/o Jason Voegelé, Operating Manager, PO Box 95, Glencross SD 57630.

The Chief Engineer is recommending APPROVAL of Application No. 1977-1 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 permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Fox Hills aquifer.
3. Water Right No. 1530-1 and Water Permit No. 1977-1 authorizes a total annual diversion of 24.5 acre feet of water.
4. The abandoned well shall be plugged in accordance with Water Management Board Well Construction Rules, Chapter 74:02:04.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
April 30, 2018

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 1977-1
T C & G WATER ASSOCIATION
C/O JASON VOEGELE, OPERATIONS MANAGER
APRIL 30, 2018

Water Permit Application No.1977-1 proposes to increase the maximum instantaneous diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 authorizes the withdrawal of water from the Fox Hills aquifer at a maximum instantaneous diversion rate of 0.09 cubic feet of water per second (cfs) (40 gpm) from one well located in the NE ¼ NE ¼ Sec. 2-T17N-R25E for rural water system use. This application proposes to increase the maximum instantaneous diversion rate authorized by Water Right No. 1530-1 by 0.033 cfs (15 gpm) from a replacement well completed into the Fox Hills aquifer. The replacement well is 85 feet deep and located in the NE ¼ NE ¼ Sec. 2-T17N-R25E in Dewey County approximately 4 miles northeast of Timber Lake, SD. Water Right No. 1530-1 and this application, if approved, would authorize an annual volume of 24.5 acre-feet (ac-ft) at a maximum instantaneous diversion rate of 0.123 cfs (55 gpm). The rural water system serves users in Dewey and Corson Counties.

AQUIFER: Fox Hills (FXHL)

Aquifer Characteristics:

The Fox Hills aquifer is the porous, saturated portion of the Fox Hills Sandstone, which underlies much of northwestern South Dakota (Martin et. al, 2004). The Fox Hills Sandstone consists of very fine to coarse-grained, glauconitic sandstone and siltstone, interbedded with gray and green to brown shale and silty shale (Martin et. al, 2004). The Fox Hills is often found under confined conditions but near outcrop areas may be under unconfined conditions. The Fox Hills aquifer underlies approximately 11,630 square miles and contains an estimated 50,735,000 acre-feet of recoverable water in storage in South Dakota (Allen, Iles, and Petres, 1985).

The well completion report filed with this application indicates the Fox Hills Sandstone was encountered at ground surface and is at least 98 feet thick. The static water level at the time of well completion (November 21, 2017) was 16.6 feet below ground surface. The Fox Hills aquifer is unconfined at the well location. Figure 1 is a map of the area including Fox Hills aquifer observation wells and water rights/permits. Table 1 is a list of the water rights/permits shown in Figure 1.

