

FUTURE USE WATER PERMIT NO. 6696-3

Name of Applicant: City of Brandon

Address: PO Box 95, Brandon SD 57005

Phone: 605 582-6515

Amount of Water Claimed: 1,227.70 AF

Total Acres: na

Source of Water Supply: Big Sioux Aquifer

Water to be used for: municipal use

County: Minnehaha

Type of Waste Disposal System:

Location: southeast corner of the city

PRIORITY Date Received: 1-27-2006

Application/License Fee: \$45

Corrected Application Received: 2-15-2006

Period of Annual Use:

Remarks: future use application

Future Use area: SW ¼ Sec 35-T102N-R48W and
NW ¼ Sec 2- T101N-R49W

Land to be Irrigated: NA

Depth of Well:

Well Driller:

Remarks:

Type of Map: plat

Prepared by: Jon R Brown, RPE

Reviewed and the Number Assigned on: 2-15-06

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SD EForm - 1585 V1
FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6696-3</u> (office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Argus Leader, Sioux Falls</u>

RECEIVED
JAN 27 2006
WATER RIGHTS
PROGRAM

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

Check use(s) of water:

- | | | | |
|---|---|--|--|
| ☒ Municipal | ☐ Suburban Housing | ☐ Recreational | ☐ Institutional |
| ☐ Rural Water System | ☐ Commercial | ☐ Fish & Wildlife | ☐ Geothermal Heat |
| ☐ Domestic (over 18 gpm) | ☐ Industrial | ☐ Other _____ | |

Type of Application: (check one)
☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☒ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

- Name of Applicant City of Brandon Phone (605) 582-6515
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P.O. Box 95 Brandon State SD 57005
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM 1,227.70 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Big Sioux Aquifer
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Minnehaha
See map for approx. location: SW 1/4 Section 35-T102N-R48W and NW 1/4 Section 2-T101-R48W
- County or counties where water will be used Minnehaha
- Annual period during which water is to be used To be determined January 1 - December 31
- 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)

Attached is the engineering report completed by TKDA which includes all pertinent information to describe the project. Also attached is a letter to justify an acceptance to Rule 74:02:01:24.01 "Future use applications and future use permits limited."

STATE OF SOUTH DAKOTA)

County of Minnehaha SS

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

I, Dennis E. Olson, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Dennis E. Olson City of Brandon

Subscribed and sworn to before me this 24th day of January 20 06

Pamela Kuehn
Notary Public signature

expires 10/31/2011

**SOUTH DAKOTA
FUTURE USE PERMIT NO. 6696-3**

Date of first receipt of application January 27, 2006.

Date of receipt of corrected application February 15, 2006.

The Chief Engineer, on behalf of the Water Management Board, issues Future Use Permit No. 6696-3 to the City of Brandon, PO Box 95, Brandon SD 57005 subject to the following limitations, conditions and qualifications:

1. Future Use Permit No. 6696-3 reserves for future use 1,227.70 acre-feet annually from the Big Sioux:South Aquifer. The area to be reserved is located in the SW ¼ Section 35-T102N-R48W and the NW ¼ Section 2-T101N-R48W.
2. The water appropriated shall be used for the purpose of future water supplies for municipal use by the city 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. 6696-3 is April 10, 2006.
5. The date from which applicant may claim right is January 27, 2006.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Permit No. 6696-3 reserves 1,227.7 acre feet of water annually from the Big Sioux:South Aquifer.
2. That Future Use Permit No. 6696-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. At such time as definite plans are made to construct works and put the water reserved by this permit to beneficial use, specific application for all or any part of the reserved water must be submitted and approved prior to construction of facilities pursuant to SDCL 46-5-38.1.

WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

APR 27 2006

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter N/A Depth Appr. 60'
- b) Casing Type N/A Diameter _____ Thickness _____
- c) Screen Type N/A Diameter _____ Thickness _____
- d) Gravel Pack N/A Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____ N/A
- f) Depth to Water (ground surface to water level) _____ N/A
- g) Distance to nearest existing domestic well:
- On applicants property Approx. 2000' On 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

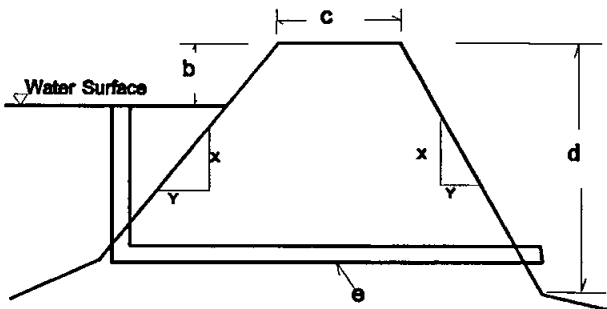
3. Dugout Information

- 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 _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date February 10, 20 06

RECEIVED OF Brandon City Hall, PO Box 95, Brandon SD 57005

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	15	00
Fee for Application for Permit No. <u>66696-3</u> 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. _____		
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	15.00

No.

02292

By

Darland Ebele
Chief Engineer

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date January 27, 2006

RECEIVED OF Brandon, PO Box 95, Brandon SD 57005

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		
Fee for Application for Permit No. <u>66696-3</u> to Appropriate Water for Future use	30	00
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. _____		
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	30.00

No.

02244

By

David E. Ebel

Chief Engineer

gm

DENR COPY

REPORT

WATER SYSTEM PLAN

City of Brandon, South Dakota

Date: July 8, 2005
Project No. 13297.000



Stockwell Engineers, Inc.

TKDA

ENGINEERS • ARCHITECTS • PLANNERS

1500 Piper Jaffray Plaza
444 Cedar Street
Saint Paul, MN 55101-2140

(651) 292-4400
(651) 292-0083 Fax
www.tkda.com

TKDA

ENGINEERS • ARCHITECTS • PLANNERS

SAINT PAUL, MINNESOTA

July 8, 2005

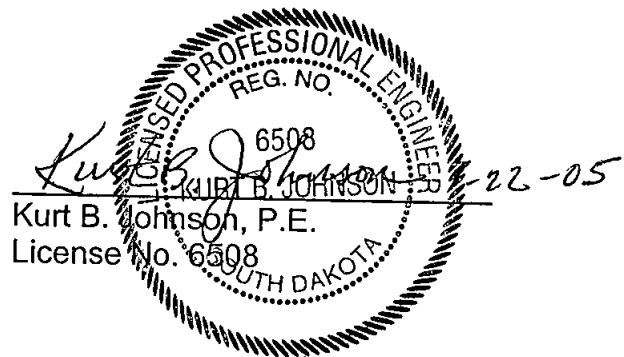
REPORT

WATER SYSTEM PLAN

CITY OF BRANDON, SOUTH DAKOTA

PROJECT NO. 13297.000

I hereby certify that this Report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota.



**WATER SYSTEM PLAN
CITY OF BRANDON, SOUTH DAKOTA**

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~~9. Appendix~~ NOT INCLUDED

- ~~Water Storage Ledger Chart~~
- ~~Water Treatment and Supply Ledger Chart~~
- ~~Comparative City Water and Sewer Rates, May 2006~~
- ~~Map of Future Water Systems~~

1. Introduction

1.1. Background

The City of Brandon is located in Minnehaha County, South Dakota, approximately 7 miles east of the City of Sioux Falls. Brandon has been experiencing rapid residential, commercial and industrial growth. The City expects to continue to develop at this pace over the next twenty years.

This water study was conducted for the City of Brandon in order to determine the facilities required to provide water to the existing and future service areas of the City.

In 1995, TKDA staff working in conjunction with Stockwell Engineers, prepared and presented a water distribution study for the City of Brandon. The projected growth rate for the City utilized in that study was 2.5% and the estimated future population for the year 2015 was 7240 people. The City has been growing at a much faster rate and will likely exceed 7240 people in the year 2006.

Following the 1995 Study two additional water distribution studies were prepared and presented for the City of Brandon. These studies looked at providing both sewer and water service to the immediate and future service areas east and west of the City. Both of these areas along with additional commercial area north of I-90 have been incorporated in this water system plan. Based upon the current land use projections and these land areas, we estimate that the City of Brandon will exceed 38,000 people by the year 2035 if the current growth rate continues.

The water distribution system will have to accommodate the projected increases in water utilization and service areas. The City of Brandon currently has a population of around 7,200 residents. In the next 25 years, if past growth continues, this population may approach 25,000 residents by the year 2030. Three separate pressure systems serve the City; an East, West and Central system. To meet future water demands, service needs be extended to the different areas of the City with priority on the western developments, northern developments and then the eastern developments.

Currently Brandon's water system has an average day demand of 720,000 gallons and a peak day demand of 2,200,000 gallons. The existing Brandon Water System consists of one water treatment plant (WTP), one ground storage tank, one active elevated tank, two booster stations, six wells, and a system of water mains ranging in size from 4 to 16 inches in diameter. Drinking water for the City of Brandon is currently supplied through the network of five wells that supply water to the treatment plant, one standby well which can pump directly to the distribution system and a 500,000 gallon finished water reservoir. Water from the treatment plant is distributed throughout the City by a network of pipes referred to as the distribution system. The distribution system includes booster pumps, elevated water storage, water mains, service lines, gate valves, fire

hydrants and other control and metering devices necessary to operate the system. The distribution system must be sized adequately to be able to meet the water and fire demands of the City. The City must simultaneously supply water to meet peak water use demands and fire fighting flows while maintaining acceptable minimum pressures throughout the system.

1.2. Purpose

The purpose of this Water System Plan is to provide recommendations to the City of Brandon for meeting their existing and future water needs. Recommended distribution improvements are proposed so that the system will meet the future water demands through the year 2030. The report will incorporate water system improvements into a long term plan. The City can use this report as a guide when expanding their distribution system, supply, treatment and storage components so that the future system will be able to adequately meet the water demands of the current proposed service area.

2. Existing System

2.1. General Information

Water is supplied to the City of Brandon by six wells. Wells No. 1, 2, 4 and 5 are shallow wells located in Aspen Park, in the south west area of the City. These wells can provide a combined total capacity of 900 gpm. Water from these four shallow wells is pumped to a ground storage reservoir in Water Treatment Plant Number 1 (WTP-1). From the reservoir, a booster station pumps the finished water directly into the distribution system. Well No. 3 is a deeper Split Rock Aquifer well in the eastern part of the City with a current capacity of around 700 gpm that pumps directly into the system. Well No. 6 is located near the Water Treatment Plant and is the main supply of water for the Brandon system. The water treatment plant provides for the removal of iron and manganese from the Well No. 6 supply. This primary well has a capacity of 2,000 gpm and runs as required to supply the system. Supply from Well No. 6 can be combined with the Aspen wells and can provide a total supply capacity of around 2,900 gpm. The high service pumps used in combination with the 500,000 ground storage reservoir can provide a treated water supply capacity of 2,500 gpm to the system.

