

WATER PERMIT NO. 8445-3

Name of Applicant: G. L. Management LLC

Address: 8000 E Arrowhead Parkway, Sioux Falls SD 57110

Phone: 605 335-5900

Amount of Water Claimed: 0.44 cfs

Total Acres: 71 acres

Source of Water Supply: one well

Water to be used for: irrigation

County: Minnehaha

Type of Waste Disposal System:

Location: Willow Run Golf Course on east side of Sioux Falls

PRIORITY

Date Received: 9-11-20

Application/License Fee: \$ 700

Corrected Application Received: 9-18-20

Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: SE 1/4 SE 1/4 Sec 20-T101N-
R48W

Land to be Irrigated: S 1/2 NW 1/4, N 1/2 SW 1/4,
W 1/2 SE 1/4, SE 1/4 SE 1/4, Sec 20-T101N-
R48W

			20		
				ⓧ	

Depth of Well: 460 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 9-18-20

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 8445-3**

Date of first receipt of application September 11, 2020.

Date of return to applicant for corrections, amendments or changes September 11, 2020.

Date of receipt of corrected application September 18, 2020.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8445-3 to G. L. Management LLC, c/o Thomas P Walsh, Sr, 8000 E Arrowhead Parkway, Sioux Falls SD 57110 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. 8445-3 appropriates 0.44 cubic feet of water per second from one well to be completed into the Sioux Quartzite Aquifer (460 feet deep) located in the SE 1/4 SE 1/4 Section 20 for irrigation of 71 acres at Willow Run Golf Course located in the S 1/2 NW 1/4, N 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 20; all in T101N-R48W. Water will be pumped from the well to an existing 3.9 acre-feet storage pond located in the SE 1/4 SE 1/4 Section 20-T101N-R48W prior to irrigation of the golf course. This site is located on the east side of Sioux Falls SD.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is September 11, 2020.
4. The date of approval of Permit No. 8445-3 is December 14, 2020.
5. One-fifth of the construction is to be completed on or before June 14, 2023.
6. All construction is to be completed on or before December 14, 2025.
7. Water is to be put to beneficial use on or before December 14, 2029.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

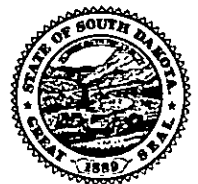
1. The well approved under Water Permit No. 8445-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8445-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

JAN 19 2021

date



RECEIVED

SEP 11 2020

WATER RIGHTS
PROGRAM

SD EForm - 0499LD V5

FORM 1: Application for Irrigation in South Dakota
(Type or print)

Mail to:	No. <u>8445-3</u> (office use only)	Hydrologic Unit <u>10170203</u>
DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	Basin <u>Sioux River</u>	Newspaper <u>Argus Leader</u>

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____

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

New well for irrigation pond1. Name to Appear on Irrigation Permit G. L. Management LLC

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

Mailing Address 8000 E Arrowhead Parkway Sioux Falls SD 57110Phone (605) 335-5900 Mobile _____ Email Barry.Anderson@joingreatlife.com2. Amount of water claimed .44 CFS or 200 GPM 71 AF Total Acreage 71

(*Cubic Feet per Second) (**Gallons per Minute) (***)Acres Feet storage capacity of dam dugout or natural use if applicable

3. Source of water supply Well4. Location of point of diversion 1 well in Southeast Corner of Section 20-T10N-R48WSE 1/4 SE 1/4County Minnehaha5. County or counties where water will be used Minnehaha6. Annual period during which water is to be used April 1st - Oct 31st7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
Same land as water rights #5055-3	71		

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

Well for irrigation to the golf courseT. P. Walden1. Thomas P. Walden
Name of PersonCEO the applicant, certify under
Title (if applicable)

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

2010

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Also, attach map and any other technical information. (see instructions)

Supplemental Information

(Type or print)

1. Well Information (check one or both as applicable): ☒ Drilling new well(s) ☐ Using existing well(s)a) If new wells, how many 1 Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Putzke Well Drilling

For either Existing or Proposed Wells:

c) Well Depth (required) 460 ft Depth to Top of Water Bearing Material None Depth to Water from Surface 35 ftd) Distance to nearest domestic well on applicant's property 120 ft 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

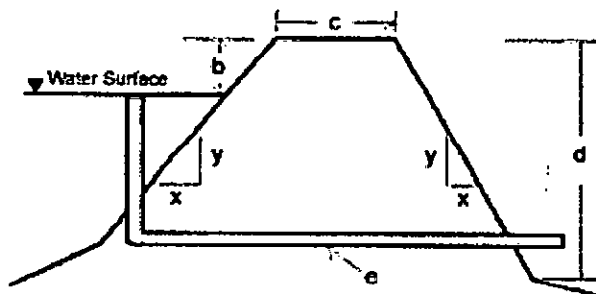
a) Surface Dimensions _____ Depth _____

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



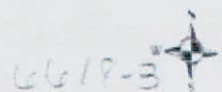
Natural Resources Conservation Service
2003 Photography

Date 3/24/05

Photo location verified
Eugene R. Foster
Soil Scientist

Well Location at Willow Run Golf Course
Sec. 20, T. 101 N., R. 48 W.

0 500 1,000 2,000 3,000 4,000 Feet



Irrigated area

owner: Tom Walsh
3800 W 53rd St
Scout Falls SD 57106

Legend

- 8000 E Arrowhead Pkwy
- Hole

8000 E Arrowhead Pkwy

Google Earth

1000 ft



New Well Location

Write a description for your map.