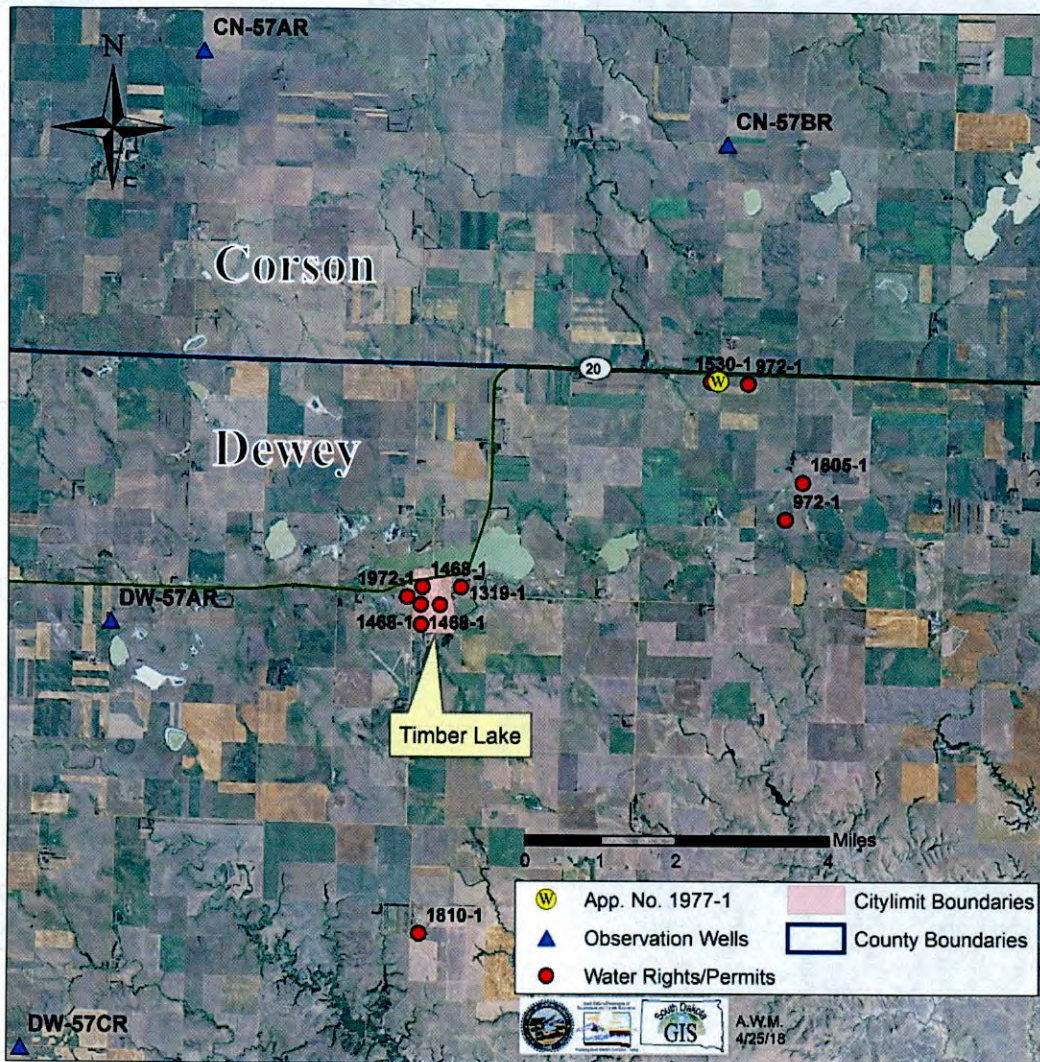


Figure 1- Map of project area including Fox Hills aquifer water rights/permits (Water Rights, 2018b), observation wells (Water Rights, 2018a), and the applicant's well site

Table 1- Water rights/permits shown in Figure 1 (Water Rights, 2018b)

PERMIT NO.	NAME	STATUS	USE	CFS	ACRES
972-1	T C & G WATER ASSOC	LC	RWS	0.31	n/a
1319-1	TIMBER LAKE CHEESE CO INC	PE	COM	0.05	n/a
1468-1	CITY OF TIMBER LAKE	LC	MUN	0.47	n/a
1530-1	T C & G WATER ASSOC	LC	RWS	0.09	n/a
1805-1	T C & G WATER ASSOC	PE	RWS	0.22	n/a
1810-1	LITTLE MOREAU ELK RANCH LLC	PE	COM/DOM	0.044	n/a
1972-1	TIMBER LAKE SCHOOL DISTRICT 20-3	PE	IRR	0.1	2

LC= Water Right, PE= Water Permit, RWS= Rural Water System, COM= Commercial, MUN= Municipal, DOM= Domestic, IRR= Irrigation

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 Fox Hills 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 recharge compared to withdrawal. While the applicant is a water distribution system, the aquifer is not older or stratigraphically lower than the Greenhorn Formation. Therefore, recharge as compared to withdrawal does need to be considered.

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 monitors nine observation wells completed into the Fox Hills aquifer (Water Rights, 2018a). There are four Fox Hills aquifer observation wells within approximately 13 miles of the well this application proposes to use. Observation wells CN-57BR, CN-57AR, DW-57AR, and DW57CR are approximately 3.1 miles north, 8 miles northwest, 8.6 miles southwest, and 12.7 miles southwest of the well site, respectively. The other five Fox Hills aquifer observation wells are in Harding County and all are more than 100 miles away from the well this application proposes to use.

Figure 2 shows the hydrographs for observation wells CN-57BR, CN-57AR, DW-57AR, and DW57CR. The water levels shown for these observation wells are representative of the water levels in the other Fox Hills aquifer observation wells. The hydrographs for all of the observation wells show that over the period of record the water level in the Fox Hills aquifer has been stable to rising. The water levels in the observation wells rise during wetter periods when recharge to the aquifer exceeds withdrawals plus discharge and slowly declining during drier periods when withdrawals plus natural discharge exceed recharge. The hydrographs document the dominance of the long term effects of climate on changes in water level compared to temporal impacts caused by pumping. The hydrographs show no or minimal impacts caused by pumping on the water level over the period of record. This means recharge to and natural discharge from the aquifer significantly exceed pumping. Recognizing that recharge to and natural discharge from

an aquifer can be captured for pumping, the hydrographs document there is unappropriated water available for this proposed appropriation as required by SDCL 46-2A-9.