The water system needs to meet water use demands and fire fighting flows while maintaining acceptable minimum pressures throughout the system. The water distribution system was designed to provide minimum fire flows of 1,500 gpm to all residential areas and 3,500 gpm to all commercial and industrial areas. Water pressures should be 50-80 psi for normal operations, a minimum of 20 psi at fire flow withdrawal periods.

The Brandon water distribution system currently has three different operating zones. The Central zone serves the City of Brandon with an overflow level of

1498 feet. Land elevations in this area range from 1310 feet to 1365 feet, resulting in available pressures of 50-76 psi throughout this zone. The western zone operates from a booster station which pumps to a head of 1580 feet because land elevations are higher in this area, around 1320 to 1450 feet. The pressure for this system is 55-75 psi. The eastern system has ground elevations of 1360 to 1480 feet and operates off a booster station which pumps to a head of 1570 feet.

Table 1 - Existing Pressure Zones

Operating Levels	Area Served
1498'	Central Brandon, Main Zone
1580'	West area, south of Brandon Road
1570'	East of Chestnut Avenue including Country Club Heights

2.2. Water Supply

There are 6 main wells that supply water to the City of Brandon. Firm well capacity is used as an indicator of a system's ability to provide adequate water supply to meet peak day demands. Firm well capacity is defined as the amount of water a system can deliver with the largest well out of service. The present water production capacity is 3,345 gpm, with a firm well capacity of 1,345 gpm.

Table 2- Existing Well Data

Well No.	Status	Type	Depth (ft)	Diameter (in)	Original Rate (gpm)	Recent Rate (gpm)
1	Backup	Aspen Park	48'	10"	210 gpm	170 gpm
2	Backup	Aspen Park	50'	8"	150 gpm	65 gpm
3	Backup	Split Rock	222'	12"	600 gpm	700 gpm
4	Backup	Aspen Park	52'	10"	270 gpm	190 gpm
5	Backup	Aspen Park	56'	10"	255 gpm	220 gpm
6	Active	Split Rock	275'		2,000 gpm	2,000 gpm

Total 3,345 gpm

The existing water treatment plant was designed to allow the Aspen Park shallow wells to bypass the plant during peak water demand periods. The Aspen Wells supply water which contains nitrate concentrations but that is free of iron and manganese. These wells can be used to meet peak day water demands by blending their supply with the finished water from the Split Rock Creek Well No. 6 at the reservoir. Water from Well No. 6 will remain the primary supply for the water treatment plant and thus nitrate levels will only increase in the finished water during peak demand periods. Blending the Aspen Park water supply wells during peak demand periods should not impact finished water for consumers.

Future raw water supply from the Split Rock Creek aquifer will require treatment to remove iron, manganese and may also require treatment for radium removal also. Water samples collected from the Split Rock Creek aquifer indicated that about 50% of the samples had gross alpha greater than 15 (p Ci/L) and these radium levels exceed the USEPA Radionuclide Rule which sets the maximum contaminant levels for radioactivity in finished water.

Compliance with the Radionuclide Rule may be obtained by blending raw water supplies prior to the water treatment plant or by adding hydrous manganese oxide with the iron and manganese treatment process. While the existing City Split Rock wells do not have radium issues, recent water supplies indicate that an existing Sioux Falls well water supply contains radium which exceeds the Radionuclide Rule. Therefore, new wells drilled into the Split Rock Creek aquifer may or may not require additional blending or treatment to remain in compliance with regulations.

In order to determine the future treatment requirements, test wells should be drilled to determine the water quality available.

2.3. Piping Network

The City of Brandon's distribution system consists of water main 4 to 16 inches in diameter. The majority of the water mains are constructed from PVC piping.

2.4. Water Treatment

The water treatment plant is located in Aspen Park near wells No. 1, 2, 4, 5 and 6. Given the location and layout of this facility, expansion in the park is not feasible. A generator is onsite to provide backup power to the treatment plant.

Table 3 - Existing Water Treatment

Plant	Capacity (gpm)	Location	Treatment Received	Supply Water
WTP-1	2500 gpm	Aspen Park	Iron and Manganese	Split Rock Creek Aquifer
WTP-1 Bypass	900 gpm	Aspen Park	None	Aspen Park Wells

2.5. Booster Stations/Pumps

With the varying elevations in the City of Brandon's water system, booster stations have been installed to transmit the treated water through the distribution system. In the event of a failure of these pumps at a booster stations, a check valve would be opened, allowing water to float at a low pressure from the main system to the other systems. The booster stations have generators to provide back up power to the facilities.

Table 4 - Existing Booster Station Data

Booster Station	Firm Pumping Capacity (gpm)	Pressure Zone (ft)	No. of Pumps	Hp per Pump
Redwood	1400 gpm	1570'	3	25 hp
Pioneer Trail	1200 gpm	1580'	3	20 hp

2.6. Existing Storage

Normal water utility practice is to provide storage on a system which equals the system's average daily water demand. Currently, the City of Brandon has one 250,000 gallon elevated storage tank and one 500,000 gallon ground storage reservoir on the system. The current water storage capacity of 750,000 gallons exceeds the average daily water use of 720,000 gallons per day.

Table 5 - Existing Water Storage

Location	Status	Volume	Type	Overflow
Holly Boulevard	Active	250,000 gal	Elevated Tank	1498'
Country Club Heights	Inactive	50,000 gal	Elevated Tank	NA
WTP-1	Active	500,000 gal	Ground Storage	NA

2.7. Fire Flow Considerations

The Insurance Services Office (ISO) publishes a report that quantifies the magnitude and duration of fire suppression water requirements for individual structures. This information is summarized in a Needed Fire Flow Batch Report. These estimated water requirements are primarily for major commercial, industrial and public buildings. With this quantity of required fire fighting water, the water system is evaluated on its ability to deliver these amounts at appropriate pressures while simultaneously providing a peak day water demand.

The water system plan is designed to provide fire flows as follows: 1,500 gpm for single family residential homes, and 3,500 gpm for major buildings. To determine water storage required, a fire flow of 3,500 gpm for three hours was used.

2.8. System Supply Requirements

Firm well capacity is defined as the amount of water a system can supply with the largest well out of service. Firm well capacity for the City of Brandon is 1,345 gpm (2 MGD) with the Aspen wells in service. The firm capacity of the system plus the firm well capacity should equal peak day demands. Currently the average day water use for the City of Brandon is approximately 720,000 gallons, with an estimated peak day use of 2,200,000 gallons per day.

3. Expanded Service Area Demands

3.1. Service Areas and Population Served

The City of Brandon services approximately 7,200 residents with its existing water system. Growth is anticipated in areas west, east and north of the City and the existing water supply system will have to be expanded to service these new areas. The system was also evaluated to provide water to service the City of Corson.

Population projections are based upon the average growth rate for the past 10 years, which was 5.8% per year. Average daily water demand is estimated to be 100 gallons per capita per day. Peak day water demand is expected to be a factor of 3.0 times average day use. Future growth through the year 2035 is projected to be as follows:

Table 6 - Population Projections

Year	Population	Average Day Water Use	Peak Day Water Use
2005	7,060	706,000 gallons	2,120,000 gallons
2010	9,110	911,000 gallons	2,730,000 gallons
2015	11,750	1,175,000 gallons	3,530,000 gallons
2020	15,160	1,516,000 gallons	4,550,000 gallons
2025	19,550	1,955,000 gallons	5,870,000 gallons
2030	25,220	2,522,000 gallons	7,570,000 gallons
2035	32,530	3,253,000 gallons	9,760,000 gallons

In order to calculate future water demand we used two different methods, based on the available data. This first method used population projections and estimated water use per person to determine the future need. The second method projects water use by the type of development and water use per acre of this development. Residential projections were calculated using the following estimates; 100 gallons per person per day for average use, 9 people per acre and an average day to peak day ratio of 3.0. Commercial and Industrial use was calculated by assuming 1,800 gallons per day per acre and by estimating an average to peak day ratio of 1.0 to 1.5.

This second method is more conservative, so that is the method we will use in the report. Using this method it is estimated that the City of Brandon is expected

to utilize a maximum of 4.0 million gallons of water on an average day and 10.2 million gallons of water on a peak day.

Table 7 - Future Use Projections

Area	Land Use (acre)			Water Use (gpd)			
	Residential	Comm. or Industr.	Total	Residential	Comm. or Industr.	Average Day Total	Peak Day Total
Existing				724,500		724,500	2,173,500
West	700	580	1,280	630,000	1,044,000	1,674,000	3,456,000
East	1,120	320	1,440	1,008,000	576,000	1,584,000	3,888,000
North		240			432,000	432,000	648,000
Corson				9,000		9,000	27,000

Totals (gpd) 4,423,500 10,192,500

3.2. Water Distribution Analysis

The ultimate distribution system will need to provide fire flows along with peak day water demands. To determine the distribution system improvements required for this system, we obtained information regarding future land area and the type of development planned for these areas from Stockwell Engineers and City staff. As the future service area or land use may change, we have tried to be conservative in design recommendations for the system.

3.3. Water System Improvements

In order to meet the water demands of the expanded service area, the City will need to make major improvements to the existing water system. These improvements include additional water supply wells, water storage facilities and water distribution mains. Recommended improvements have been listed on a time schedule based upon the City's current growth rate and estimated costs for the improvements are based on 2005 costs.

4. Recommended System Improvements

4.1. Supply Improvements

Firm well capacity is used as an indicator of a system's ability to provide adequate water supply to meet peak day demands, while one of the wells is out of service due to a mechanical or power failure. The present water production

capacity is 3,345 gpm, with a firm well capacity of 1,345 gpm. The firm capacity of the system plus the firm well capacity should equal peak day demands. The peak day demand is 10.4 million gallons per day, or 7,300 gallons per minute. For the year 2030, the City of Brandon will need to have around 7,300 gpm of firm capacity. To satisfy short term requirements, the Aspen wells should be rehabilitated, the existing Sioux Falls well should be purchased and operated, a new Split Rock Creek well should be operational, and shallow wells should be included with WTP-2. For long term requirements, an additional Split Rock Well should be added to the system as needed to supply the demand. As an alternate to a new Split Rock Well, Well No. 3 could be connected to WTP-2 to supply the plant with around 1,000 gpm of water.