Legend

 Hole

New
Well
Location

Google Earth

1000 ft





531042260

B0145-5610 07/06/2020 11:56AM Rec'd by SD SOS

ANNUAL REPORT

Secretary of State
500 E. Capitol Ave
Pierre, SD 57501-5070
(605) 773-4845

Domestic Limited Liability Company
SDCL 47-34A-211; 59-11-24, 24.1

Filing Fee: \$50

2020
FILING YEAR

Please Type or Print Clearly in Ink
Please submit one Original
Make payable to the SECRETARY OF STATE

Total Fee: \$50

1. Business ID and Name:

DL035079
BUSINESS ID

GL MANAGEMENT, LLC
BUSINESS NAME

2. The jurisdiction under whose law it is formed **SOUTH DAKOTA**

3. The address of the principal executive office (business address):

Actual Street Address

3800 WEST 53RD STREET
SIOUX FALLS, SD 57106-4223

Mailing Address

3800 WEST 53RD STREET
SIOUX FALLS, SD 57106-4223

4. The South Dakota Registered Agent's Name:

South Dakota law permits the registered agent to be either (a) a noncommercial registered agent, or (b) a commercial registered agent.

(a) The South Dakota Noncommercial Registered Agent's name

Name **JOHN C. QUAINANCE**

Actual Street Address in this State

FIRST FINANCIAL CENTER
110 S PHILLIPS AVENUE STE 100
SIOUX FALLS, SD 57104-6727

Mailing Address in this State

PO BOX 2208
SIOUX FALLS, SD 57101-2208

5. If the LLC is manager-managed, list the names and addresses of its Managers. SDCL 59-11-24. If the LLC is member-managed, this section may be left blank.

Name

Address

THOMAS P WALSH, SR.

3800 WEST 53RD STREET, SIOUX FALLS, SD, 57106

6. Beneficial Owners (optional): A beneficial owner is a person who has or in some manner controls an equity security. Please consult an attorney for legal advice if you have any questions concerning this entry. Any question under this heading is considered a request for legal advice and the secretary of state's office is, by statute, not permitted, to provide legal advice.

No person may execute this report knowing it is false in any material respect. Any violation may be subject to a criminal penalty (SDCL 22-39-36).

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date September 18, 2020

RECEIVED OF Willow Run Golf Course 3800 W 53rd St Sioux Falls SD 57106

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

Fee for Application for Permit No. <u>8445-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$500.00
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>8445-3</u>	\$200.00
Fee for Filing Transfer Form _____	\$
Fee for _____	\$
Fee for Issuing New Well Driller's License No. _____	\$
Fee for Renewal of Well Driller's License No. _____	\$
Fee for Issuing Well Pump Installer's License No. _____	\$
Fee for Renewal of Well Pump Installer's License No. _____	\$
(Any Other Work Provided by Law) TOTAL	\$700.00

By Eric Gronlund
Chief Engineer vm

Schlaak, Karen

From: Duvall, Ron
Sent: Friday, September 11, 2020 9:16 AM
To: Barry Anderson
Cc: Schlaak, Karen
Subject: RE: [EXT] Application to add well

Barry,

I made hard copies of your attachments so the paperwork is sufficient. The application fee is \$500.00 plus a \$200.00 license fee. The fee can be made payable to "Water Rights Program" and mailed to:

SD DENR, Water Rights Program
523 E Capitol Ave
Pierre SD 57501

Thank you,

Ron Duvall
Water Rights Program
605.773.3352
denr.sd.gov



DENR
SOUTH DAKOTA

From: Barry Anderson <Barry.Anderson@joingreatlife.com>
Sent: Friday, September 11, 2020 7:05 AM
To: Duvall, Ron <Ron.Duvall@state.sd.us>
Subject: Re: [EXT] Application to add well

Run,

Just wanted to show you what I have for the well permit request for Willow Run. Let me know if this paperwork is sufficient. Also not sure exactly what the total fee is if you want to let me know that. My local paper is the Argus Leader. If this is sufficient let me know if you want me to mail all this paperwork in or if these attachments are ok and I can send the money.

Barry Anderson | GreatLIFE Golf & Fitness Club
Superintendent | Willow Run Golf Course
8000 E Hwy 42 | Sioux Falls, SD 57110
605-261-7724 | 605-335-5900
joingreatlife.com

Live. Play. Better

From: Duvall, Ron <Ron.Duvall@state.sd.us>
Sent: Thursday, September 3, 2020 4:33 PM

To: Barry Anderson <Barry.Anderson@joingreatlife.com>

Subject: Application to add well

Barry,

This link will show you the existing water right for the golf course.

https://denr.sd.gov/wrimage/wrinfo/wr_div3/6618-3.pdf

Please call if you have any questions.

Thank you,

Ron Duvall
Water Rights Program
605.773.3352
denr.sd.gov



DENR
SOUTH DAKOTA

Water Rights Program - File Documentation

NAME: Barry Anderson, Supt of Willow Run Golf Course

ADDRESS:

DATE: 9-11-20

RE: Pending application

COMMENTS:

Barry stated he would like a copy of all correspondence emailed to him at Barry.Anderson@joingreatlife.com

I mentioned filing a notice of transfer to change the names on the existing permit Nos. 5055-3, 6618-3 and 7171-3. Barry said he was going to talk with their accountant about that.

Regarding 5055-3, Barry said they no longer use the Big Sioux River as a water source. I told him we need a letter or email stating the same and the water right could be scheduled for cancellation.

Regarding 7171-3, they have not used this water source (unnamed tributary to Big Sioux River) for several years but want to maintain it.



Karen Schlaak
Water Rights Program

Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, September 18, 2020 9:37 AM
To: Barry Anderson
Subject: Pending application

We received the check today. We will contact you when it is time to proceed with the public notice.