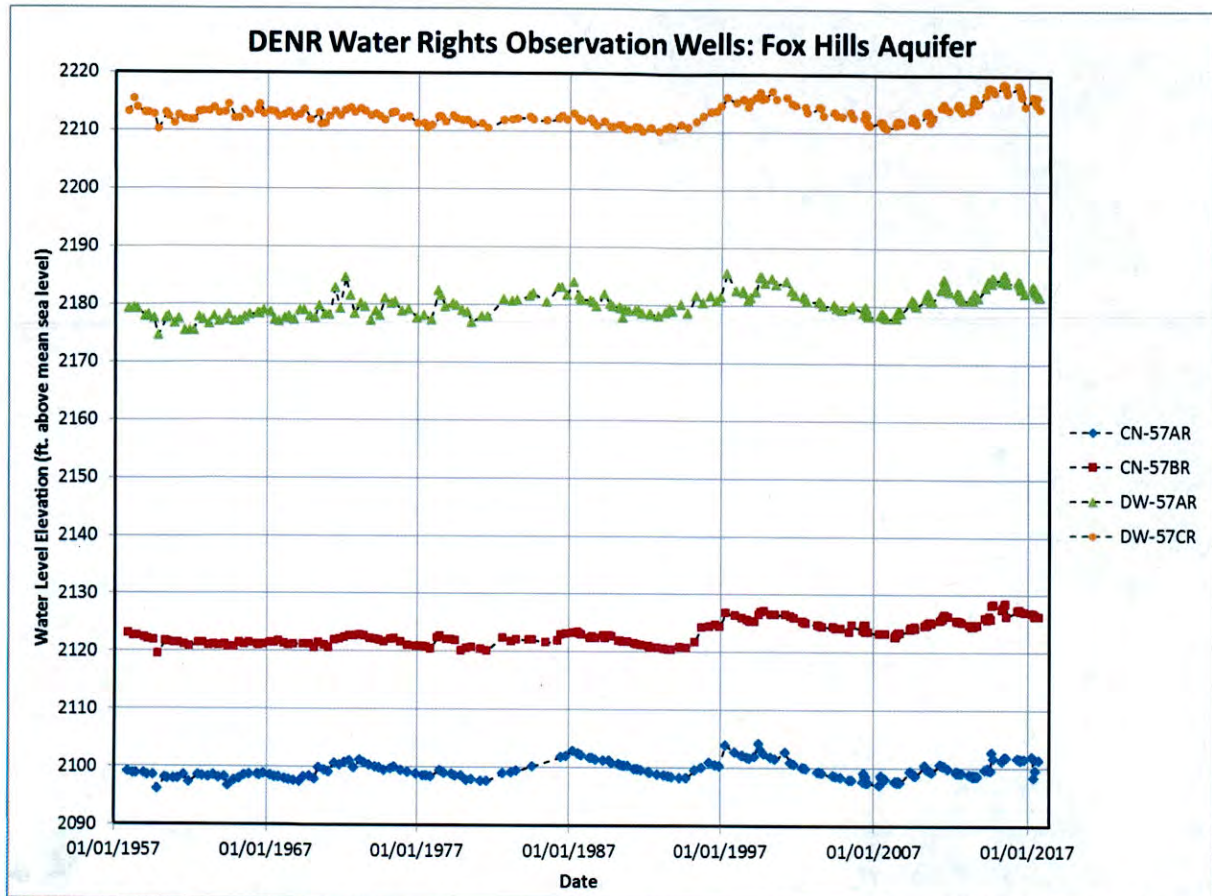


Figure 2- Hydrographs for observation wells Fox Hills aquifer observation wells CN-57BR, CN-57AR, DW-57AR, and DW57CR (Water Rights, 2018a)

Hydrologic Budget:

Recharge:

Recharge to the Fox Hills aquifer occurs through infiltration of precipitation at the outcrop, and leakage from overlying formations (Rahn, 1979). Hedges and Burch (1985) attempted to quantify recharge to the Fox Hills and Hell Creek Formations using base flow recession analysis for the Moreau River. They calculated a recharge rate range of 0.25 to 0.29 inches per year (in/yr.). Hedges and Burch (1985) noted that it is possible that a substantial amount of baseflow in the Moreau River may be from alluvium rather than the Fox Hills and Hell Creek Formations, and therefore, the recharge rate to the Fox Hills and Hell Creek Formations may be lower than 0.25 to 0.29 in/yr.

The well this application proposes to use is located within the Williston structural basin. Aurand (2013) quantified recharge across the Williston and Powder River Basins including the Fox Hills aquifer using two methods, chloride mass balance and soil water balance model. The estimated median recharge rate calculated using the chloride mass balance is 0.052 in/yr. for the Fox Hills aquifer (Aurand, 2013). The soil water balance model method in Aurand's (2013) thesis did not

distinguish between the different aquifers within the Williston basin. The soil water balance model method showed the recharge rate ranging from 0.05 to 1 in/yr. with a majority of the aquifer area in South Dakota in the 0.5 to 1 in/yr. range.