Table 8 - Firm Well Capacity

Well	Type	Future Capacity
New	Split Rock well	1,500 gpm
New	Split Rock well	1,500 gpm
Purchase existing Sioux Falls well	Split Rock well	1,500 gpm
New	Shallow wells at WTP-2	1,000 gpm
Wells No. 1, 2, 4, 5	Aspen Park	900 gpm
Well No. 3	Split Rock	700 gpm
Well No. 6	Split Rock	2,000 gpm
Total Capacity		9,100 gpm
Total Firm Capacity		7,100 gpm

4.2. Treatment Improvements

Additional treatment will be needed to meet future water requirements for the City of Brandon. Current treatment capacity is approximately 2500 gpm from Water Treatment Plant 1. As the system grows and new wells are added to supply the increasing demand, new treatment capacity will need to be implemented to treat the new raw water supplies. For ultimate treatment capacity, improvements should be as follows:

Table 9 - Water Treatment Improvements

Plant	Capacity (gpm)	Capacity (MGD)	Service Needed By	Treatment Received	Supply Water
WTP-1	2500 gpm	3.5 MGD	Existing Service	Iron and Manganese	Split Rock Creek aquifer
WTP-2	2000 gpm	2.9 MGD	2011	Iron and Manganese	New Split Rock well and shallow wells
WTP-2 Expansion	2000 gpm	2.9 MGD	2025	Iron and Manganese	New Split Rock well and shallow wells
Total	6,500 gpm	9.3 MGD			

4.3. Booster Station Improvements

A booster station will be required to service the future northern service area. Land elevations in this area range from 1350 to 1440 feet and are higher than the main service area. This new Stone Street booster station should run at an elevation of 1570' and have a capacity of 1400 gpm.

4.4. Storage Improvements

Minimum storage requirements have been established by "Ten State Standards", which state that, in the event of a power failure or equipment malfunction, storage volume must be greater than or equal to the average daily consumption, and should include a reasonable fire fighting reserve. This requirement may be reduced when the source water and treatment facilities have sufficient standby power capacity to maintain production during electrical power interruption. For the year 2035 the average daily use is projected to be 4,495,500 gallons and the design fire flow is defined as the capacity to supply 3,500 gpm of water for three hours. Generally, without sufficient standby power available for the system, the City should have 5,125,500 gallons of available storage.

Table 10 - Storage Required

Year	Average Day Use (gal)	Fire Fighting Reserve (gal)	Storage Required (gal)
2035	4,495,500 gal	630,000 gal	5,125,500 gal

When sufficient standby power is available at the source water and treatment facilities, an alternative method is frequently used is to determine the equalization storage volume needed to meet a peak day event and add to that required fire reserve. To reduce the storage volume needed, we will use this second method and ensure adequate standby power is available.

For this project, minimum storage requirements established by current industry practices require that the distribution system provide a sufficient volume of firm storage to allow for the equalization of peak day production rates, plus a reasonable reserve for fire fighting. The design fire flow is defined as supplying 3,500 gpm of water for three hours. The peak daily use by the year 2035 is projected to be 10,408,500 gpd. Given these parameters, storage capacity requirements for the City of Brandon are shown in Table 11. This table is a mass balance worksheet, which accumulates consumption and water pumped to the system during a peak day. Water consumption is shown according a standard diurnal pattern. This pattern gives a typical water demand peaking factor of versus the hour of the day. According to this chart, the needed equalization storage is the difference between the highest and lowest values in the storage column. To have sufficient storage to allow for peak day rates and fire flow, the City of Brandon must have 2,971,913 gallons of storage by 2035.

Table 11 - Ultimate Equalization and Fire Flow Demand Analysis

Hour	Distr.	Production (gal)	Demand (gal)	Sum Demand (gal)	Storage (gal)
1	0.10	433,688	43,369	43,369	390,319
2	0.20	867,375	86,738	130,106	737,269
3	0.35	1,301,063	151,791	281,897	1,019,166
4	0.51	1,734,750	221,181	503,078	1,231,673
5	0.68	2,168,438	294,908	797,985	1,370,453
6	0.88	2,602,125	381,645	1,179,630	1,422,495
7	1.13	3,035,813	490,067	1,669,697	1,366,116
8	1.25	3,469,500	542,109	2,211,806	1,257,694
9	1.00	3,903,188	433,688	2,645,494	1,257,694
10	0.84	4,336,875	364,298	3,009,791	1,327,084
11	0.81	4,770,563	351,287	3,361,078	1,409,484
12	0.89	5,204,250	385,982	3,747,060	1,457,190
13	1.03	5,637,938	446,698	4,193,758	1,444,179
14	1.23	6,071,625	533,436	4,727,194	1,344,431
15	1.44	6,505,313	624,510	5,351,704	1,153,609
16	1.69	6,939,000	732,932	6,084,636	854,364
17	2.00	7,372,688	867,375	6,952,011	420,677
18	2.25	7,806,375	975,797	7,927,808	-121,433
19	2.00	8,240,063	867,375	8,795,183	-555,120
20	1.63	8,673,750	706,911	9,502,093	-828,343
21	1.13	9,107,438	490,067	9,992,160	-884,723
22	0.65	9,541,125	281,897	10,274,057	-732,932
23	0.25	9,974,813	108,422	10,382,479	-407,666
24	0.10	10,408,500	43,369	10,425,848	-17,348

Equalization Storage	2,341,913	gal
Fire Flow Requirements	<u>630,000</u>	gal
	2,971,913	gal

The volume of 2,971,913 gallons determined by the equalization method is less than the volume of 5,125,500 gallons calculated from the Ten State Standards requirement. The City of Brandon should ensure that there is adequate backup power available at the supply water sources and treatment facilities so that they are required to have this lesser storage volume.

To meet ultimate storage capacity of approximately 3 million gallons the water system will need the following storage improvements. These added tanks will bring the ultimate storage capacity up to 4.25 million gallons. It is also recommended that the existing inactive Country Club Heights 250,000 gallon tank be taken out of service and removed.

Table 12 - Recommended Ultimate Water Storage Improvements

Location	Volume	Type	Overflow
Holly Boulevard	250,000 gallons	Elevated Tank	1498'
WTP-1	500,000 gallons	Ground Storage	NA
WTP-2	1,500,000 gallons	Ground Storage	NA
West Service Area Tank	1,000,000 gallons	Elevated Tank	1570'
East Service Area Tank	1,000,000 gallons	Elevated Tank	1570'

Ultimate Total 4,250,000 gallons

4.5. Distribution Improvements

The distribution system will need to be expanded and improved in order to adequately meet future demands. To serve new development, the distribution grid will have to be extended to these new areas. Costs for these development related improvements will be funded from impact fees. The grid also needs improvements to help strengthen its distribution capacity. Increasing the diameter of a water main will allow more flow through the pipe. New water mains can be added to interconnect or loop the system better. Costs for improvement to the existing grid will be covered under water rate and system revenues. When existing undersized water mains improvements are included with street projects, increase the size of the main to a minimum 8 inch diameter.

4.6. Water Appropriations

The City of Brandon has water rights for current and future use in the amount of 538.6 million gallons per year. This appropriated raw water is from a combination of the Split Rock Creek aquifer and the Big Sioux South aquifer.

City wells No. 1, 2, 3, 4 and 5 are permitted to withdraw a combined volume of 223.2 million gallons for present and future uses. Well No. 6 is permitted to withdraw 315.4 million gallons per year from the Split Rock Creek aquifer.

The City currently utilizes the Split Rock aquifer to obtain their basic water supply and will likely exceed the capacity of Well No. 6 and the permitted amount of 315.4 million gallons per year by the year 2010. In order to reduce the City's dependence on this single well, the Aspen Park wells should be utilized and blended with the treated water during peak water demand periods. The Aspen Park wells withdraw water from the Big Sioux South aquifer. This water should be blended with the Split Rock Creek supply due to nitrate levels in the shallow well aquifer.

Prior to the year 2020, the City will likely exceed their permitted water volumes from both the Split Rock Creek aquifer and the Big Sioux South aquifer. Brandon will need to apply for future water use appropriations from both aquifers. From review of the literature and information available, it appears that the Split Rock Creek aquifer may have a limited sustainable capacity of 5-7 million gallons per day.

The Split Rock Creek aquifer should be utilized as the base supply for the second water treatment plant. Water from the Big Sioux South aquifer should be used and blended with the Split Rock Creek treated water during peak water demand periods. It is apparent that to meet the projected long term water needs for the City of Brandon, both aquifers will be required in order to supply the City during high water demand periods.

Therefore, it is recommended that the shallow wells located in the Big Sioux South aquifer be utilized at both water treatment plants in order to meet peak day demands and to obtain firm well capacity. The City should apply for additional water use in an amount of 1,100 million gallons per year. This is the extra volume that will be required to serve the needs of the City for the next 25-30 years.

5. Conclusions

Deficiencies were identified during the evaluation of the water distribution system in Brandon, South Dakota. To meet future demands, improvements will have to be made to the system's existing water production, storage, treatment, and distribution facilities.

Specifically, the following conclusions were made:

- A. The existing water system is not able to provide enough firm supply capacity for the future peak day utilization of 10.4 MGD.
- B. The existing firm finished water storage capacity is insufficient to provide future equalization or fire flow storage volumes of 2.97 MG.
- C. Water treatment provided by the existing facility does not have enough capacity to service the future system.

- D. The current water main distribution grid will not be able to service new growth areas.
- E. Continue to supply standby power to the system's water supply wells, treatment facilities, booster stations and storage facilities.
- F. It is cost prohibitive to connect the existing Well No. 3 to the existing water treatment plant. Preliminary cost estimates are approximately \$500,000. It is more cost effective to add additional wells in order to increase the water supply capacity.
- G. To supply the future water treatment plant either a new split rock well should be constructed or existing Well No. 3 should be rehabilitated and connected to the new plant.

6. Recommendations

For the City of Brandon to adequately meet future demands, several water system improvements will be required. The ultimate water system will need the following improvements:

6.1. Short Term Recommendations

- Rehab the existing Aspen Park wells, pumps and motors to increase their capacity. Hardwire the well controls to allow for their operation from the water plant or so the wells are controlled by a level sensor in the clear well.
- Add a 2,000 gpm water treatment plant, WTP-2
- Add a 1,500,000 gallon ground storage reservoir at new WTP-2
- Implement test wells to determine new well locations
- Construct an additional Split Rock well and pumphouse near WTP-2
- Purchase the existing Sioux Falls Split Rock well located on Tract 1A and operate the new well with a pumphouse.
- Construct additional shallow wells near WTP-2
- Blend water from the Aspen Park wells with the Split Rock Creek aquifer to meet peak water demands.
- Add a 16" water main to distribute water from WTP-2 to the system.
- Add a new 12" water main along Sioux Boulevard to serve the northern developments

- Construct a new booster station located on Stone Street to service the northern developments at an elevation of 1570'
- Add a pressure reducing valve near or in this new booster station to maintain downstream pressure
- Connect to and provide service to the City of Corson
- Take the existing inactive Country Club Heights 250,000 gallon tank out of service and remove.
- Increase the size of the water main along Holly Boulevard to 12" during proposed street construction.
- Add additional raw water mains and distribution mains as needed for new development areas.
- Increase the annual capacity/appropriation of permitted water withdrawn by the water supply wells.