Just a reminder. When we talked last week you mentioned that Water Right No. 5055-3 from the Big Sioux River was no longer used. I indicated that we would need a letter or email stating the same and that you were agreeable with scheduling the water right for cancellation.

Also you were going to check with your accountant regarding filing a notice of transfer to get the names changed on the other existing water rights for Willow Run Golf Course.

Have a good day!

Karen Schlaak
Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Barry Anderson <Barry.Anderson@joingreatlife.com>
Sent: Monday, October 5, 2020 8:31 AM
To: Schlaak, Karen
Subject: Re: [EXT] Pending water permit application

Correct

Barry Anderson | GreatLIFE Golf & Fitness Club
Superintendent | Willow Run Golf Course
8000 E Hwy 42 | Sioux Falls, SD 57110
605-261-7724 | 605-335-5900
joingreatlife.com
Live. Play. Better.

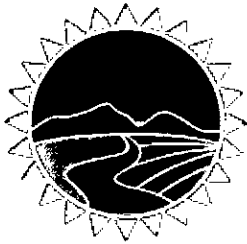
From: Schlaak, Karen <Karen.Schlaak@state.sd.us>
Sent: Monday, October 5, 2020 8:28:55 AM
To: Barry Anderson <Barry.Anderson@joingreatlife.com>
Subject: Pending water permit application

Barry,
I have another question regarding this application. I am assuming the golf course is still using the well authorized by Water Right No. 6618-3. Is that a correct assumption? The new application is for a new well and in addition to the existing well?

Karen Schlaak
Water Rights Program
(605) 773-3352



DENR
SOUTH DAKOTA



DENR
SOUTH DAKOTA

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8445-3, G. L. Management LLC**

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. 8445-3, G. L. Management LLC, 8000 E Arrowhead Parkway, Sioux Falls SD 57110.

The Chief Engineer is recommending APPROVAL of Application No. 8445-3 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. 8445-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under these Permits shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8445-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Eric Gronlund, Chief Engineer
November 18, 2020

REPORT TO THE CHIEF ENGINEER

Water Permit Application No. 8445-3

G L Management LLC

November 18, 2020

Water Permit Application No. 8445-3 proposes to appropriate water at a maximum instantaneous diversion rate of 0.44 cubic feet per second (cfs) for the irrigation of 71 acres of the Willow Run golf course. The proposed diversion point is one well to be completed into the Sioux Quartzite aquifer with a well depth of 460 feet. The location of the proposed well is the SE ¼ SE ¼ of Section 20-T101N-R48W, on the east side and within the city limits of Sioux Falls, SD.

The 71 acres of Willow Run Golf Course are also currently authorized for irrigation by three other licensed water rights. Water Right Nos. 5055-3 and 7171-3 are from surface water sources and Water Right No. 6618-3 is from the Sioux Quartzite aquifer. This application for irrigation use is seeking to increase the diversion of water from the Sioux Quartzite aquifer, in addition to installing an additional well. No additional irrigated acres are being proposed by this application.

Aquifer: Sioux Quartzite (SOUX)

Hydrogeology

The Sioux Quartzite consists of pink and reddish to tan, siliceous, fine- to coarse-grained, ironstained orthoquartzite with minor metamorphosed conglomerate and mudstone layers (Martin and others, 2004). The Sioux Quartzite underlies portions of southeastern South Dakota, and extends into southwestern Minnesota, and northwestern Iowa (Tomhave, 1994; McCormick, 2010).

The Sioux Quartzite is a relatively impermeable rock, the movement of groundwater through this formation generally relies on the secondary porosity created by joints, fractures, and faults existing in the rock. The yield to a well depends on the distribution, orientation, and interconnection of these zones of secondary porosity, which are unpredictable, resulting in aquifer characteristics that are site specific and highly variable.

The well completion report for the applicant's existing well shows topsoil from ground surface to 2 feet below grade, yellow clay from 2 to 73 feet below grade, and granite (Sioux Quartzite) from 73 to 280 feet below grade. The well is cased from 0 to 73 feet, with the remainder being completed as an open hole. At the time the well was completed (April 30, 2004), the static water level was 27 feet below grade indicating the well was confined at the time of completion (Water Rights, 2020b). It is expected that the well proposed by this application will be similarly constructed and encounter the same geologic formations at similar depths.

South Dakota Codified Law 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights

and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights within the Sioux Quartzite aquifer.

Water Availability

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

Hydrologic Budget

Recharge

Recharge to the Sioux Quartzite aquifer occurs through infiltration of precipitation where the Sioux Quartzite is at or near land surface, streamflow losses where streams and rivers flow across outcrops, and leakage from hydrologically connected aquifers (Lindgren and Niehus, 1992). The average annual recharge to the Sioux Quartzite aquifer has not been quantified. Therefore, data is not available to quantitatively compare the estimated average annual recharge to estimated average annual withdrawal in the aquifer.

Discharge

Discharge from the Sioux Quartzite aquifer occurs primarily through well withdrawals, evapotranspiration in areas where the aquifer is near land surface, and leakage to hydrologically connected aquifers. There are currently 66 water rights that are licensed or permitted for appropriating water from the Sioux Quartzite aquifer (Water Rights, 2020a). There is also one pending application for the Sioux Quartzite aquifer with an application date junior to this application, which is Water Permit Application No. 8446-3 for Blue Barn LLC for a diversion rate of 0.089 cfs (40 gpm).

Domestic use from the Sioux Quartzite aquifer is not considered to amount to a significant portion of the hydrologic budget due to the relatively low diversion rate of domestic wells. In addition, the development of rural water systems in the area has likely reduced the amount of water being withdrawn for domestic purposes from the Sioux Quartzite aquifer.