Using Aurand's (2013) chloride mass balance method median recharge rate of 0.052 in/yr., the estimated recharge rate to the Fox Hills aquifer in South Dakota is likely greater than 32,254 ac-ft/yr. Using Hedges and Burch's (1985) range of recharge rates leads to an estimated range of recharge to the Fox Hills aquifer of 155,067 to 179,877 ac-ft/yr. Note, not all of the recharge or water in storage is available everywhere in the aquifer. These recharge rates and the volume of water in storage demonstrates the Fox Hills aquifer is an immense resource.

Withdrawals:

Discharge from the Fox Hills aquifer primarily occurs through leakage to overlying formations, discharge to streams near the outcrop areas, and through well withdrawals. Currently, there are 31 water rights/permits authorizing the appropriation of water from the Fox Hills aquifer (Water Rights, 2018b). There are three irrigation water rights/permits, Water Right Nos. 1631-1 and 1633-3, and Water Permit No. 1972-1 (Water Rights, 2018b). A summary of the irrigation water rights/permits, the average annual irrigation volume, and the years when irrigation data was submitted are listed in Table 2. Water Permit No. 1972-1 is a new permit issued in February 2018. Water Permit No. 1972-1 is expected to pump less than four ac-ft/yr. (Mathiowetz, 2018). Estimated average annual irrigation pumpage from the Fox Hills aquifer is expected to be less than 38.2 ac-ft/yr.

Table 2- Fox Hills aquifer irrigation water rights including average annual pumpage (Water Rights, 2018b and 2018d)

Permit No.	Name	Status	Permitted Area (acres)	Average Pumpage (ac-ft/yr.)	Irrigation Data Years
1631-1	McIntosh School District	LC	2.3	0.5	1996-2017
1633-1	City of Lemmon	LC	27	33.7	2008-2017
1972-1	Timber Lake School District	PE	2	N/A	New Permit as of Feb 12, 2018

Water use by non-irrigation appropriations is estimated by assuming pumping at the maximum permitted diversion rate for 60 percent of the time if the water right/permit is limited only by diversion rate, if the water right/permit is limited by an annual volume, assuming the entire volume will be pumped, or if the water right/permit is required to submit annual pumpage data to the Water Rights Program, an average of those values is used to estimate annual pumpage. The City of Lemmon and the Town of Bison are connected to Perkins County Rural Water System and maintain their wells for standby purposes only (Friedeman, 2018). Therefore, water use under their respective water rights is assumed to be minimal. Table 3 shows the non-irrigation water rights/permits authorized to withdraw water from the Fox Hills aquifer along with their estimated average annual pumpage. The estimated average annual non-irrigation use from the Fox Hills aquifer is 1,484.5 ac-ft/yr.

Table 3-Fox Hills aquifer non-irrigation water rights/permits including estimated annual use (Water Rights, 2018b and 2018e)

Permit No.	Name	County	Status	Use	CFS	Pumpage (ac-ft/yr.)
445-1	City of McLaughlin	CN	LC	MUN	0.26	112.9
624-1	Town of Bison	PK	LC	MUN	0.02	*
739A-1	City of Lemmon	PK	LC	MUN	0.2	*
739B-1	City of Lemmon	PK	LC	MUN	0.19	*
898-1	City of Lemmon	PK	LC	MUN	0.2	*
971-1A	City of McIntosh	CN	LC	MUN	0.5	217.2
972-1	T C & G Water Assoc.	DW	LC	RWS	0.31	134.7
1097-1	Town of Bison	PK	LC	MUN	0.67	*
1309-1	Town of Bison	PK	LC	MUN	0.02	*
1310-1	Town of Bison	PK	LC	MUN	0.01	*
1319-1	Timber Lake Cheese Co Inc.	DW	PE	COM	0.05	21.7
1339-1	Siesta Motel	ZB	PE	COM	0.45	195.5
1352-1	City of Lemmon	PK	LC	MUN	0.21	*
1364-1	City of McLaughlin	CN	LC	MUN	0.62	269.3
1367-1	Dew Drop Inn	CN	LC	COM	0.1	43.4
1393-1	SD Dept of Transportation	HR	LC	DOM	0.02	8.7
1418-1	Town of Bison	PK	LC	MUN	0.06	*
1468-1	City of Timber Lake	DW	LC	MUN	0.47	204.2
1505-1	Cattlemens Saloon	CN	PE	COM	0.03	13.0
1530-1	T C & G Water Assoc.	DW	LC	RWS	0.09	39.1
1535-1	Continental Resources Inc.	HR	LC	COM	0.033	14.3
1543-1	Klein Ranch	CN	LC	INS/DOM	0.04	17.4
1611-1	City of Lemmon	PK	LC	MUN	0.16	*
1627-1	Koch Exploration Company	HR	PE	COM	0.056	24.3
1805-1	T C & G Water Assoc.	DW	PE	RWS	0.22	93.2**
1810-1	Little Moreau Elk Ranch LLC	DW	PE	COM/DOM	0.044	19.1
1829-1	Gary L Cammack	MD	LC	COM/DOM	0.09	39.1
1946-1	Nellies Mercantile & Saloon	MD	PE	COM	0.04	17.4
Total						1484.5
* = On Perkins County RWS (Friedeman, 2018), minimal pumpage						
** = Average of reported pumpage (Water Rights, 2018e)						