6.2. Long Term Recommendations

- Expand WTP-2 to a total capacity of 4,000 gpm.
- Construct a 1,000,000 gallon elevated tank in the western service area.
- Construct a 1,000,000 gallon elevated tank in the eastern service area.
- Construct an additional Split Rock well and pumphouse or rehab Well No. 3 and connect it to WTP-2
- Add standby power in supply wells, booster stations, treatment facilities
- Add a new 8" water main on the railroad right-of-way
- Add an 8" or 10" main from the east end of Aspen Boulevard to the south end of Kirkwood Boulevard.
- Add an 8" water main from the south end of Nicholas Ave to Sioux Boulevard.
- Add additional raw water mains to supply the treatment plants and distribution mains as needed to serve new development areas.
- Change out water mains in the distribution system to a minimum 8" diameter in conjunction with street improvement projects.

7. Capital Improvement Plan

Outlined below is the Capital Improvement plan for the City of Brandon's water system. All cost estimates are based on 2005 costs.

7.1. Short Term Plan

- Short Term Plan - Funded by Water System Revenues

<i>Description of Improvement</i>	<i>Begin Design by:</i>	<i>Item Should be Operational by:</i>	<i>Estimated Cost</i>
-Rehab/New Aspen Park Wells	2005	2006	\$ 120,000
-Construct two Test Wells	2005	2006	\$ 24,000
-New Split Rock Well and pumphouse	2006	2007	\$ 200,000
-Purchase Sioux Falls Well, construct pumphouse	--	2006	\$ 170,000
- Activate Sioux Falls Well	2008	2010	
-WTP-2	2007	2011	\$ 3,600,000
-1.5 MG Reservoir in WTP-2	2007	2011	\$ 1,200,000
-Add shallow wells to WTP-2	2008	2010	\$ 80,000
-Redwood Boulevard Pressure Regulating Station	2010	2011	\$ 20,000
-Approx 3,000 ft new raw water main	2010	2011	\$ 240,000

Subtotal Short Term Improvements	\$ 5,654,000
Engineering and Contingency (20%)	\$ 1,130,800
Total Estimated Short Term Cost from Water Funds	\$ 6,784,800

- Short Term Plan - Financed by Funds other than Water System Revenues

<i>Description of Improvement</i>	<i>Begin Design by:</i>	<i>Item Should be Operational by:</i>	<i>Estimated Cost</i>
-Add 12" main on Sioux Blvd to service northern area	2005	2006	\$ 240,000
-Stone Street (Sioux Blvd) Booster Station	2005	2006	\$ 140,000
-Sioux Boulevard Pressure Regulating Station	2005	2006	\$ 20,000
-Extend 12" water main to service to the City of Corson*	2005	2006	\$ 185,000
-Increase Holly Boulevard main to 12" diameter during proposed street construction	2005	2006	\$ 190,000
-Approx 2,000 ft new distribution mains*	2010	2011	\$ 240,000

Subtotal Short Term Improvements	\$ 1,015,000
Engineering and Contingency (20%)	\$ 203,000
Total Estimated Short Term Cost from Non-Water Funds	\$ 1,218,000

7.2. Long Term Plan

<i>Description of Improvement</i>	<i>Begin Design by:</i>	<i>Item Should be Operational by:</i>	<i>Estimated Cost</i>
-1.0 MG Elevated Tank in West	2012	2015	\$ 2,400,000
-Install 8" main along railroad right-of-way	2012	2015	\$ 120,000
-Add a 10" main from the east end of Aspen Boulevard to the south end of Kirkwood Boulevard	2012	2015	\$ 130,000
-8" water main from Nicholas Ave to Sioux Boulevard	2012	2015	\$ 80,400
-Western Area Pressure Regulating Station	2014	2015	\$ 26,000
-WTP-2 Expansion	2022	2025	\$ 3,200,000
-New Split Rock Well and pumphouse or rehab and connect Well No. 3 to WTP-2	2023	2025	\$ 250,000
- Approx 1,800 ft new raw water main	2024	2025	\$ 144,000
-1.0 MG Elevated Tank in East	2033	2035	\$ 2,400,000

Subtotal Long Term Improvements	\$ 8,750,400
Engineering and Contingency (20%)	\$ 1,750,100
Total Estimated Long Term Cost	\$ 10,500,500

8. Water Rates

8.1. Introduction

This water rate study utilized information and data obtained from the annual City financial reports, the comprehensive plans regarding land use and projected growth areas for the City from Stockwell Engineers, Inc. The Comprehensive water system plans were developed by TKDA working in conjunction with Stockwell Engineers and City staff members.

During the recent 10 year period, the City has added an average of 113 housing units each year and has grown from 4420 people in 1995 to approximately 7060 people in 2005. The annual growth rate was about 6% per year and we project that the City of Brandon will likely assume a more rapid growth rate and estimate that an average of 170 housing units will be added each year from the next 10 year period. The City of Corson has also requested water service from the City of Brandon. With the addition of Corson, we estimate that the water system will serve approximately 12,000 people by the year 2015.

Water Utility operations should be, and are generally expected to be self-supporting from the revenue received from providing service to the customers. In order to continue adequate water service for an expanding service area, a water system Capital Improvement Program has been developed. Water system infrastructure improvements which need to be constructed to serve the short and long term water demands for the City have been identified and itemized. These improvements include additional raw water supply wells, a new water treatment facility, additional water storage facilities and various water main extensions. To fund these capital improvements, water revenue must be increased through rate increases and increases in Water Availability Charges/connection charges.

8.2. Recent Water Utility Fund Performance

Review of data for the recent three years of water utility operations shows that the City had an average profit of \$183,200 from water operations when one removes the funds transfer in 2002. By including average debt services of \$200,253 for the same three year period, operating expenses and debt services exceed revenues by an average of approximately \$17,000 per year. See Table 13 for revenue and expense summaries for this three year period.

Table 13 - Revenue and Expenses 2002-2004, City of Brandon, SD

	2002	2003	2004
Sales			
Metered Sales	\$ 625,690	\$ 645,666	\$ 655,341
Connection Fees	\$ 21,405	\$ 28,941	\$ 31,974
New B.P. Connection Fee	<u>\$ 86,746</u>	<u>\$ 104,233</u>	<u>\$ 133,606</u>
Total Revenue	\$ 764,920	\$ 796,377	\$ 837,246
Expenses			
Supply	\$ 1,162	\$ 11,531	\$ 8,184
Treatment	\$ 51,315	\$ 47,593	\$ 34,226
Distribution	\$ 133,012	\$ 119,098	\$ 177,176
Power Utilities	\$ 13,923	\$ 13,025	\$ 18,202
Transfers Out	\$ 328,500	\$ 0	\$ 0
Administration	<u>\$ 695,647</u>	<u>\$ 406,269</u>	<u>\$ 447,066</u>
Total Expenses	\$ 895,060	\$ 597,515	\$ 684,854
Profit / Loss Operations	\$ (130,140)	\$ 198,862	\$ 152,392
Bond Principle	\$ 110,895	\$ 115,520	\$ 129,859
Bond Interest	\$ 89,033	\$ 84,896	\$ 70,558
Total Bond Payment	\$ 199,928	\$ 200,416	\$ 200,417
Profit / Loss After Debt	\$ (330,068)	\$ (1,554)	\$ (48,024)
Profit / Loss Without Transfer	\$ 1,568		

8.3. Water Rates

The City of Brandon has two components to the current water rate structure; a charge of \$21.00 per quarter for residential customers for the first 6,000 gallons per quarterly billing period and \$7.00 per month for commercial customers for the first 2,000 gallons per monthly billing period. Plus there is an additional consumption charge of \$2.60 per each 1,000 gallons for all water used above the minimum quarterly or monthly volume.

The City of Brandon has a peak water daily demand use which exceeds the average daily water use by at least 3 times. The City also has limited water supply resources available to serve the customers during peak demand periods. Therefore, the use of an increasing block water rate structure would encourage water conservation and decrease peak water demands on the system. This

would be most noticeable during the irrigation season. This type of rate structure charges a premium to customers for water used above the average monthly use of 6,000 gallons. We would encourage the City to implement an increasing block water rate structure in order to promote the wise use of water resources and minimize the peak water demands on the system.

8.4. Water Service Connection Fees

In 1997, the City of Brandon implemented an \$800 charge per residential connection for water service and higher charges for commercial accounts based upon their need for larger service connections. These water service connection fees help to fund water supply, treatment and storage facilities required to supply water to a growing community.

The water service connection fee should be increased to reflect current costs associated with water system improvements. Based upon the Engineering News Record (ENR) Index of costs for monthly construction, a charge of \$800 per residential connection in 1997 would now relate to a \$940 charge per connection in 2005.

We would encourage the City to increase the water service connection fee to a minimum of \$1,000 in 2006 and then index the fees to automatically increase each year based on the ENR construction cost index. For revenue projection in the report we have estimated \$1,100 for 2008 and \$1,200 for water service connection fees in 2010.

8.5. Impact Fees

The City also charges developers an impact fee of \$1,500 per acre for water service and \$1,500 per acre for sewer service in both the West Side and East Side Utility Projects. The impact fees are outlined in Resolutions #24-04 and #25-04 dated December 6, 2004. As both of these projects included considerable land area which may take several years to develop, we would encourage the City to automatically increase these impact fees each year. The fee can either be indexed using the ENR or the Consumer Price Index. While the City may be obligated to honor the existing \$3,000 total impact fee with current developers, the future developments should be based upon costs associated with construction at the time the development takes place.

Impact fees have not been included in the revenue projections of this report as these fees are generally used by the City to pay for over sizing of water and sewer lines required in the development areas.

8.6. Recommended Water Rates

In order for the City of Brandon to develop additional reserves prior to the construction of Water Treatment Plant No. 2 and the additional well supplies in 2011, we recommend that water rate increases be implemented in years 2006,

2008, and 2010. The recommended water rate schedules, increased water volumes, and increased connection fee revenue should provide the resources required to fund bonds needed for water system improvements. Residential and commercial accounts should have the same rate and will both be billed on a monthly basis.

- Recommended 2006 Water Rates

- Minimum monthly charge of \$7.00 for 0-2,000 gallons.
- Additional use charges of \$2.60 on each 1,000 gallons or fraction of for 2,001-6,000 gallons.
- \$3.10 per each 1,000 gallons or fraction of for all volumes over 6,000 gallons

- Recommended 2008 Water Rates

- Minimum monthly charge of \$8.00 for 0-2,000 gallons.
- Additional use charges of \$2.60 on each 1,000 gallons or fraction of for 2,001-6,000 gallons.
- \$3.10 per each 1,000 gallons or fraction of for all volumes over 6,000 gallons

- Recommended 2010 Water Rates

- Minimum monthly charge of \$8.00 for 0-2,000 gallons.
- Additional use charges of \$2.70 on each 1,000 gallons or fraction of for 2,001-6,000 gallons.
- \$3.20 per each 1,000 gallons or fraction of for all volumes over 6,000 gallons

We recommend that the above water rate schedules be implemented on January 1, 2006, 2008, and 2010. The City should review growth projections, water utility revenue, and water utility expenses in 2007 to allow for adjustment of rates as required.