Appropriative use from the Sioux Quartzite aquifer comes from the 66 existing water rights/permits. The average annual withdrawals by appropriative users is estimated by using the withdrawals as reported by the water right/permit holder, by the annual volume if the water right/permit has an annual volume limit, and by estimating the amount of water pumped if the pump is on 60% of the time if the water right/permit is limited by a diversion rate. Within these types of limits used for estimation of appropriative withdrawals, there are different types of use.

The Sioux Quartzite aquifer has three different types of use (quarry dewatering, municipal supply, and irrigation) that are estimated separately due to assumptions that are made for those uses.

In the Sioux Quartzite aquifer, there are currently 8 water rights/permits for irrigation use, out of which, 6 are qualified with the requirement to report their annual use. The average reported irrigation use for these water rights/permits for irrigation is summarized in Table 1. Water Right Nos. 6451-3 and 6553-3 are not required to report their annual use, however their total use is still restricted to a limit of 2 acre-feet per acre. The estimated average annual use for Water Right Nos. 6451-3 and 6553-3 is estimated to be less than 14 acre-feet per year. The reported average annual use for the 6 irrigation water rights/permits that are required to report is 272.3 acre-feet per year. This results in an estimated average annual irrigation use of less than 286.3 acre-feet per year.

Table 1. Irrigation Water Rights/Permits from the Sioux Quartzite aquifer (Water Rights, 2020d)

Water Right No.	Water Right Status	Authorized Acres	Average Reported Use [acre-feet]	Years of Constructed System Data
5365-3	LC	1.5	1.2	6 (1990-1995)
6195-3	LC	61.0	89.1	20
6451-3	LC	3.0	N/A	N/A
6553-3	LC	4.0	N/A	N/A
6618-3	LC	71.0	77.1	14
6910-3	LC	80.0	5.8	10
7805-3	LC	8.0	4.4	7
7415-3	PE	34.0	94.7	7
Total		262.5	272.3	
LC-License, PE-Permit				

The withdrawal of water from the Sioux Quartzite aquifer for the purpose of quarry dewatering has been recently estimated by Kilts (2020) as being less than 13,521 acre-feet per year. This estimate was based upon the quarry dewatering water rights/permits withdrawing their maximum authorized appropriation. The water rights/permits for quarry dewatering are also required to report their annual use. Magstadt (2020) calculated the reported average annual for quarry dewatering as 4,015 acre-feet per year. Kilts (2020) also estimated the average annual withdrawals from municipal users and other non-irrigation users as less than 3,662 acre-feet per year. Two applications for the Sioux Quartzite aquifer have been approved and one water permit has been canceled since the estimate made by Kilts (2020). These applications requested 300 acre-feet per year and 18.4 acre-feet per year, and the canceled water permit was for 38.9 acrefeet per year bringing the total estimated withdrawals for all non-irrigation purposes (including quarry dewatering as reported) to less than 7,957 acre-feet per year.

This application is seeking to increase the diversion rate from the Sioux Quartzite aquifer and the installation of a second well. The reported irrigation use by the water rights/permits held for the irrigation of 71 acres of the golf course is provided in Table 2. The 14 years of irrigation data for Water Right No. 6618-3 shows that on average, 77.1 acre-feet of water has been withdrawn from the Sioux Quartzite aquifer annually. Over the 34 years of irrigation data for all 3 water rights, the average annual use has been 99 acre-feet per year. Assuming irrigation trends continue, the surface water sources are no longer used, and if this application is approved, the increase in withdrawals from the Sioux Quartzite aquifer by this application would amount to an average of 22 acre-feet per year. Currently, the acres approved for irrigation are limited to an application rate of 2 acre-feet per acre over their specified irrigation season. If all 71 acres are irrigated, the combined maximum potential withdrawal across all water rights/permits, is 142 acre-feet for the irrigation season.

Table 2. Reported Irrigation use of the Willow Run Golf Course (Water Rights, 2020d)

Source	Big Sioux River	Sioux Quartzite Aquifer	Tributary to Big Sioux River	
	Water Right No. 5055-3	Water Right No. 6618 -3	Water Right No. 7171 -3	Total Acre-feet
1986	10.2			10.2
1987	9.8			9.8
1988	18.6			18.6
1989	35.4			35.4
1990	33.1			33.1
1991	35.4			35.4
1992	56.6			56.6
1993	8.0			8.0
1994	73.0			73.0
1995	73.4			73.4
1996	128.7			128.7
1997	128.8			128.8
1998	183.7			183.7
1999	182.6			182.6
2000	148.3			148.3
2001	151.1			151.1
2002	224.5			224.5
2003	204.4			204.4
2004	159.1			159.1
2005	159.1	0.0		159.1
2006	87.6	56.9		144.5

2007	97.2	83.2		180.5
2008	28.0	90.2		118.1
2009	0.0	73.4		73.4
2010	0.0	64.9	0.0	64.9
2011	0.0	56.7	8.0	64.6
2012	1.8	95.5	37.4	134.6
2013	0.0	72.3	0.0	72.3
2014	0.0	61.8	1.8	63.6
2015	0.0	99.8	0.0	99.8
2016	0.0	98.8	0.0	98.8
2017	0.0	81.8	0.0	81.8
2018	0.0	72.9	0.0	72.9
2019	0.0	71.6	0.0	71.6
Average		77.1		99.0
Minimum		56.7		8.0
Maximum		99.8		224.5

Since the estimated average annual recharge to the Sioux Quartzite aquifer is unknown, it is not possible to do a quantitative comparison of recharge to the withdrawals. A qualitative comparison of recharge to withdrawals can be accomplished by considering water level trends in the aquifer.

Aquifer Water Levels

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. Currently, the DENR Water Rights Program does not maintain any observation wells completed into the Sioux Quartzite aquifer (Water Rights, 2020c).