There are a number of domestic well completion reports on file with the Water Rights Program for wells that appear to be completed into the Fox Hills aquifer (Water Rights, 2018c). Carter and Neitzert (2008) estimated water use across South Dakota for the year 2005. Self-supplied domestic and livestock use across the entire South Dakota areal extent of the Fox Hills aquifer, assuming equal distribution of domestic and livestock water use and all water use in that area comes from only the Fox Hills aquifer, is approximately 4,200 ac-ft/yr. However, the presence of rural water systems in some of the areas underlain by the Fox Hills aquifer means that some of these wells may no longer be in use. Furthermore, a large portion of the Fox Hills aquifer is

overlain by other aquifers that are used instead of the Fox Hills aquifer. Therefore, self-supplied domestic use is likely much less than 4,200 ac-ft/yr.

Hydrologic Budget:

The estimated average annual use by non-irrigation appropriations is 1,484.5 ac-ft/yr. The estimated average annual irrigation pumpage from the Fox Hills aquifer is expected to be less than 38.2 ac-ft/yr. Self-supplied domestic use from the Fox Hills aquifer is likely much less than 4,200 ac-ft/yr. Thus, the estimated average annual pumpage from the Fox Hills aquifer in South Dakota is expected to be much less than 5,723 ac-ft/yr.

The minimum estimated average annual recharge to the Fox Hills aquifer in South Dakota is 32,254 ac-ft/yr. That is significantly greater than the estimated pumpage. The hydrologic budget is in agreement with the data shown in the observation well hydrographs. Therefore, there is a reasonable probability there is unappropriated water available for this proposed appropriation as required by SDCL 46-2A-9.

EXISTING WATER RIGHTS:

The well this application proposes to use is within approximately two miles of four appropriative wells authorized to withdraw water from the Fox Hills aquifer (Water Rights, 2018b). The four wells are authorized by Water Right Nos. 972-1 and 1530-1 and Water Permit No. 1805-1 all of which are held by the Applicant T C & G Water Association (Water Rights, 2018b). The nearest Fox Hills aquifer appropriative well not owned by the applicant is for Water Permit No. 1319-1 for Timber Lake Cheese Co Inc., which is approximately 4.4 miles southwest of the applicants well (Water Rights, 2018b). There are a number of domestic wells on file with the DENR-Water Rights Program within approximately two miles of the applicant's well that appear to be completed into the Fox Hills aquifer (Water Rights, 2018c). The nearest of these domestic wells is approximately 0.5 miles west of the well this application proposes to use. A well authorized by Water Right No. 972-1 is approximately 0.4 miles east of the well this application proposes to use. The applicant is likely to manage their pumping to limit impacts to their own well and this will in turn limit impacts to any nearby domestic wells.

The Fox Hills aquifer in this area is unconfined. Since the aquifer is unconfined, drawdown created by pumping this proposed diversion is not expected to be significant very far from the well. The applicant is already pumping water from wells in this area. The applicant drilled a replacement well that can pump at a higher rate than their original well authorized by Water Right No. 1530-1. The relatively small increase in diversion rate of 15 gpm, which is less than the 18 gpm allowed for domestic well users, proposed by this application will also limit the increase in the amount of drawdown from what is already present from existing pumping. Also, there is generally at least 40 feet of saturated aquifer thickness (Water Rights, 2018c) and up to more than 80 feet of saturated aquifer thickness based on the well completion report for this application. 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 to place water to maximum beneficial use, a certain amount of drawdown may occur. Furthermore, there is no history of well interference complaints from the Fox Hills aquifer. When the saturated aquifer thickness, unconfined nature of the aquifer, the relatively small increase of diversion rate as proposed by this application, the lack of a history of well interference, and the proximity of other wells owned by the applicant are considered, adequate appropriative or domestic wells are not expected to be adversely or unlawfully impaired if this proposed appropriation is approved.