8.7. Corson Water Supply and Recommended Rates

In order for the City of Brandon to supply water to the City of Corson, a new water supply main will need to be constructed along with a master meter station. It is recommended that the City of Brandon bill the City of Corson based upon volume of water delivered to the city. The City of Corson should be responsible for their existing water system and for the cost of new water supply mains and

meter stations. We estimate the construction cost of the water main and meter station to be approximately \$185,000.

The City of Corson should also pay the City of Brandon for water supply and water treatment capacity at the same rate as all other customers. The City of Corson has 27 existing water service accounts. Based upon the current \$800 connection fee, the payment for obtaining service capacity from Brandon should be \$21,600.

In order to ease the financial burden for Corson, we have incorporated the recovery of the service capacity payment into the recommended water rates for Corson. The recommended water rates are as follows:

- Recommended Corson 2006 Water Rates
 - Minimum monthly charge of \$283.50 for 0-54,000 gallons.
 - Additional use charges of \$3.90 on each 1,000 gallons or fraction of for 54,001-162,000 gallons.
 - \$4.40 per each 1,000 gallons or fraction of for all volumes over 162,000 gallons
- Recommended Corson 2008 Water Rates
 - Minimum monthly charge of \$324.00 for 0-54,000 gallons.
 - Additional use charges of \$3.90 on each 1,000 gallons or fraction of for 54,001-162,000 gallons.
 - \$4.40 per each 1,000 gallons or fraction of for all volumes over 162,000 gallons
- Recommended Corson 2010 Water Rates
 - Minimum monthly charge of \$324 for 0-54,000 gallons.
 - Additional use charges of \$4.05 on each 1,000 gallons or fraction of for 54,001-162,000 gallons.
 - \$4.80 per each 1,000 gallons or fraction of for all volumes over 162,000 gallons

It is our understanding that the City of Brandon will furnish the water operator and manpower required to operate the Corson water system. These costs are included and recovered from the above water rate schedules.

8.8. Water Fund Projections with Recommended Rate Schedules

Table No. 14 presents the 2006, 2008 and 2010 water fund projections. Revenue projections are based upon 170 additional housing units per year and were based upon the average daily water use for new customer accounts. The projected expenses included both a treatment cost adjustment based upon volume and an adjustment of 3% per year. We believe that the City will obtain some benefit from increased volume by utilizing the same amount of labor until the new water treatment plant is placed in service in 2011.

Table 14 - Projected Revenue and Expenses, City of Brandon, SD

	2006	2008	2010
Sales			
Brandon Metered Sales	\$ 847,983	\$ 988,537	\$1,122,684
Corson Metered Sales	<u>\$ 14,370</u>	<u>\$ 14,856</u>	<u>\$ 15,588</u>
Total System Metered Sales	\$ 862,353	\$ 1,003,393	\$ 1,138,272
Connection Fees	\$ 48,110	\$ 51,040	\$ 54,150
New B.P. Connection Fee	\$ 170,000	\$ 187,000	\$ 204,000
Total Brandon Revenue	\$ 1,066,093	\$1,226,577	\$1,380,834
Total System Revenue	\$ 1,080,463	\$1,241,433	\$1,396,422
Expenses			
Volume Increase, Treatment Cost	\$ 39,890	\$ 48,260	\$ 56,870
Other Expenses	\$ 690,250	\$ 732,280	\$ 776,880
Total Brandon Expenses	\$ 730,140	\$ 780,540	\$ 833,750
Total Corson Expenses	<u>\$ 8,370</u>	<u>\$ 8,880</u>	<u>\$ 9,421</u>
Total System Expenses	\$ 738,510	\$ 789,420	\$ 843,171
Brandon Profit / Loss Operations	\$ 335,953	\$ 446,037	\$ 547,084
Corson Profit / Loss Operations	<u>\$ 6,000</u>	<u>\$ 5,976</u>	<u>\$ 6,167</u>
System Profit / Loss Operations	\$ 341,953	\$ 452,013	\$ 553,251
System Current Bond Payment	\$ 200,416	\$ 200,416	\$ 200,416
System Profit / Loss After Debt	\$ 141,537	\$ 251,597	\$ 352,835

The estimated cost of water system improvements required and the schedule for the construction of these improvements are contained in other sections of this report. We estimate that by the end of the year 2010, the City should have approximately \$1,000,000 as water utility reserves and the ability to bond for the required improvements based upon future projected income.



Stockwell Engineers, Inc.

211 East 14th Street • Suite 200 • Sioux Falls, South Dakota 57104-6913
Telephone (605) 338-6668 • Fax (605) 338-8750

January 24, 2006

Mr. Eric Gronlund
Water Rights Program, DENR
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Re: Future Water Use Applications
Brandon, South Dakota
Project No. 0806

RECEIVED

JAN 27 2006

WATER RIGHTS
PROGRAM

Dear Eric:

It is our understanding that at the discretion of the board, an applicant may apply for water appropriations greater than two times the annual amount actually put to beneficial use. Therefore, we are requesting an exception to **Rule 74:02:01:24.01 "Future use applications and future use permits limited."** This will allow the City of Brandon the future rights for the amount needed as specified in the application. The justification for this request is validated in **Section 3.1 "Service Areas and Population Served"** in the report attached. Table 6 on Pg. 6 illustrates the Population Projection along with the increasing Average Day Water Use.

Please contact our office if you have questions or require additional information. The City of Brandon and Stockwell Engineers, Inc. greatly appreciates your consideration in this matter.

Respectfully Yours,

STOCKWELL ENGINEERS, INC.

Paul D. Sanow, E.I.T.

Cc: Dennis Olson, City Administrator, Brandon
File



Stockwell Engineers, Inc.

211 East 14th Street • Suite 200 • Sioux Falls, South Dakota 57104-6913
Telephone (605) 338-6668 • Fax (605) 338-8750

RECEIVED

FEB 15 2006

WATER RIGHTS
PROGRAM

February 13, 2006

Mr. Eric Gronlund
Water Rights Program, DENR
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Re: Future Water Use Applications
Brandon, South Dakota
Project No. 0806

Dear Eric:

As requested, included herewith, is a stamped map of the approximate location of the future wells. This along with the \$15 that was needed and sent by the City of Brandon should complete the application process.

Please contact our office if you have questions or require additional information. Again we appreciate your consideration in this matter.

Respectfully Yours,

STOCKWELL ENGINEERS, INC.

P.D.S.

Paul D. Sanow, E.I.T.

Cc: Dennis Olson, City Administrator, Brandon
File

**Water Rights Program - DENR
Conversation File Documentation**

NAME OF PERSON OR FILE: Paul Sanow, 6696-3 City of Brandon

ADDRESS: PO Box 95, Brandon, SD 57005 **COUNTY:** Minnehaha

DATE: March 1, 2006 **TELEPHONE:** (605) 338-6668

RE: Legal Description of Future Use Area

COMMENTS: While preparing the staff report for application number 6696-3, I noticed that the legal description had a possible error. The location listed on the application read SW ¼ Section 35-T102-R48W and NW ¼ Section 2-T101-R49W. The correct location should read SW ¼ Section 35-T102-R48W and NW ¼ Section 2-T101N-R48W. I contacted Mr. Paul Sanow of Stockwell Engineers, Inc. to confirm the correct location of the future use area. He confirmed that the location should in fact read SW ¼ Section 35-T102N-R48W and NW ¼ Section 2-T101N-R48W.

NAME: Aaron Tieman, Natural Resource Engineer

REPORT ON APPLICATION NO. 6696-3

For City of Brandon

March 7, 2006

Application No. 6696-3 proposes to appropriate and reserve for future use 1,227.70 acre-feet annually from the Big Sioux: South Aquifer. The area to be reserved by this application is located in the SW ¼ Section 35-T102N-R48W and the NW ¼ Section 2-T101N-R48W. The water is to be reserved for future water supplies for municipal use by the city of Brandon. This application does not authorize construction of works or application of water to beneficial use.

AQUIFER – BIG SIOUX: SOUTH (BS: S)

The Big Sioux: South Aquifer consists of mantled outwash (sand and gravels) under predominantly water table conditions in the area of this application. The aquifer underlies 17,200 acres and contains an estimated 20,640 acre-feet of recoverable water in Minnehaha County (Hedges, 1982). The aquifer is hydraulically connected to the Big Sioux River, the Big Sioux: Southern Skunk Creek Aquifer to the west and the Big Sioux: Sioux Falls Aquifer to the north. The estimated water use from the Big Sioux: South was found to be less than the estimated annual recharge to the aquifer.

The Water Rights Program monitors nine observation wells located within a five mile radius of this location. The hydrographs for these wells all show the same characteristics with water levels indicating response to climatic conditions; that is, rising water levels during wet periods (recharge) and gradually declining water levels during dry periods. The record indicates that the Big Sioux: South Aquifer is capable of sustaining additional withdrawals. A hydrograph for well MA-57J is included in this report and labeled as Figure 1. (Water Right, 2006).

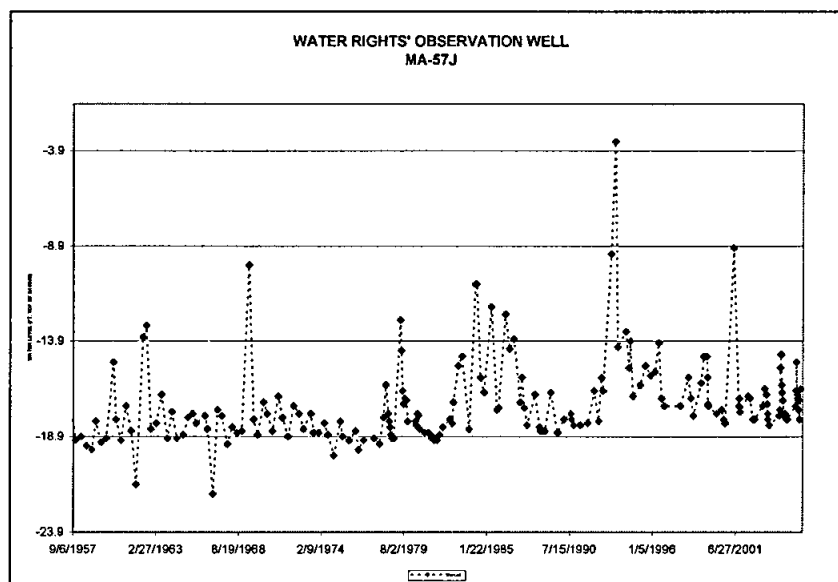


Figure 1. Hydrograph of observation well MA-57J.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are several existing Water Rights appropriating ground water within a five mile radius of this application. A list of the permits is included with this report labeled as Table 1. The nearest water right/permit from the Big Sioux South Aquifer is located approximately ½ mile north of this application. This well is for Water Right No. 1804-3 (1.22 cfs for municipal use). The aquifer is under water table conditions in this area, interference is not expected to be a problem. Additionally, there is a Future Use Permit located within the five mile radius. Future Use Permit No. 4002-3, City of Brandon, currently has 685 acre-feet in reserve.