The available information for water level trends in the Sioux Quartzite aquifer is provided by the static water level data submitted on water well completion reports (Table 3). Using the static water level data from the well completion reports provides a much more limited set of data, as they provide a single measurement at a well, and not a historical trend at each well. Lindgren and Niehus (1992) state that “observation wells completed in the Sioux Quartzite aquifer show a close correlation with long term trends in precipitation”. The Sioux Quartzite aquifer observation well that they showed in their report is still monitored by the Water Rights Program (Observation Well MA-80I), however it is identified as being completed into the Sioux Quartzite Wash aquifer. Given the stratigraphic proximity of the Sioux Quartzite Wash aquifer to the Sioux Quartzite aquifer, it is likely that the water levels in the Sioux Quartzite aquifer follow a similar trend. The hydrograph for observation well MA-80I is included for illustrative purposes (Figure 1).

Table 3. Data from water well completion reports (Water Rights, 2020c)

Last Name/Permit No.	Year Drilled	Distance from Application (miles)	Direction from Application	Approximate Ground Elevation (ft)	Estimated Water Level (ft)	Approximate Elevation Top of the Sioux Quartzite (ft)
Kuhnert	1956	2.0	E	1368	1292	1302
Mryl and Roy's Paving	1995	2.1	E	1355	1307	1334
Skyberg	1995	3.0	E	1414	1288	1378
Skyberg	1997	3.1	E	1400	1354	1352
Vogel	1973	4.4	NE	1310	1220	1235
Rysavy	1980	1.1	NE	1319	1301	1301
Freeman	1982	2.8	NE	1370	1325	1344
Bakker	1973	2.7	NW	1479	1354	1344
Willow Run Golf Course (6618-3)	2004	0.1	NW	1306	1279	1233
Rieck	1957	3.0	W	1539	1409	1435
Yeo	1973	4.3	W	1404	1323	1336
Hanson	1973	4.3	W	1404	1260	1312
Reuter	1977	3.9	W	1485	1380	1355
Garvick	1977	1.7	W	1482	1420	1414
Pasley	1977	4.9	W	1398	1267	1292
Brown	1978	3.3	W	1470	1359	1368
Van Horst	1978	1.4	W	1482	1392	1387
Gacke	1978	1.2	W	1454	1292	1358
Nasser	1981	3.7	W	1469	1389	1409
Power	1983	3.6	W	1524	1441	1426
Hegg Property Management (5365-3)	1985	3.7	W	1455	1417	1407
Scott	1985	3.7	W	1509	1407	1391
YMCA (5931-3)	1995	4.3	W	1405	1404	1384
Prairie Hills Covenant Church (6553-3)	2004	1.8	W	1477	1407	1427
Miller	2006	1.4	W	1461	1356	1356
Woodlawn Cemetary (6910-3)	2009	5.1	W	1495	1385	1416
Gloria Dei Lutheran Church	2009	4.3	SW	1462	1347	1357
Hoff	1984	0.5	S	1447	1414	1416

Krueger	1991	2.7	S	1393	1292	1271
Sonstegard	2012	2.0	S	1315	1243	1268
Gunderson	1977	2.4	SE	1342	1305	1280
Teterson	1977	2.4	SE	1342	1316	1280
Steward	1978	2.5	SE	1299	1290	1272
Kniebel	1985	2.0	SE	1341	1308	1317
Kroon	1986	1.4	SE	1291	1302	1286
Andal	1993	1.7	SE	1308	1285	1288
Sioux Falls Parks & Rec (7805-3)	2012	0.6	SE	1322	1283	1283
Langner	2013	1.8	SE	1280	1263	1260

DENR Water Rights Observation Well: MA-80I

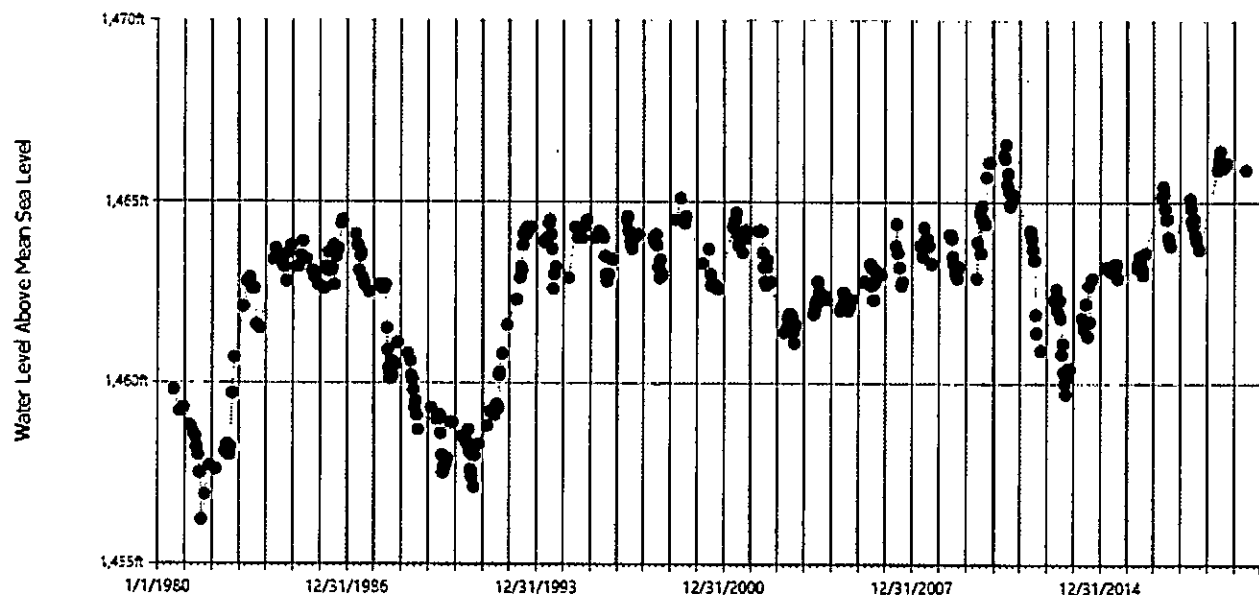


Figure 1. Hydrograph for Observation Well MA-80I in the Sioux Quartzite Wash aquifer (Water Rights, 2020c)

