

WATER PERMIT NO. 6862-3

Name of Applicant: City of Salem

Address: PO Box 249, Salem SD

Phone: 605 425-2301

Amount of Water Claimed: 0.67 cfs

Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: municipal

County: McCook

Type of Waste Disposal System:

Location: within city limits

PRIORITY

Date Received: 6-7-07

Application/License Fee: \$325

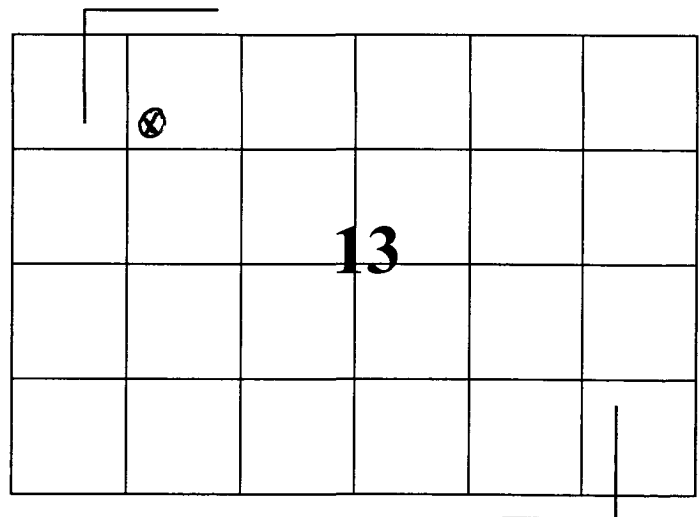
Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: NW ¼ NW ¼ Sec 13-T103N-
R55W

Land to be Irrigated: NA



Depth of Well: 226 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Camden Hofer, PE

Reviewed and the Number Assigned on: 6-7-07

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6862-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Salem Special PO Box 220</u>
	<u>605-425-2361</u> <u>Salem 57078</u>

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JUN - 7 2007
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.)

1. Name of Applicant City of Salem Phone (605) 425-2301
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address PO Box 249 Salem State SD 57058
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.67 *CFS or 300 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply Groundwater
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County McCook
1 well in NW 1/4 Section 13, T103N, R55W (NW 1/4 NW 1/4)
5. County or counties where water will be used McCook
6. Annual period during which water is to be used 365 days Jan 1 to Dec 31
7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

City of Salem will add a third well to their water system.

STATE OF SOUTH DAKOTA)
County of McCook 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, Robin Rayman Mayor, 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 Robin Rayman

Subscribed and sworn to before me this 4th day of JUNE 20 07

Don Neumiller
Notary Public signature
Notary - My Commission Expires: 7/20/2011

**SOUTH DAKOTA
WATER PERMIT NO. 6862-3**

Date of first receipt of application June 7, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6862-3 to the City of Salem, PO Box 249, Salem SD 57058 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6862-3 appropriates 0.67 cubic feet of water per second from one well to be completed into the Sioux Quartzite Wash (approximately 226 feet deep) located in NW ¼ NW ¼ Section 13-T103N-R55W.
2. The water appropriated shall be used for the purpose of municipal use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6862-3 is September 10, 2007.
5. The date from which applicant may claim right is June 7, 2007.
6. One-fifth of the construction is to be completed on or before March 10, 2010.
7. All construction is to be completed on or before September 10, 2012.
8. Water is to be put to beneficial use on or before September 10, 2016.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6862-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. The city of Salem shall report to the Chief Engineer annually the amount of water withdrawn from the Sioux Quartzite Wash.

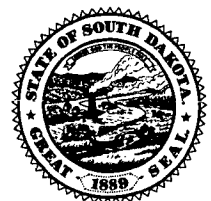
WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

OCT 19 2007

date



Supplemental Information

(type or print in ink)

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1. Well Information - Proposed Construction

- a) Drill Hole Diameter 18" Depth 226'
- b) Casing Type Steel Diameter 12" Thickness 0.375"
- c) Screen Type Stainless Steel Diameter 8" Thickness 0.3125"
- d) Gravel Pack 2" Length of Gravel Pack 15'
- e) Depth to Top of Water Bearing Material 226'
- f) Depth to Water (ground surface to water level) 97'
- g) Distance to nearest existing domestic well:
- On applicants property NA On property owned by others 3300'