Table 1. Table identifying water rights within a five mile radius of the application.

PERMIT NO	LAST NAME	AQUIFER	USE	CFS
2113-3	VALLEY SPRINGS	SRKC	MUN	0.33
4974A-3	PINELAKE HILLS HOMEOWNERS ASSN	SRKC	SHD	0.3
5213-3	SIOUX FALLS	SRKC	MUN	1.42
5463-3	CORSON VILLAGE SANITARY DISTRICT	SRKC	MUN	0.044
5507-3	BRANDON	SRKC	MUN	0.05
5596-3	NORTHERN STATES POWER COMPANY	SRKC	IND	1.11
5752-3	BRANDON WOOD PRESERVING	SRKC	COM	0.19
5842-3	COUGHLIN	BS: S	COM	0.02
5861-3	NORTHERN STATES POWER COMPANY	SRKC	IND	1.11
5865-3	ALLIED OIL & SUPPLY INC	SRKC	DOM	0.11
5868-3	BRANDON	SRKC	MUN	1.91
5869-3	BRANDON	BS: S	MUN	0.78
6156-3	BRANDON	SRKC	MUN	4.44
6393-3	BRANDON MATERIALS CO	BR	COM	0.22
6469-3	COUGHLIN	SRKC	COM	0.1
6618-3	WILLOW RUN GOLF LLC	SOUX	IRR	0.44

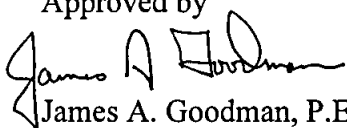
CONCLUSIONS

1. Water is available from the Big Sioux: South Aquifer.
2. The aquifer is under water table conditions. Interference should not be a concern.
3. Since this is a future use application, it will be necessary to file a permit to use the water reserved by this application before putting it to beneficial use.
4. The estimated water use from the Big Sioux: South was found to be less than the estimated annual recharge to the aquifer.



Aaron R. Tieman
Natural Resources Engineer

Approved by



James A. Goodman, P.E.
Natural Resources Engineering Director

BIBLIOGRAPHY

Hedges, L.S., 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD, 57069.

Water Right, 2006, Unpublished Observation Well Data for Big Sioux: South Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR FUTURE USE WATER PERMIT
APPLICATION NO. 6696-3, City of Brandon**

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 Future Use Water Permit Application No. 6696-3, City of Brandon, c/o Dennis E. Olson, PO Box 95, Brandon SD 57005.

The Chief Engineer is recommending APPROVAL of Application No. 6696-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) ~~the Fall River Water Users District~~ ^{Brandon} has demonstrated a reasonable need for the water reserved, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Permit No. 6696-3 reserves 1,227.7 acre feet of water annually from the Big Sioux:South Aquifer.
2. That Future Use Permit No. 6696-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. At such time as definite plans are made to construct works and put the water reserved by this permit to beneficial use, specific application for all or any part of the reserved water must be submitted and approved prior to construction of facilities pursuant to SDCL 46-5-38.1.

See report on application for additional information.

Garland Erbele, Chief Engineer
March 16, 2006

AFFIDAVIT OF PUBLICATION-

Customer Number: 078340
Invoice Number: 923171

Water Rights Program

Argus Leader
AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

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

Thursday, the 23 day of March 2006,
Thursday, the 30 day of March 2006,
_____, the _____ day of _____ 2006,
_____, the _____ day of _____ 2006,
_____, the _____ day of _____ 2006,
_____, the _____ day of _____ 2006,
_____, the _____ day of _____ 2006,

and that \$121.46 was charged for publishing the same

Betty Jones

Subscribed and sworn to before me 3/30/2006

JOAN STAHL



NOTARY PUBLIC
SOUTH DAKOTA



Joan Stahl

Notary Public, South Dakota

My Commission expires June 30, 2011

State Notices

NOTICE OF APPLICATION NOS. 6696-3 and 6697-3 to Appropriate and Reserve Water for Future Use

Notice is given that the City of Brandon, c/o Dennis E. Olson, PO Box 95, Brandon, SD 57005 has filed the following applications for future use water permit.

Application No. 6696-3 proposes to appropriate and reserve for future use 1,227.70 acre-feet annually from the Big Sioux-South Aquifer. Application No. 6697-3 proposes to appropriate and reserve for future use 2,148.40 acre-feet annually from the Spill Rock Creek Aquifer. The area to be reserved by both applications is located in the SW Section 35-T102N-R48W and the NW Section 2-T101N-R48W. This water is to be reserved for future water supplies for municipal use by the city. These applications does not authorize construction of works or application of water to beneficial use.

Pursuant to SDCL 46-2A-23, the Chief Engineer recommends APPROVAL of Application Nos. 6696-3 and 6697-3 because 1) unappropriated water is available, 2) the quantity of water reserved will be needed by the city of Brandon, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on these applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (805 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 10, 2006.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

923171 Mar. 23 & 20, 2006

Instruction to Newspaper - Publish first Notice on March 23, 2006 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 6696-3 and 6697-3 to Appropriate and Reserve Water for Future Use

Notice is given that the City of Brandon, c/o Dennis E Olson, PO Box 95, Brandon SD 57005 has filed the following applications for future use water permit.

Application No. 6696-3 proposes to appropriate and reserve for future use 1,227.70 acre-feet annually from the Big Sioux:South Aquifer. Application No. 6697-3 proposes to appropriate and reserve for future use 2,148.40 acre-feet annually from the Split Rock Creek Aquifer. The area to be reserved by both applications is located in the SW ¼ Section 35-T102N-R48W and the NW ¼ Section 2-T101N-R48W. The water is to be reserved for future water supplies for municipal use by the city. These applications does not authorize construction of works or application of water to beneficial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6696-3 and 6697-3 because 1) unappropriated water is available, 2) the quantity of water reserved will be needed by the city of Brandon, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

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www.state.sd.us/denr

March 16, 2006

Argus Leader
PO Box 5034
Sioux Falls SD 57117-5034

ATTENTION: Legal Public Notice

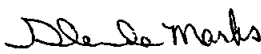
Enclosed is a Notice on Application No. 6696-3 & 6697-3 to Appropriate Water to be published twice. Please publish the first notice on March 23, 2006 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is City of Brandon, % Dennis E Olson, PO Box 95, Brandon SD (Ph # 605-582-6515).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, please send us an affidavit or use the enclosed Proof of Publication form. The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


for Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6696-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of March 16, 2006 enclosing Notice to Appropriate Water by Application No. 6696-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



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

March 16, 2006

City of Brandon
% Dennis Olson
PO Box 95
Brandon SD 57005

Dear Mr. Olson:

Water Permit Application Nos. 6696-3 & 6697-3 for municipal use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of 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 recommendations of the Chief Engineer and reports on the applications 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, the publisher has been instructed to publish your notice once each week for two consecutive weeks. 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 applications.

Sincerely,

for Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

c: Paul Sanow, Stockwell Engineers

NOTE: If you plan to contest any part of the Chief Engineer's recommendations, 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 applications.



**DEPARTMENT of ENVIRONMENT
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www.state.sd.us/denr

APR 27 2008

City of Brandon
Dennis E Olson
PO Box 95
Brandon SD 57005

Dear Mr. Olson:

Enclosed are Future Use Permit Nos. 6696-3 and 6697-3, as approved by the Water Management Board.

When plans for facilities are prepared to put any portion of the water granted in the future use permits to beneficial use, an application covering such facilities and water use should be submitted to this office before construction is initiated.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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denr.sd.gov

February 26, 2013

Bryan Read, City Administrator
City of Brandon
PO Box 95
Brandon SD 57005

Dear Mr. Read:

I am writing in regard to the seven year review of Future Use Water Permit No. 6696-3 from the Big Sioux:South Aquifer and Future Use Water Permit No. 6697-3 from the Split rock Creek Aquifer held by the City of Brandon. By law, all future use permits are to be reviewed by the Water Management Board every seven years to determine whether a reasonable need exists for the reserved water. The permit reserves water for future water supply needs for the city. Currently, our records show that 1227.7 acre-feet remain in reserve under Permit No. 6696-3 and 2148.4 acre-feet remain in reserve under Permit No. 6697-3. Both permit were issued in 2006.

Please respond in writing by March 15, 2013 regarding the city's intention for the future use permits. If the city plans to retain the permits, then the response should outline a reasonable need for retaining the future use permits, including an estimate of future needs and any annual pumping records for the past three years for the Big Sioux:South Aquifer. Based on a qualification of Permit No. 6156-3, the amount pumped from the Split Rock Creek Aquifer is required annually and that information has been received.

Permit Nos. 6696-3 and 6697-3 will then be public noticed at the city's expense and scheduled for review before the Water Management Board pursuant to SDCL 46-5-38.1. Notice will be given of the hearing time and place at a future date. The purpose of this review is to determine if a reasonable need exists for retaining the permits. A fee will be charged if the Board allows the permits to remain in effect after the hearing. The fee to be assessed will be dependent upon the amount of water allowed to remain in reserve. If the entire 1227.7 acre-feet remain in reserve on No. 6696-3, the fee will be \$165.00. If the entire 2148.4 acre-feet remain in reserve on No. 6697-3, the fee will be \$235.00.

Please contact Eric Gronlund, if you have any questions.

Sincerely,

Karen Schlaak

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

Schlaak, Karen

From: Schlaak, Karen
Sent: Wednesday, March 20, 2013 7:54 AM
To: 'bnelson@cityofbrandon.org'
Subject: FW: Atten: Karen Schlaak

Bryan,

The next Water Management Board meeting is scheduled for May 1st. It doesn't appear that your study will be done by that time. The following meeting will be July 10th. If the study is done by the end of the first week of June we should be able to meet the public notice deadlines. Let me know if that gives the city sufficient time.

Karen Schlaak

Water Rights Program
Phone: 605 773-3352
Fax: 605 773-4068

From: Duvall, Ron
Sent: Friday, March 15, 2013 4:18 PM
To: Schlaak, Karen
Cc: Gronlund, Eric; Smith, Kim
Subject: FW: Atten: Karen Schlaak

Karen, to your attention...

NOTE: When replying to this email do NOT click the person's [\[mailto:myname@email.com\]](mailto:myname@email.com) address since this may result in your reply being undeliverable. Either copy and paste just the email address (e.g. myname@email.com) or type just the address into your reply message.