The well logs show water levels change in response to climatic conditions by gradually declining during drier periods and rising during wetter periods. Half of wells in this area are confined and half of the wells are unconfined, although given that this aquifer relies on the secondary porosity for the transmittal of water, the unconfined portions of the aquifer generally do not behave like a unconfined aquifer that relies on primary porosity. From the well completion reports, the static water level ranges from 90 feet below the top of the Sioux Quartzite to 46 feet above the top of the Sioux Quartzite, with the average being 5 feet below at the time of well completion. Given the estimated thickness of the Sioux Quartzite (1,000 + feet), the lowest recorded static water level indicated in well logs around the proposed diversion point being 90 feet below the top of the Sioux Quartzite, and that the water level in the aquifer responds to fluctuations in the

longterm precipitation trends, there is a reasonable probability that unappropriated water is available for this proposed diversion.

Potential for unlawful impairment of existing water rights

Statewide, there are currently 66 water rights/permits appropriating water from the Sioux Quartzite aquifer. The ones closest to Willow Run Golf Course are Water Right Nos. 7805-3 (0.55 miles) and 6553-3 (1.9 miles). Water Right No. 7805-3 is held by Sioux Falls Park & Recreation and is licensed for the withdrawal of 0.16 cfs for the irrigation of 8 acres. Water Right No. 6553-3 is held by Prairie Hills Covenant Church and is licensed for the withdrawal of 0.067 cfs for the irrigation of 4 acres.

From the map provided with the application, it appears that the proposed well will be within 200 feet of the existing well that is used for Water Right No. 6618-3. The nearest water well on record with the Water Rights Program that is not owned by the applicant and completed into the Sioux Quartzite aquifer is a domestic well located approximately 0.5 miles south of the application. Given the proximity of this proposed well to the applicant's existing well, this proposed well is not expected to adversely impact nearby wells before impacts occur to the applicant's existing well. The applicant should monitor the water levels in their wells so they do not impact each other.

At the proposed well site, there is approximately 46 feet of artesian head pressure above the top of the aquifer. South Dakota Codified Law (SDCL) 46-6-6.1 does not necessarily protect artesian head pressure as a means of delivery, and the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. The Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use of water issue for Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills. The Water Management Board adopted Findings of Facts and Conclusions of Law that noted reservation of artesian head pressure for delivery of water would be inconsistent with SDCL 46-1-4 which states, "general welfare requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable..." (Water Rights, 1995). Furthermore, the Water Management Board found if increased cost or decreased production as a result of impacts on artesian head pressure by legitimate users is to be considered an adverse impact it would also be in conflict with SDCL 46-1-4 (Water Rights, 1995). In order to balance interests between appropriative use and delivery of water by artesian head pressure, the Water Management Board defined an "adversely impacted domestic well" in Administrative Rule of South Dakota (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".

However, in the Sioux Quartzite aquifer, the ability of a well to produce water relies upon the secondary porosity, the irregular and unpredictable fractures and joints of the aquifer. The

reliance upon the secondary porosity, in most cases, requires a well to be completed more than 20 feet into the aquifer in order for the well to be a dependable water supply.

The minimum depth of a well is not regulated; however, there are requirements for the installation of pumps in wells (ARSD 74:02:04:60). The rule requires that the depth where the pump is placed be determined by dividing the specific capacity of the well into the required yield and adding at least 10 additional feet to keep the pump inlet submerged. However, this does not account for normal changes in the static water level due to climactic fluctuations of the aquifer or a reduction in the performance of the well; the placement of the pump may have to be adjusted to meet pump placement requirements. If well depth allowed for pump placement per ARSD 74:02:04:60 and well interference requires the well be deepened, that interference could be considered an adverse impact. However, if the affected well is not deep enough to allow compliance with the requirements of ARSD 74:02:04:60, interference that would require deepening of the well may not be considered an adverse impact.

Given the information that is available on the Sioux Quartzite aquifer and the appropriation requested by this application, if approved, the proposed diversion is not expected to cause unlawful impairment of domestic or existing appropriative users of the Sioux Quartzite aquifer, provided their wells are adequate pursuant to both ARSD 74:02:04:20(7) and ARSD 74:02:04:60.

Conclusions

1. Water Permit Application No. 8445-3 proposes to appropriate water for the irrigation of 71 acres at a maximum instantaneous diversion rate of 0.44 cubic feet per second (cfs) for irrigation use from one well to be completed into the Sioux Quartzite aquifer in Minnehaha County.
2. The average annual recharge to the Sioux Quartzite aquifer has not been quantified. However, the best information reasonably available suggests that withdrawals from the Sioux Quartzite aquifer have not exceeded the recharge to the Sioux Quartzite aquifer.
3. The Water Rights Program does not monitor any observation wells completed into the Sioux Quartzite aquifer.
4. There is a reasonable probability that the diversion proposed by this application will not unlawfully impair adequate wells for existing water rights and domestic uses.