CONCLUSIONS:

1. Application No. 1977-1 proposes to increase the maximum instantaneous diversion rate authorized by Water Right No. 1530-1 by 0.033 cfs using a replacement well completed into the Fox Hills aquifer as authorized by Water Right No. 1530-1.
2. Water Right No. 1530-1 authorizes the withdrawal of water from the Fox Hills aquifer at a maximum instantaneous diversion rate of 0.09 cfs from one well.
3. Combined, Water Right No. 1530-1 and Application No. 1977-1, if approved, would authorize the diversion of water from the Fox Hills aquifer at a maximum instantaneous diversion rate of 0.123 cfs with an annual volume of 24.5 ac-ft.
4. Based on the observation well data and a hydrologic budget, unappropriated water is available from the Fox Hills aquifer for this proposed appropriation.
5. There is a reasonable probability the diversion proposed by this application can be made without adversely impacting existing appropriative or domestic users.



Adam Mathiowetz, PE
SD DENR-Water Rights Program

REFERENCES:

- Allen, J.C., D.L. Iles, and A.K. Petres. 1985. Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3A.B.C. and 4A.B.: Groundwater Resource Inventory: Final Report. U.S. Army Corp of Engineers Contract DAWC 45-82-C-015. SD DENR-Geological Survey. Vermillion, South Dakota.
- Aurand, K. 2013 Groundwater Recharge Estimates for the Lower Tertiary and Upper Cretaceous Aquifers in the Williston and Powder River Structural Basins. MS thesis. Rapid City, South Dakota: South Dakota School of Mines and Technology, Department of Geology and Geological Engineering Department.
- Carter, J.M. and K.M. Neitzert. 2008. Estimated Use of Water in South Dakota, 2005: U.S. Geological Survey Scientific Investigations Report 2008-5216. 30 p.
- Friedeman, B. Personal Communication. January 11, 2018. SD DENR-Drinking Water Program Environmental Scientist.
- Hedges, L.S. and Burch, S.L. 1985. Analysis of Ground-Water and Streamflow Data Western Dakota Region of South Dakota, Task 3.D and 4.C: Ground-Water Recharge. SD DENR-Geological Survey. Vermillion, South Dakota
- Martin, J.E., J.F. Sawyer, M.D. Fahrenbach, D.W. Tomhave, and L.D. Schulz. 2004. Geologic Map of South Dakota: General Map 10. SD DENR-Geological Survey. Vermillion, SD.
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- Water Rights. 2018a. Observation Well Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2018b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2018c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2018d. "Annual Irrigation Questionnaires": SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2018e. "Non- Irrigation Questionnaires": SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.

AFFIDAVIT OF PUBLICATION

Corson News, LLC DBA Corson/Sioux County News-Messenger

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF CORSON)

Zach Buechler (and/or Lois Buechler) of said county and state, being first duly sworn, on his/her oath says that the Corson/Sioux County News-Messenger is a weekly newspaper of general circulation, printed and published for more than fifty-two successive weeks prior after mentioned and that I, Zach Buechler (and/or Lois Buechler), am Editor of said newspaper, in charge of advertising department thereof, the undersigned, and have personal knowlesdge of the facts stated in the affidavit and that the advertisement headed,

NOTICE OF APPLICATION NO. 1977-1 to Appropriate Water

a printed copy of which is hereunto attached, was printed and published in the regular and entire issue of said newspaper, an not in supplement, once each week for 1 weeks, the first publication being made on the 10 day of May , 2018 and the last publication being made on the 10 day of May , 2018 .

The 1st publication being on 10 day of May , 2018
The 2nd publication being on day of ,
The 3rd publication being on day of ,
The 4th publication being on day of ,
The 5th publication being on day of ,
The 6th publication being on day of ,
The 7th publication being on day of ,
The 8th publication being on day of ,
The 9th publication being on day of ,

That said newspaper is a legal newspaper and has a bonafide circulation of more than two hundred copies weekly, and has been published within the County of Corson for more than fifty-two successive weeks prior to the first publication of said notice and is printed in English in an office maintained at McLaughlin, SD, the place of publication of said newspaper. That the full amount of the fee for the publication of annexed notice is \$ 31 .36 and incures solely to the benefit of said publisher, that no agreement or understanding of a division there of has been made with any other person whomsoever.



Subscribed and sworn to before me this

31st day of MAY 2018

Mary Jamerson

Notary Public

MARY JAMERSON
NOTARY PUBLIC
SOUTH DAKOTA
my commission expires
March 28, 2023

NOTICE OF APPLICATION NO. 1977-1 TO APPROPRIATE WATER

Notice is given that T C & G Water Association, c/o Jason Voegele, Operations Manager, PO Box 95, Glencross SD 57630 has filed an application for a water permit to increase the diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 appropriates 0.09 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 2-T17N-R25E for rural water system use. This application proposes to increase the maximum pump rate by 0.033 cfs from a replacement well. The replacement well is completed into the Fox Hills Aquifer (85 feet deep) located in the NE 1/4 NE 1/4 Section 2-T17N-R25E. This application, if approved, will authorize a total diversion rate of 0.123 cfs (55 gallons per minute). The combined volume withdrawn and Water Right No. 1530-1 and Permit No. 1977-1 will be 24.5 acre-feet of water annually. The rural water system serves users in Dewey and Corson Counties. The site is located 4 miles northeast of Timber Lake SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1977-1 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 May 21, 2018.