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

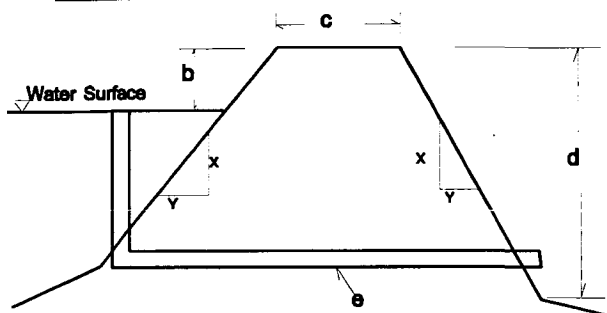
3. Dugout Information

- 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



1 inch equals 1,000 feet

Section 11 103 N 55 W

Section 12 103 N 55 W

RICHARD AVE

252 ST

GREEN DR

FRANKLIN AVE

JEFFERSON AVE

LINCOLN AVE

HILL ST

WASHINGTON AVE

PECK ST

DOUGLAS ST

ADAMS ST

IDAHO ST

ESSEX AVE

DAKOTA ST

PIERCE ST

BROWN ST

VERMONT AVE

US HWY 81

NORTON AVE

Section 14 103 N 55 W

Section 13 103 N 55 W

MAIN ST

MINNESOTA ST

DRAKE AVE

LIGHTNER AVE

SABERS AVE

CENTER AVE

CENTER AVE

DOUGLAS ST

HOLLISTER AVE

BAYRD ST

WYNE ST

BROWN AVE

BEEBE AVE

442 AVE

Section 23 103 N 55 W

SD HWY 38

By: _____

Date: _____



Section 24 103 N 55 W

Legend



Existing Well



Proposed Well

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 6/7/, 20 07

RECEIVED OF City of Salem PO Box 249 Salem SD 57058

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

Fee for Application for Permit No. <u>6862-3</u> to Appropriate Water, to construct and to put water to beneficial use	275	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6862-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)		
TOTAL	325	00

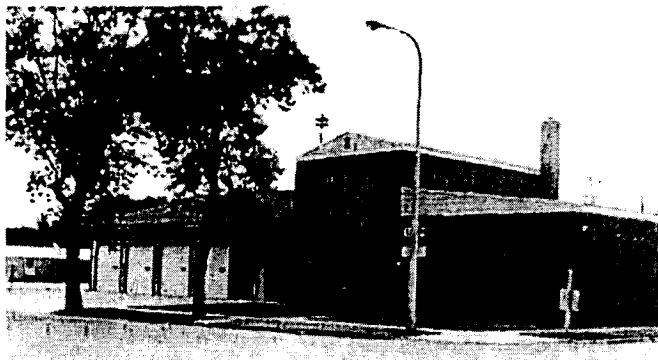
No.

03065

By Samuel Erbe
Chief Engineer

City of SALEM

P.O. Box 249
Salem, South Dakota 57058
Phone (605) 425-2301
FAX (605) 425-3194
salemsd.com



Mayor Robin Rayman

June 5, 2007

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JUN - 7 2007
WATER RIGHTS
PROGRAM

Water Rights Program, DENR
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

RE: City of Salem Water Permit Application

Enclosed are two signed forms, maps and fee for the Water Permit.

If you have any questions, please give me a call.

Sincerely,

Lori Heumiller
Finance Officer
City of Salem



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 WATER PERMIT
APPLICATION NO. 6862-3, City of Salem**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6862-3, City of Salem, c/o Mayor Robin Rayman, PO Box 249, Salem SD 57058.

The Chief Engineer is recommending APPROVAL of Application No. 6862-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6862-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. The city of Salem shall report to the Chief Engineer annually the amount of water withdrawn from the Sioux Quartzite Wash.

See report on application for additional information.

Garland Erbele, Chief Engineer
August 16, 2007

REPORT ON WATER PERMIT NO. 6862-3
For the City of Salem
August 2, 2007

Application No. 6862-3 proposes to appropriate 0.67 cfs (300 gpm) from one well to be completed to a depth of approximately 226 feet deep and located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of section 13, T103N R55W in McCook County. The water is for municipal use.