John Farmer

SD DENR – Water Rights Program

References

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- Lindgren, R. J. and Niehus, C. A. 1992. Water Resources of Minnehaha County, South Dakota. Water-Resources Investigations Report 91-4101. United States Geological Survey. Huron, South Dakota.
- McCormick, K. A. 2010. Elevation Contour Map of the Precambrian Surface of South Dakota. South Dakota Geological Survey General Map 11 Sioux Ridge Inset, scale 1:160,000. Vermillion, South Dakota.
- Magstadt, T., 2020. Report on Permit Application No. 8437-3 United Concrete Inc. October 20, 2020. SD DENR-Water Rights Program Permit Files. Pierre, South Dakota.
- Martin, J. E., Sawyer, J. F., Fahrenbach, M. D., Tomhave, D. W., and Schulz, L. D. 2004. Geologic Map of South Dakota. General Map 10. South Dakota Geological Survey, Vermillion, SD.
- Tomhave, D. W. 1994. Geology of Minnehaha County, South Dakota. South Dakota Geological Survey Bulletin 37. Vermillion, South Dakota. South Dakota Geological Survey General Map 9. Vermillion, South Dakota.
- Water Rights. 2020a. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2020b. Well Completion Report Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2020c. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2020d. Irrigation Questionnaire Database. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 1995. Findings of Fact, Conclusions of Law, and Final Decision in the Matter of Water Permit Application No. 2313-2, Coca-Cola Bottling Company of the Black Hills. SD DENR-Water Rights Program file for Water Right No. 2313-2. Pierre, South Dakota.

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, November 23, 2020 9:05 AM
To: Barry Anderson
Subject: Water Permit Application No. 8445-3
Attachments: 0141.pdf

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

Karen Schlaak
Water Rights Program
(605) 773-3352



Argus Leader

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

RECEIVED

DEC 14 2020

WATER RIGHTS
PROGRAM

Account No: 6053355900

Ad No: 0004481315

PO #: Notice of App No. 844-3 to

Lines : 112

Ad Total: \$ 73.44

This is not an invoice

of Affidavits: 1

G. L. MANAGEMENT LLC
8000 E ARROWHEAD PARKWAY
SIOUX FALLS, SD 57110

Account No.: 6053355900

Ad No.: 0004481315

Argus Leader AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA

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

Thursday, December 3, 2020

Sworn to and subscribed before me this 14 day of December, 2020,



Legal Clerk



Notary Public, State of Wisconsin, County of Brown

9-19-21

My Commission expires

VICKY FELTY
Notary Public
State of Wisconsin

NOTICE OF
APPLICATION NO. 844-3
to Appropriate Water

Notice is given that G. L. Management LLC, Thomas P. Walsh Sr., 8000 E Arrowhead Parkway, Sioux Falls SD 57110 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well to be completed in to the Sioux Quartzite Aquifer (460 feet deep) located in the SE 1/4 SE 1/4 Section 20 for Irrigation of 71 acres of Willow Run Golf Course located in the S 1/2 NW 1/4, N 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 20; all in T101N-R48W. Water will be pumped from the well to an existing 3.9 acre-foot storage pond located in the SE 1/4 SE 1/4 Section 20-T101N-R48W prior to irrigation of the golf course. This site is located on the east side of Sioux Falls SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 844-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Ron Duval 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 December 14, 2020.

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,

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

Published once at the total approximate cost of \$73.44.

4481315 Dec. 3, 2020

If the applicant does not

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, November 23, 2020 8:59 AM
To: 'legals@argusleader.com'
Subject: 8445-3, G. L. Management LLC
Attachments: 8445-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on December 3, 2020.

G. L. Management LLC, c/o Thomas P Walsh Sr, 8000 E Arrowhead Parkway, Sioux Falls SD 57110 (605 335-5900) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

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

Karen Schlaak

Water Rights Program
(605) 773-3352



DENR
SOUTH DAKOTA



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SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

November 23, 2020

G. L. Management LLC
Thomas R. Walsh Sr
8000 E Arrowhead Parkway
Sioux Falls SD 57110

Dear Mr. Walsh:

Water Permit Application No. 8445-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Argus Leader printed at Sioux Falls SD (Ph # 605 331-2200). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the 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,

Karen Schlaak

Karen Schlaak
Water Rights Program
(605) 773-3352

enclosures

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

c: Barry Anderson, Supt, Willow Run Golf Course

NOTICE OF APPLICATION NO. 8445-3 to Appropriate Water

Notice is given that G. L. Management LLC, Thomas P Walsh Sr, 8000 E Arrowhead Parkway, Sioux Falls SD 57110 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well to be completed into the Sioux Quartzite Aquifer (460 feet deep) located in the SE 1/4 SE 1/4 Section 20 for irrigation of 71 acres at Willow Run Golf Course located in the S 1/2 NW 1/4, N 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 20; all in T101N-R48W. Water will be pumped from the well to an existing 3.9 acre-feet storage pond located in the SE 1/4 SE 1/4 Section 20-T101N-R48W prior to irrigation of the golf course. This site is located on the east side of Sioux Falls SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8445-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by December 14, 2020.