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

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JUN - 4 2018

WATER RIGHTS
PROGRAM

May 10, 2018

Public Notice

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 \$31.36

Form 8

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MAY 16 2018

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hughes) SS

I, Marylinn Baker

certify that the attached printed Notice was taken

from the Capital Journal

printed and published in Pierre

County of Hughes and

state of South Dakota. The notice was published

in the newspaper on the following date:

5-10-18

Cost of Printing \$34.72

Marylinn Baker
(Signature)

Business Office Asst.
(Title)

5-11-18

(Date Signed)

NOTICE OF APPLICATION NO. 1877-1 to Appropriate Water Notice is given that T. C. & O. Water Association, c/o Jason Voogele, Operations Manager, PO Box 85, Glenwood SD 57630 has filed an application for a water permit to increase the diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 appropriates 0.09 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 2-T17N-R25E for rural water system use. This application proposes to increase the maximum pump rate by 0.003 cfs from a replacement well. The replacement well is completed into the Fox Hills Aquifer (65 foot deep) located in the NE 1/4 NE 1/4 Section 2-T17N-R25E. This application, if approved, will authorize a total diversion rate of 0.123 cfs (55 gallons per minute). The combined volume withdrawn and Water Right No. 1530-1 and Permit No. 1877-1 will be 24.5 acre-feet of water annually. The rural water system serves users in Dewey and Gordon Counties. The site is located 4 miles north-east of Timber Lake SD. Pursuant to SDCL 48-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1877-1 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://dmr.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 the 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, 623 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 May 21, 2018. 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. Pinner,
Secretary,
Department of Environment
and Natural Resources

Published once at the total
approximate cost of \$34.72

Call 800-658-3063

To place your ad

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA
COUNTY OF DEWEY

K. Skum

, be:
That the Timber Lake Topic is, and during all the times
a weekly legal newspaper as defined in SDCL 17-2-2.1
as amended, published at Timber Lake, Dewey County, S.D.
and during all of said times was, the publisher of such newspaper
knowledge of the facts stated in this affidavit; that the newspaper
entitled Notice of Application NO. 1977-

To Appropriate Water

a printed copy of which is attached, was published in said
bearing the following dates:

May 10, 2018

NOTICE OF APPLICATION NO. 1977-1 TO APPROPRIATE WATER

Notice is given that T C & G Water Association, c/o Jason Voegel, Operations Manager, PO Box 95, Glencross SD 57630 has filed an application for a water permit to increase the diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 appropriates 0.09 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 2-T17N-R25E for rural water system use. This application proposes to increase the maximum pump rate by 0.033 cfs from a replacement well. The replacement well is completed into the Fox Hills Aquifer (85 feet deep) located in the NE 1/4 NE 1/4 Section 2-T17N-R25E. This application, if approved, will authorize a total diversion rate of 0.123 cfs (55 gallons per minute). The combined volume withdrawn and Water Right No. 1530-1 and Permit No. 1977-1 will be 24.5 acre-feet of water annually. The rural water system serves users in Dewey and Corson Counties. The site is located 4 miles northeast of Timber Lake SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1977-1 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 ap-

plicant 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 May 21, 2018.

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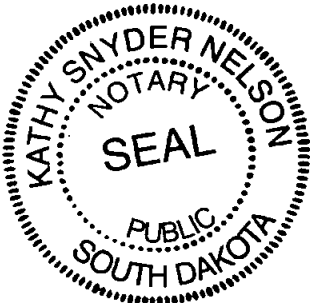
Steven M. Pirner, Secretary,
Department of Environment
and Natural Resources.

Published once at the total
approximate cost of \$26.00
May 10, 2018, Timber Lake Topic

That the full amount of the fee charged for publishing the same, to-wit, the sum of \$ 26.22 inures solely to the benefit of the publisher of said newspaper, that no agreement or understanding for the division of the fee has been made with any person, and that no part of the fee has been agreed to be paid to any other person.

[Signature]

Subscribed and sworn to before me this 24th day of May, 2018



Kathy Snyder Nelson
Notary Public
County of Dewey, South Dakota

My commission expires

KATHY SNYDER NELSON
Notary Public, Dewey Cty., S. Dak.
My Commission Expires March 31, 2023

RECEIVED

MAY 29 2018

WATER RIGHTS
PROGRAM

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, April 30, 2018 3:04 PM
To: legals@capjournal.com
Subject: 1977-1, TC&G Water Association
Attachments: 1977-1public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on May 10, 2018.