AQUIFER – SIOUX QUARTZITE WASH (SXWS)

The Sioux Quartzite wash aquifer is buried sand that was derived from the Sioux Quartzite. The aquifer is under artesian conditions at this site. The aquifer appears to be overlain by outwash (sand and gravel) and possibly the Niobrara aquifer in this immediate area. No estimate for water available in storage is available for this aquifer. McCook County has never been studied by the SDGS and USGS looking at the geology and potential ground water supplies. All the counties surrounding McCook County have been studied and those studies have been published.

A production well for the City of Salem is the best source of information available for this area. The well completed by LTP Enterprises indicates a pumping level of around 165 feet below land surface (about 58 feet of drawdown) pumping at a rate of about 150 gpm. This test was done in the winter of 1994 and was affected by the pumping of the other nearby city well. That driller's log indicates that the wash is overlain by both the chalk and also an outwash that is approximately 15 feet thick. In all likelihood water in these formations is interconnected at this site.

The Water Rights Program does not monitor any observation wells completed into this aquifer in this area. Very little historical information is available concerning water levels for this area.

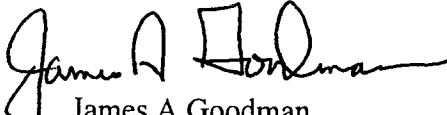
REVIEW OF EXISTING WATER PERMITS/RIGHTS

The city of Salem has an existing Water Right No. 996-3 for two wells and 1.0 cfs diversion rate. These wells will all be located within 500 feet of one another. Interference does occur and this is shown by the testing done by LTP Drilling for the newest completed city well. This also apparently does not adversely affect the water supply from the aquifer.

CONCLUSIONS

1. Water is available from the Quartzite Wash aquifer.
2. The aquifer is under artesian conditions at this site. Drawdown will be created by pumping. This has been shown and evaluated during testing for existing city wells. The drawdown created by pumping has not adversely affected the water supply from the aquifer.

3. This well must be constructed in accordance with SD Well Construction Standards.
4. The permit authorizes the applicant to construct a well into the Sioux Quartzite wash or the Sioux Quartzite.
5. This request is for 300 gpm. It appears from data for the existing wells this rate may not be possible for the long term. The rate can be evaluated by the City at the time of well completion.



James A Goodman
Natural Resources Engineer

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SEP 10 2007

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of McCook) SS

I, Troy Schwans

certify that the attached printed Notice was
taken

from the Salem Special

printed and published in Salem

County of McCook and

state of South Dakota. The notice was
published

in the newspaper on the following two dates:

8/23/07

8/30/07

Cost of Printing \$42.84

Troy Schwans
(Signature)

Owner
(Title)

9/6/07
(Date Signed)

Public Notice

NOTICE OF APPLICATION
NO. 6862-3

to Appropriate Water

Notice is given that the City of Salem, Robin Rayman, mayor, PO Box 249, Salem SD 57058 has filed an application for a water permit to appropriate 0.67 cubic feet of water per second from one well to be completed into the Sioux Quartzite Wash (approximately 226 feet deep) located in NW 1/4 NW 1/4 Section 13-T103N-R55W. The water is for municipal use.

Pursuant SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6862-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is beneficial use of water, and 4) it is in the public interest.

~~In accordance with SDCL 46-2A-23,~~
the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or 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 recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 10, 2007.

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

8/23/07c



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 16, 2007

Salem Special
PO Box 220
Salem SD 57058

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6862-3 to Appropriate Water to be published twice. Please publish the first notice on August 23, 2007 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 Salem, PO Box 249, Salem SD 57058 (Ph # 605-425-2301).

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,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 6862-3

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

Date _____

We are in receipt of your letter of August 16, 2007 enclosing Notice to Appropriate Water by Application No. 6862-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

August 16, 2007

City of Salem
Robin Rayman, Mayor
PO Box 249
Salem SD 57058

Dear Mayor Rayman:

Water Permit Application No. 6862-3 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 Salem Special printed at Salem SD (Ph # 605-425-2361). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application is 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,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish first Notice on August 23, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6862-3 to Appropriate Water

Notice is given that the City of Salem, Robin Rayman, Mayor, PO Box 249, Salem SD 57058 has filed an application for a water permit to appropriate 0.67 cubic feet of water per second from one well to be completed into the Sioux Quartzite Wash (approximately 226 feet deep) located in NW ¼ NW ¼ Section 13-T103N-R55W. The water is for municipal use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6862-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or 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 recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 10, 2007.