From: Bonnie Nelson [<mailto:bnelson@cityofbrandon.org>]
Sent: Friday, March 15, 2013 4:23 PM
To: DENR INTERNET INFORMATION
Subject: Atten: Karen Schlaak

Karen:

I am Bryan Read, City Administrator in Brandon. I just noticed the letter you sent, dated February 26, 2013, regarding Future Use Water Permits No. 6696-3, 6697-3. Your letter was misplaced and I have not had time to get a written response back to you. The City of Brandon intends to retain the Future Use Permits. We have retained Stockwell Engineers to conduct a complete study of our water system, including water sources. The study is not yet complete. I respectfully ask for a reasonable extension to respond to your letter.

Bryan H. Read
City Administrator

bread@cityofbrandon.org
(605)582-6515



April 4, 2013

Karen Schlaak
SD DENR
Joe Foss Building
523 E Capitol
Pierre, SD 57501

Re: Future Water Use Permit
Brandon, SD

RECEIVED
APR - 8 2013
WATER RIGHTS
PROGRAM

Dear Ms. Schlaak:

This letter is in response to the seven year review of the Future Water Use Permit No. 6696-3 from the Big Sioux: South Aquifer and Permit No. 6697-3 from the Split Rock Creek Aquifer. Permit No. 6696-3 is for 1227.7 acre-feet and Permit No. 6697-3 is for 2148.4 acre-feet.

In recent years, the City of Brandon and the surrounding area has experienced rapid residential, commercial and industrial growth. We are currently working with the City on a Comprehensive Water System Plan. This plan will recommend that new wells be constructed to provide adequate well capacity for current and future water demands. The location and aquifer source of these wells has not been determined at this time. Historic pumping records and future needs are shown in the following tables.

Historic Usage

Year	Annual Usage (gal)
2010	27,091,000
2011	29,547,000
2012	36,267,000

Projected Usage

Year	Population Projection	Annual Usage (gal)
2017	10,734	407,462,640
2022	12,217	463,757,320
2027	13,700	520,052,000

The City of Brandon plans to retain these permits. Please call, if you have any questions or need additional information.

Sincerely,

STOCKWELL ENGINEERS, INC.

Gabriel Laber, P.E.
Project Engineer
glaber@stockwellengineers.com

cc: SEI Project File: 01_0513 / Correspondence

SIoux FALLS
600 N. Main Ave. #100
Sioux Falls, SD 57104
(605) 338-6668



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**RECOMMENDATION OF CHIEF ENGINEER FOR FUTURE USE WATER PERMIT
NO. 6696-3, City of Brandon SD**

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 Future Use Water Permit No. 6696-3, City of Brandon, PO Box 95, Brandon SD 57005.

The Chief Engineer is recommending that Future Use Permit No. 6696-3 REMAIN in EFFECT for 1,227.7 acre-feet annually because 1) there is reasonable probability that there may be development of the water reserved under Permit No. 6696-3, 2) the city has demonstrated a reasonable need for the water reserved by Permit No. 6696-3, 3) the proposed use will be a beneficial use and 4) it is in the public interest.

Maintaining the effectiveness of Future Use Permit No. 6696-3 is subject to payment of the \$165.00 fee pursuant to SDCL 46-2-13(2) within 60 days of notice to the city after the Board hearing.

Jeanne Goodman, Chief Engineer
June 12, 2013



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denr.sd.gov

June 12, 2013

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

Bryan Read, City Administrator
City of Brandon
PO Box 95
Brandon SD 57005

Dear Mr. Read:

Future Use Permit Nos. 6696-3 and 6697-3 will be reviewed for progress in the development and future plans for use of the water reserved. Water rights law requires publication of a notice in the county where water will be diverted or used. The notice of this review has been sent to the Publisher of the Argus Leader, Sioux Falls SD (605 331-2200). For your information, a copy of the Chief Engineer's recommendation is enclosed. Please review this notice prior to publication and notify this office, if you have any corrections or questions.

**BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE
PUBLICATION OF THE NOTICE OF HEARING AND TO ARRANGE FOR PAYMENT.** Early contact with the paper can eliminate delays. The publisher has been instructed to publish this notice on June 19, 2013. We must receive Proof of Publication before the future use review can be considered by the Water Management Board.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

June 12, 2013

Argus Leader
PO Box 5034
Sioux Falls SD 57117

Dear Sir:

Enclosed is a Notice of Hearing to Review Future Use Water Permit Nos. 6696-3 and 6697-3 to be published on June 19, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at 605 773-3352 or email karen.schlaak@state.sd.us

The applicant must verify to you that the notice is to be published. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is the City of Brandon, c/o Bryan Read, City Administrator, PO Box 95, Brandon SD 57005 (605 582-6515).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

Instruction to Newspaper-Publish the following Notice on June 19, 2013. The City of Brandon is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6696-3 and 6697-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6696-3 and 6697-35643-3 held by the City of Brandon, c/o Bryan Read, City Administrator, PO Box 95, Brandon SD 57005 for progress made in the development of the water reserved by the permits and future plans for development of the water reserved.

Permit No. 6696-3 was approved in 2006 and currently reserves 1,227.70 acre-feet annually from the Big Sioux:South Aquifer. Permit No. 6697-3 was approved in 2006 and currently reserves 2,148.40 acre-feet annually from the Split Rock Creek Aquifer. The area of future use is located in the SW 1/4 Section 35-T102N-R48W and the NW 1/4 Section 2-T101N-R48W. The water is reserved for municipal use.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6696-3 and 6697-3 REMAIN in EFFECT for 1,227.70 acre-feet annually and 2,148.40 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6696-3 and 6697-3 at 10:00 am July 11, 2013 at Floyd Mathew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by July 1, 2013. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holders mailing address is given above. The petition may be informal, but it must include a statement describing the petitioners interest in the future use permits, the reasons for petitioner's opposition to or support of continuing the future use permits, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

The hearing to review Future Use Permit Nos. 6696-3 and 6697-3 will be conducted pursuant to the provisions of SDCL 46-1-14, 46-2-5, 46-2-9, 46-2-11, 46-5-38.1; Board Rules ARSD 74:02:01:25.01 thru 74:02:01:25.03 and contested case procedures contained in SDCL 1-26.

This hearing is an adversary proceeding. The permit owner or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on the permits, to assure access to the hearing by the handicapped or obtain an interpreter for the hearing impaired may contact Eric Gronlund, Water Rights Program, (605 773-3352) by July 1, 2013. The time of the hearing will be automatically delayed for at least 20 days upon written request of the permit owner or any person who has filed a petition to oppose or support continuance of the Future Use Permits. The request for a delay must be filed with the Chief Engineer by July 1, 2013. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of _____.

CUSTOMER NUMBER:	127014	Argus Leader P.O. Box 677349, Dallas, TX 75267-7349	
AD ORDER NUMBER:	1418231		
	6/19, 2013		\$101.37

City of Brandon
% Bryan Read
PO Box 85
Brandon, SD 57005

RECEIVED
JUN 20 2013
WATER RIGHTS PROGRAM

AFFIDAVIT OF PUBLICATION-

Customer Number: 127014
Invoice Number: 1418231

Argus Leader
AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

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

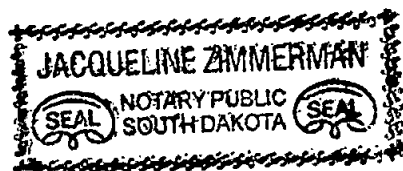
Wednesday the 19 day of June 2013 ,
the day of 2013 ,
the day of 2013 ,
the day of 2013 ,
the day of 2013 ,
the day of 2013 ,
the day of 2013 ,

and that \$101.37 was charged for publishing the same

Linda Schulte
Subscribed and sworn to before me 6/19/2013

J. Zimmerman
Notary Public, South Dakota

My Commission expires December 22, 2015



NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6696-3 and 6697-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6696-3 and 6697-35643-3 held by the City of Brandon, c/o Bryan Read, City Administrator, PO Box 85, Brandon SD 57005 for progress made in the development of the water reserved by the permits and future plans for development of the water reserved.

Permit No. 6696-3 was approved in 2006 and currently reserves 1,227.70 acre-feet annually from the Big Sioux South Aquifer. Permit No. 6697-3 was approved in 2006 and currently reserves 2,148.40 acre-feet annually from the Split Rock Creek Aquifer. The area of future use is located in the SW 1/4 Section 35-T102N-R48W and the NW 1/4 Section 2-T101N-R48W. The water is reserved for municipal use.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6696-3 and 6697-3 REMAIN in EFFECT for 1,227.70 acre-feet annually and 2,148.40 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6696-3 and 6697-3 at 10:00 am July 11, 2013 at Floyd Mathew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD.

Rules ARSD 74:02:01:25.01 thru 74:02:01:25.03 and contested case procedures contained in SDCL 1-26.

This hearing is an adversary proceeding. The permit owner or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on the permits, to assure access to the hearing by the handicapped or obtain an interpreter for the hearing impaired may contact Eric Gronlund, Water Rights Program, (605) 773-3352 by July 1, 2013. The time of the hearing will be automatically delayed for at least 20 days upon written request of the permit owner or any person who has filed a petition to oppose or support continuance of the Future Use Permits. The request for a delay must be filed with the Chief Engineer by July 1, 2013. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of \$101.37.
1418231 June 19, 2013

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by July 1, 2013. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holders mailing address is given above. The petition may be informal, but it must include a statement describing the petitioner's interest in the future use permits, the reasons for petitioner's opposition to or support of continuing the future use permits, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

The hearing to review Future Use Permit Nos. 6696-3 and 6697-3 will be conducted pursuant to the provisions of SDCL 46-1-14, 46-2-5, 46-2-9, 46-2-11, 46-5-38.1; Board



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

July 15, 2013

NOTICE

Bryan Read, City Administrator
City of Brandon
PO Box 95
Brandon SD 57005

Dear Mr. Read:

I am writing in response to action taken by the Water Management Board at the hearing on July 11, 2013 to review Future Use Permit Nos. 6696-3 and 6697-3. The Board allowed the permits to remain in effect for 1,227.7 and 2,148.4 acre-feet of water annually. The Future Use Permits are subject to another review in seven years.

The fee for maintaining the effectiveness of Future Use Permit No. 6696-3 is \$165.00 and for No. 6697-3 is \$235.00 pursuant to SDCL 46-2-13(2). Please remit a total fee of \$400.00 within 60 days.

Please contact Eric Gronlund, staff engineer, if you have any questions.

Sincerely,

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

CERTIFICATION

I hereby certify that on July 15, 2013, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelope(s) containing a Notice dated July 15, 2013 regarding Future Use permits addressed as stated below:

Joint Wellfield, 47602 SD Hwy 28, Toronto SD 57268 **Water Right No's. 3982-3 & 3982A-3**

Kingbrook RWS, PO Box 299, Arlington SD 57212 **Water Right No. 5643-3**

City of Brandon, PO Box 95, Brandon SD 57005 **Water Right No's. 6696-3 & 6697-3**

TM RWD, PO Box 445, Parker SD 57053 **Water Right No. 6705-3**



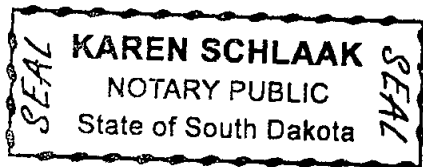
Gail Jacobson
Secretary/Water Rights

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 15th day of July, 20 13.