TC&G Water Association, c/o Jason Voegele, Operations Manager, 909 7th Ave West, Mobridge SD 57601 (605 845-8567) 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



Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, April 30, 2018 3:04 PM
To: macnews@westriv.com
Subject: 1977-1, TC&G Water Association
Attachments: 1977-1public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on May 10, 2018.

TC&G Water Association, c/o Jason Voegelé, Operations Manager, 909 7th Ave West, Mobridge SD 57601 (605 845-8567) 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



Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, April 30, 2018 3:03 PM
To: timtopic@lakotanetwork.com
Subject: 1977-1, TC&G Water Association
Attachments: 1977-1public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on May 10, 2018.

TC&G Water Association, c/o Jason Voegele, Operations Manager, 909 7th Ave West, Mobridge SD 57601 (605 845-8567) 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



NOTICE OF APPLICATION NO. 1977-1 to Appropriate Water

Notice is given that T C & G Water Association, c/o Jason Voegelé, Operations Manager, PO Box 95, Glencross SD 57630 has filed an application for a water permit to increase the diversion rate authorized by Water Right No. 1530-1. Water Right No. 1530-1 appropriates 0.09 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 2-T17N-R25E for rural water system use. This application proposes to increase the maximum pump rate by 0.033 cfs from a replacement well. The replacement well is completed into the Fox Hills Aquifer (85 feet deep) located in the NE 1/4 NE 1/4 Section 2-T17N-R25E. This application, if approved, will authorize a total diversion rate of 0.123 cfs (55 gallons per minute). ~~The combined volume withdrawn and Water Right No. 1530-1 and Permit No. 1977-1 will be 24.5 acre-feet of~~ water annually. The rural water system serves users in Dewey and Corson Counties. The site is located 4 miles northeast of Timber Lake SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1977-1 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 May 21, 2018.

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

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

April 30, 2018

T C & G Water Association
Jason Voegelé, Operations Manager
909 7th Ave West
Mobridge SD 57601

Dear Mr. Voegelé:

Water Permit Application No. 1977-1 for rural water system use has been examined and found to comply with the South Dakota Water Laws and applicable rules. The notice has been sent to the following papers.

Timber Lake Topic, Timber Lake 605 865-3546
Corson/Sioux County News-Messenger, McLaughlin 605 823-4490
Capitol Journal, Pierre 605 224-7301

You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

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.

June 14, 2018

PAYMENT REQUEST FORM

PAYEE: TC & G Association
% Jason Voegelé, Operations Manager
PO Box 95
Glencross, SD 57630

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

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Over payment of application/license fee

AMOUNT: \$100.00

FUNDING SOURCE:

GENERAL: X

FEDERAL:

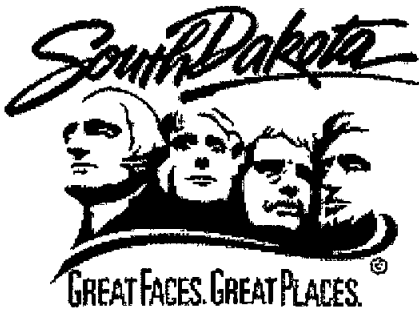
OTHER:

COMMENTS:

AUTHORIZATION:



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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JUN 14 2018

T C & G Association
c/o Jason Voegelé, Operations Mgr
PO Box 95
Glencross SD 57630

Dear Mr. Voegelé:

Enclosed is Water Permit No. 1977-1 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

The application was submitted with a fee of \$400.00. The application/license fee for Permit No. 1977-1 is \$300.00. Therefore, \$100.00 will be refunded to you. The refund check should be received within two weeks.

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

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

Sincerely,

A handwritten signature in black ink that reads "Jeanne Goodman". The signature is fluid and cursive, with the first name "Jeanne" being more prominent than the last name "Goodman".

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

enclosures

1977-1
RECEIVED
JUL 05 2018
WATER RIGHTS
PROGRAM

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

Date June 27, 2018

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

FROM: TC & LG Rural Water
(name)
909 2nd Ave W
(address)
Mohrridge SD 57601 605-845-8567
(city, state, zip) (phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

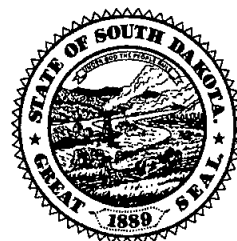
Water Permit No. 1977-1 states that the water use system is to be constructed by
June 1, 2018 (date), and water is to be put to beneficial use by July 1, 2018 (date).

The water use system was completed on June 27, 2018 (date).

Applying the water to beneficial use was completed on June 28, 2018 (date).

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

[Signature]
(signature)





1977-1

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

July 6, 2018

1977-1

Jason Voegele, Operations Mgr
TC & G Water Association
909 7th Ave West
Mobridge SD 57601

Dear Sir:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the water use system authorized under Water Permit No. 1977-1.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us