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



OCT 1 9 2007

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

City of Salem
PO Box 249
Salem SD 57058

Dear Sirs:

Enclosed is Water Permit No. 6862-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

07-92

Date: 11-18-08

Permit No. 6862-3
Vermillion River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **November 9, 2010**, made a thorough examination of the water use system constructed by **City of Salem** of **PO Box 249, Salem SD 57058** holder of Permit No. **6862-3**, bearing the priority of **June 7, 2007** authorizing the diversion of **0.67** cu. ft. per second of the waters of **Sioux Quartzite Wash** for **municipal** purposes, in **McCook** County.

Inspection contact & relationship to permit holder, if applicable: **William Selland – Water Superintendent (605)425-2301**

A. Works used to divert the water:

Well Information: Well #3 under 6862-3 Well Drilling Firm: <u>LTP</u> Depth(s) <u>223</u> feet Well log is available <u>yes</u> Comment: Completed 6-19-08 Casing: Diameter <u>12</u> inches Length <u>214</u> feet Type <u>steel</u> Screen: Type <u>stainless steel</u> Length <u>10</u> feet Static water level <u>102.6</u> feet Pump: Make <u>Grundfos</u> Model <u>300S250-6</u> Size Capacity <u>300</u> GPM Motor: <u>Grundfos</u> Make Model No. Horsepower rating <u>25</u> hp	Well Information: replace well #2 under 996-3 Well Drilling Firm: <u>Huron Drilling Inc.</u> Depth(s) <u>226</u> feet Well log is available <u>yes</u> Comment: Completed 8-24-00 Casing: Diameter <u>10</u> inches Length <u>207</u> feet Type <u>pvc</u> Screen: Type <u>stainless steel</u> Length <u>8</u> feet Static water level <u>101</u> feet Pump: Make <u>Grundfos</u> Model <u>B8949W02</u> Size Capacity <u>300</u> GPM Motor: Make <u>Grundfos</u> Model No. Horsepower rating <u>20</u>	Well Information: Well #1 under 996-3 Well Drilling Firm: Depth(s) <u>210</u> feet Well log is available <u>no</u> Comment: Completed Jan. 1961 Casing: Diameter <u>12</u> inches Length <u>186</u> feet Type <u>pvc</u> Screen: Type <u>stainless steel</u> Length <u>8</u> feet Static water level <u>97</u> feet Pump: Make <u>Grundfos</u> Model <u>230S200-5</u> Size Capacity <u>250</u> GPM Motor: Make <u>Grundfos</u> Model No. Horsepower rating <u>20</u>
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B. Works used to transport water to place of use:

- 1) Type pvc 2) Size 6 inches 3) Length 430 feet

C. Works used to apply water to beneficial use:

Water treatment plant for the City of Salem.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by yes
2) Exceptions to compliance are: none

The system is in good condition with the point of diversion located as follows: In the NW¼ NW¼, 1260' south and 300' east of the NW corner Section 13, T103N, R55W (43.728347/-97.387725). The works are capable of diverting and conveying to the place of use 0.67 cu. ft. per second of water which is to be used for municipal purposes. Water has been put to beneficial use to the maximum extent as follows:

Municipal water supply for the City of Salem.

The license should be issued for 1.33 cfs, see comments.

All structures, wells and lands on map yes

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

The City of Salem also holds water right No. 996-3 authorizing the diversion of 1.00 cfs from two wells for municipal use. Well #1 is located 1640' south and 511' east (43.727250/-97.386861) and well #2 is located 1385' south and 530' east (43.727931/-97.386845) of the NW corner Section 13, T103N, R55W both in the SW¼ NW¼.