Karen Schlaak
Notary Public
My Commission expires April 1, 2019



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/8, 2013

RECEIVED OF City of Brandon PO Box 95 Brandon SD 57005

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	165	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. <u>6696-3</u> after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
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. _____	165	00
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	165 00

No. **06400**

By Joanne Goodman
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

December 4, 2019

Bryan Read, City Administrator
City of Brandon
PO Box 95
Brandon SD 57005

Dear Mr. Read:

I am writing in regard to the seven year review of Future Use Water Permit No. 6696-3 from the Big Sioux:South Aquifer and Future Use Water Permit No. 6697-3 from the Split Rock Creek Aquifer held by the City of Brandon. By law, all future use permits are to be reviewed by the Water Management Board every seven years to determine whether a reasonable need exists for the reserved water. The permits reserves water for future water supply needs for the city.

Currently, our records show that 1227.7 acre-feet remain in reserve under Permit No. 6696-3 and 697.4 acre-feet remain in reserve under Permit No. 6697-3. Both permits were issued in 2006 and last reviewed in 2013.

Please respond in writing by January 6, 2020 regarding the city's intention for the future use permits. If the city plans to retain the permits, then the response should outline a reasonable need for retaining the future use permits, including an estimate of future needs.

Permit Nos. 6696-3 and 6697-3 will then be public noticed at the city's expense and scheduled for review before the Water Management Board pursuant to SDCL 46-5-38.1. Notice will be given of the hearing time and place at a future date. The purpose of this review is to determine if a reasonable need exists for retaining the permits. A fee will be charged if the Board allows the permits to remain in effect after the hearing. The fee to be assessed will be dependent upon the amount of water allowed to remain in reserve. If the entire 1227.7 acre-feet remain in reserve on No. 6696-3, the fee will be \$165.00. If the entire 697.4 acre-feet remain in reserve on No. 6697-3, the fee will be \$115.00.

Please contact Eric Gronlund, if you have any questions.

Sincerely,

Karen Schlaak

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

January 3, 2020

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

RECEIVED

JAN 06 2020

WATER RIGHTS
PROGRAM

Re: Review of Future Use Water Permit Nos. 6696-3 and 6697-3

Ms. Schlaak:

Your letter of December 4, 2019 requested a written response regarding the City of Brandon's Future Use Permit Nos. 6696-3 and 6697-3.

In 2019, the City completed the City of Brandon Water Supply Evaluation that projected Brandon's population to increase by 60% of its current population in the next 25 years, and to more than double its current population in the next 50 years. This population growth is expected to exert a proportionately increased water demand, with an accompanying increased peak day water production, as summarized in the table below.

Year	Population	Average Day Production, MGD	Annual Production, Acre-Ft	Max Day Production, MGD	Maximum Day Production, cfs
2018	9,957	0.96	1,115	2.49	3.85
2045	16,000	1.52	1,703	3.80	5.88
2070	23,000	2.07	2,319	5.18	8.00

The City of Brandon Water Supply Evaluation included alternatives for additional wells that would obtain water from the Big Sioux:South Aquifer and the Split Rock Creek Aquifer. These wells will likely consume water held in reserve by the existing future water use permits.

To provide water for anticipated future needs, the City of Brandon requests that the reserved water capacity of 1227.7 acre feet under permit 6696-3 (in the Big Sioux:South Aquifer) and 697.4 under Permit 6697.3 (in the Split Rock Creek Aquifer) be retained by the City of Brandon.

Sincerely,



Bryan Read, City Administrator
City of Brandon



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 FUTURE USE WATER PERMIT
NO. 6696-3, City of Brandon SD

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 Future Use Water Permit No. 6696-3, City of Brandon, PO Box 95, Brandon SD 57005.

The Chief Engineer is recommending that Future Use Permit No. 6696-3 REMAIN in EFFECT for 1227.7 acre-feet annually because 1) there is reasonable probability that there may be development of the water reserved under Permit No. 6696-3, 2) the city has demonstrated a reasonable need for the water reserved by Permit No. 6696-3, 3) the proposed use will be a beneficial use and 4) it is in the public interest.

Maintaining the effectiveness of Future Use Permit No. 6696-3 is subject to payment of the \$165.00 fee pursuant to SDCL 46-2-13(2) within 60 days of notice to the city after the Board hearing.

Jeanne Goodman, Chief Engineer
January 7, 2020

Argus Leader

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

Account No.: SFA-127014

Ad No.: 0003989612

PO #: 6696-3 & 6697-3

Lines : 167

Ad Total \$104.59

This is not an invoice

BRANDON, CITY OF
304 S MAIN AVE
BRANDON, SD 57005

of Affidavits: 1

Account No.: SFA-127014

Ad No.: 0003989612

Argus Leader AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

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

Wednesday, January 15, 2020

Sworn to and subscribed before me this 23 day of January, 2020.

Legal Clerk

Nancy Heyrman
Notary Public, State of Wisconsin, County of Brown

5-15-23
My Commission expires

NANCY HEYRMAN
Notary Public
State of Wisconsin



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 7, 2020

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

City of Brandon
Bryan Read, City Administrator
PO Box 95
Brandon SD 57005

Dear Mr. Read:

Future Use Permit Nos. 6696-3 and 6697-3 will be reviewed for progress in the development and future plans for use of the water reserved. Water rights law requires publication of a notice in the county where water will be diverted or used. Notice of this review has been sent to the Argus Leader (605 311-2200). For your information, copies of the Chief Engineer's recommendations are enclosed. Please review this notice prior to publication and notify this office, if you have any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION OF THE NOTICE OF HEARING AND TO ARRANGE FOR PAYMENT. Early contact with the paper can eliminate delays. The publisher has been instructed to publish this notice on January 15, 2020. We must receive Proof of Publication before the future use reviews can be considered by the Water Management Board.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

Instruction to Newspaper - Publish the following Notice on January 15, 2020. The City of Brandon is responsible for payment.

NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6696-3 and 6697-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6696-3 and 6697-3 held by the City of Brandon, c/o Bryan Read, City Administrator, PO Box 95, Brandon SD 57005 for progress made in the development of the water reserved by the permits and future plans for development of the water reserved.

Permit No. 6696-3 was approved in 2006 and currently reserves 1,227.7 acre-feet annually from the Big Sioux:South Aquifer. Permit No. 6697-3 was approved in 2006 and currently reserves 697.4 acre-feet annually from the Split Rock Creek Aquifer. The area of future use is located in the SW 1/4 Section 35-T102N-R48W and the NW 1/4 Section 2-T101N-R48W. The water is reserved for municipal use.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6696-3 and 6697-3 REMAIN in EFFECT for 1,227.7 acre-feet annually and 697.4 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6696-3 and 6697-3 at 10:00 am, February 26, 2020, Floyd Matthew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing.

Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by February 14, 2020. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holder's mailing address is given above. The petition may be informal, but it must include a statement describing the petitioner's interest in the future use permits, the reasons for petitioner's opposition to or support of continuing the future use permits, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

The hearing to review Future Use Permit Nos. 6696-3 and 6697-3 will be conducted pursuant to the provisions of SDCL 46-1-14, 46-2-5, 46-2-9, 46-2-11, 46-5-38.1; Board Rules ARSD 74:02:01:25.01 thru 74:02:01:25.03 and contested case procedures contained in SDCL 1-26.

This hearing is an adversary proceeding. The permit owner or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendations, further information on the permits, to assure access to the hearing by the handicapped or obtain an interpreter for the hearing impaired may contact Eric Gronlund, Water Rights Program, (605 773-3352) by February 14, 2020. The time of the hearing will be automatically delayed for at least 20 days upon written request of the permit owner or any person who has filed a petition to oppose or support continuance of the Future Use Permits. The request for a delay must be filed with the Chief Engineer by February 14, 2020.

According to SDCL 1-26-18.3, parties to a contested case may use the Office of Hearing Examiners to conduct a hearing if either a property right is being terminated or the dollar amount in controversy exceeds \$2,500.00. If any party chooses to use the Office of Hearing Examiners rather than the hearing procedure described above, then you need to notify the Chief Engineer (Water Rights Program 523 E Capitol Ave, Pierre SD) by January 27, 2020. Published once at the approximate cost of _____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 27, 2020

NOTICE OF ENTRY OF ORDER

Bryan Read, City Administrator
City of Brandon
PO Box 95
Brandon SD 57005

Dear Mr. Read:

I am writing in response to action taken by the Water Management Board at the hearing on February 26, 2020 to review Future Use Permit Nos. 6696-3 and 6697-3. The Board allowed the permits to remain in effect for 1227.7 acre-feet and 697.4 acre-feet of water annually. Future Use Permit Nos. 6696-3 and 6697-3 are subject to another review in seven years.

The fee for maintaining the effectiveness of Future Use Permit No. 6696-3 is \$165.00 and Future Use Permit No. 6697-3 is \$115.00 pursuant to SDCL 46-2-13(2). Please remit a total of \$280.00 within 60 days.

Please contact Eric Gronlund, staff engineer, if you have any questions.

Sincerely,

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

CERTIFICATION

I hereby certify that on February 27, 2020, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelope(s) containing a Notice dated February 13, 2020, regarding Notice of Entry of Order of Permit No. 3428-3, 5522-3, 5523-3, 6696-3, and 6697-3 addressed as stated below:

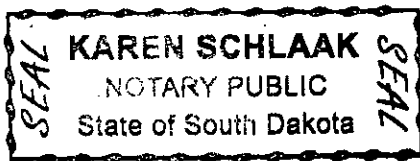
City of Aberdeen, Robert Braun, Water Superintendent, 123 S Lincoln St., Aberdeen SD 57401
City of Sioux Falls, Gavin Graverson, Superintendent, Water Division, 2100 N Minnesota Ave.,
Sioux Falls SD 57104
Bryan Read, City Administrator, City of Brandon, PO Box 95, Brandon SD 57005

Eric Gronlund
Eric Gronlund
Water Rights

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 27th day of February, 2020.

Karen Schlaak
Karen Schlaak
Notary Public
My Commission expires April 1, 2025



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date March 30, 2020

RECEIVED OF Bryan Reed, City Administrator-Brandon PO Box 95 Brandon SD 57005

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	\$
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$
Fee to retain Future Use Permit No. <u>6696-3</u> after period of seven years.	\$165.00
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	\$
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	\$165.00

By Eric Gronlund
Chief Engineer

vm