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

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

Published once at the total approximate cost of _

Schlaak, Karen

From: Schlaak, Karen
Sent: Monday, November 23, 2020 8:59 AM
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Attachments: 8445-3public.short.docx; FORM8.FRM.doc

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G. L. Management LLC, c/o Thomas P Walsh Sr, 8000 E Arrowhead Parkway, Sioux Falls SD 57110 (605 335-5900) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

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

Karen Schlaak

Water Rights Program
(605) 773-3352





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SOUTH DAKOTA

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 19 2021

G. L. Management LLC
c/o Thomas P Walsh Sr.
8000 E Arrowhead Parkway
Sioux Falls SD 57110

Dear Mr. Walsh:

Enclosed is Water Permit No. 8445-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

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

Date July 13, 2021

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

RECEIVED

JUL 16 2021

WATER RIGHTS
PROGRAM

FROM:

Barry Anderson
(name)
8000 E Arrowhead Pkwy
(address)
Sioux Falls SD 57110
(city, state, zip)

605-261-7724
(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. 8445-3 states that the water use system is to be constructed by 12/14/2025, and water is to be put to beneficial use by 12/14/2029.
(date) (date)

The water use system was completed on 4/30/2021.
(date)

Applying the water to beneficial use was completed on 5/1/2021.
(date)

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

Barry Anderson
(signature)



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8445-3

I have this day, November 5, 2021, made a thorough examination of the water use system constructed by G. L. Management LLC, 8000 E Arrowhead Parkway, Sioux Falls, SD 57110 of Permit No. 8445-3, bearing the priority of September 11, 2020 authorizing the diversion of 0.44 cu. ft. per second of the waters of the Sioux Quartzite Aquifer for irrigation (golf course) purposes, in Minnehaha County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Dave Putzke Well Drilling
- 2) No. of Wells 1
- 3) Depth 465 feet
- 4) Well log is available Y (well drilled in April, 2021)

Casing:

- 1) Diameter 8 inches
- 2) Length 75 feet
- 3) Type steel

Screen:

- 1) Type None (into granite)
- 2) Static water level 32 feet

Pump:

- 1) Make unknown
- 2) Model Submersible
- 3) Capacity 115 GPM

Motor: unknown

B. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N (See Section D)
- 3) Exceptions to compliance are: None

C. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: From the SE corner Sec 20 T101N R48W, 900 ft N & 790 ft W, Lat 43.53173 Long -96.61444 (SE ¼ SE ¼ Sec 20)
2. The works are capable of diverting and conveying to the place of use 0.26 cu. ft. per second of water which is to be used for irrigation of 71 acres of a golf course located as follows:
 - S ½ NW ¼; N ½ SW ¼, SW ¼ NE ¼, W ½ SE ¼ and SE ¼ SE ¼ Section 20, T101N, R48Wthe license should be issued for 0.26 cfs
3. All structures, wells and lands on map Y

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

The address and the phone number are current.

The course superintendent is Mr. Barry Anderson whose telephone number is 605/261-7724. He said the pump discharge is 115 gpm.

The Irrigation Questionnaire is not available as 2021 is the first year of operation and the report has not been submitted as of this date.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: November 8, 2021

Diversion Point Location

From the SE corner of
Sec 20 T101N-R48W
900 ft N & 790 ft W
Lat 44.53173
Long -96.61444

Irrigated Land

71 acres located in
Sec 20 T101N-R48W
within the following:
SW1/4 NW1/4
SE1/4 NW1/4
NE1/4 SW1/4
NW1/4 SW1/4
SW1/4 NE1/4
NW1/4 SE1/4
NE1/4 SE1/4
SE1/4 SE1/4
SW1/4 SE1/4

Section 20
T101N-R48W

Well

Reference
Corner



0 625 1,250 2,500 3,750 5,000 Feet

Licensing of Acreage Outside of Permitted Area

NAME: G.L Management LLC

ADDRESS: 8000 E Arrowhead Parkway, Sioux Falls SD 57110

DATE: November 9, 2021

COUNTY: Minnehaha

AUTHORITY

Pursuant to SDCL 46-5-30.5, acreage developed for irrigation outside of the area described on the permit may be licensed provided the following conditions are met:

NO INCREASE IN PERMITTED ACREAGE OR WATER APPROPRIATED:

The acreage developed for irrigation is 71 acres as compared to 71 acres authorized by the permit.

UNPERMITTED ACREAGE:

- **Contiguous to Permitted Acreage**

The one acre is located in the SW ¼ NE ¼ which is immediately adjacent to the authorized irrigation located in the S ½ NW ¼, N ½ SW ¼, W ½ SE ¼, SE ¼ SE ¼ all in Section 20 T101N R48W.

- **Owned by Same Property Owner**

The property is owned by All In Golf LLC

- **Developed Prior to Expiration of Construction Period**

Yes, the construction period does not end until December 14, 2025.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the 1 acre area be included in the water license.



Mark D Rath, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant to SDCL 46-5-30.5 that:

This acreage change does not impair existing water rights and the overall project, as developed, is consistent with the original application. Licensing of the unpermitted acreage may occur without application or publication pursuant to SDCL 46-2A-4.



Eric Gronlund, Chief Engineer
Water Rights Program

Water Rights Program - DANR

Conversation or File Documentation

Name of Person: *Barry Anderson, G.L Management LLC – Willow Run GC***File No.** 8445-3**Address:** *8000 E Arrowhead Parkway***County:** *Minnehaha***Date:** *09-29-2022***Telephone:** *605-261-7724***RE:** *Construction period for No 8445-3***Comments:**

Barry Anderson returned my call concerning the water permit inspection that had been performed. I asked him if they pumped from the well into the pond and then from the pond through the sprinkler system. He indicated they did. He said they have two pumps at 600 gpm each they use to divert from the holding pond for irrigation. He asked if they could upsize the pump from the well. I told him the permit was issued for 0.44 cfs, but the inspection found they only can divert at 0.25 cfs based upon the pump they have installed. I told him if we were to license the permit now, we would reduce the license to 0.25 cfs.

I told him that the construction period for the permit runs until 12/14/2025, if we hold off licensing until the construction period expires and reinspect at that time, it would allow them 3 years to install a higher capacity pump. Mr. Anderson asked that we hold off with doing the inspection and licensing until the construction period runs out.



Mark D Rath

Natural Resources Engineer III