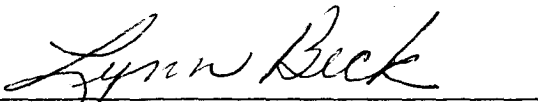
The City pumps two of the three wells at a time making the maximum combined use 600 gpm or 1.33 cfs. The maximum pump rate occurs when well #2 (996-3) and #3 (6862-3) are pumped at 1.33 cfs (600 gpm). Incorporate 996-3 and 6862-3 for a combined pump rate of 1.33 cfs.

Priority breakdown:

0.38 cfs 1934 (996-3)

0.62 cfs July 5, 1962 (996-3)

0.33 cfs June 7, 2007 (6862-3)



Lynn Beck

Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: November 17, 2010

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

Date 11-09-10

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

FROM:

City of Salem
(name)

400 N. Main St Box 249
(address)

Salem S.D. 57058
(city, state, zip)

605-425-2301
(phone)

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

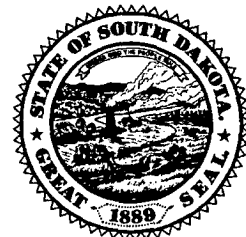
Water Permit No. 6862-3 states that the water use system is to be constructed by Sept. 10, 2012 and water is to be put to beneficial use by Sept 10, 2016.

The water use system was completed on July 2008.

Applying the water to beneficial use was completed on August 2008.

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

Wendy Hill
(signature)



WATER RIGHT NO. 6862-3

City of Salem

November 12, 2010

R55W

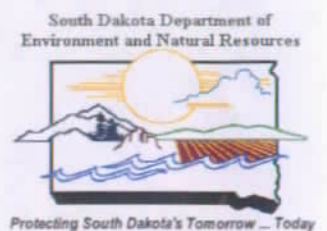
T103N



SCALE

0 165 330 660 990 1,320 Feet

Lynn Beck
Lynn Beck
Natural Resources Engineer Specialist
DENR - Water Rights Program





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 10 2011

6862-3
996-3

City of Salem
Lori Heumiller, Finance Officer
PO Box 249
Salem SD 57058

Dear Ms. Heumiller:

Enclosed is Water License No. 6862-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 6862-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

Note: The applicable portions of No. 996-3 are incorporated into Water License No. 6862-3.

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6862-3

(1) City of Salem, PO Box 249, Salem SD 57058 made Application No. 6862-3, June 7, 2007 for a water permit to divert 0.67 cubic feet of water per second (cfs) from groundwater (one well), McCook County, South Dakota for municipal use purposes. Permit No. 6862-3, with a priority date of June 7, 2007 was approved September 10, 2007 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before September 10, 2012 and for the application to beneficial use of water on or before September 10, 2016.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on November 9, 2010. The *Notice* stated the diversion system was completed in July, 2008 and the water placed to beneficial use in August, 2008.

Water License No. 996-3 with priority dates of January 1, 1934 and July 5, 1962 authorized diversion of 1.00 cfs from groundwater (two wells). The applicable portions of Water License No. 996-3 are incorporated into Water License No. 6862-3.

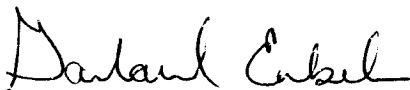
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Incorporated Water Right No. 6862-3 is issued a license, bearing a priority dates of January 1, 1934 (Well #1 – 0.38 cfs), July 5, 1962 (Well #2 – 0.62 cfs) and June 7, 2007 (Well #3 – 0.33 cfs) to appropriate a total of 1.33 cubic feet of water per second from groundwater for municipal use purposes.

The diversion points are located as follows: all from the northwest corner of Section 13-T103N-R55W

Well #1 – 1,640 feet south and 511 feet east (SW $\frac{1}{4}$ NW $\frac{1}{4}$)
Well #2 – 1,385 feet south and 530 feet east (SW $\frac{1}{4}$ NW $\frac{1}{4}$)
Well #3 – 1,260 feet south and 300 feet east (NW $\frac{1}{4}$ NW $\frac{1}{4}$)

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6862-3 including the following now applicable qualifications:

- The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 6862-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
- The city of Salem shall report to the Chief Engineer annually the amount of water withdrawn from the Sioux Quartzite Wash.



Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 10 2011

date

