

WATER PERMIT NO. 6511-3

Name of Applicant: City of Madison

Address: 116 W Center, Madison SD 57042

Phone: 605 256-7513

Amount of Water Claimed: 387 AF

Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: municipal

County: Lake

Type of Waste Disposal System:

Location:

PRIORITY

Date Received: 5-21-04

Application/License Fee: \$325

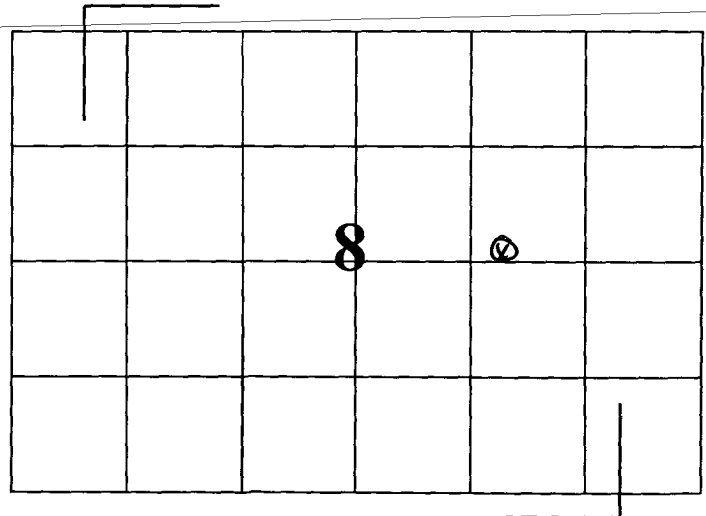
Corrected Application Received:

Period of Annual Use: Jan 1- Dec 31

Remarks:

Diversion Point: SE ¼ NE ¼ Sec 8-T106N-R52W

Land to be Irrigated:



Depth of Well: 26 feet deep

Well Driller:

Remarks:

Type of Map: topo

Prepared by: Bill Heyer, PE

Reviewed and the Number Assigned on: 5-25-04

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>6511-3</u> (office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Madison Daily Leader</u>

RECEIVED
MAY 21 2004
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 Madison, South Dakota Phone (605) 256-7513
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 116 West Center Madison State SD 57042
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.89 *CFS or 400 **GPM 387 ***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 Howard Aquifer
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Lake
1 well in NE 1/4 of section 8-T106N-R52W
(SE 1/4 NE 1/4)
5. County or counties where water will be used Lake
6. Annual period during which water is to be used Year-round use Jan 1 - 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)

This well is to be constructed in order to increase the water supply capacity to match water demands.

STATE OF SOUTH DAKOTA)

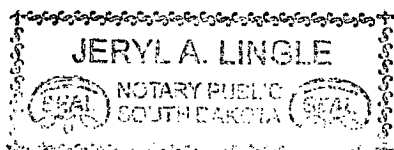
County of Lake SS

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, Royce D. Hummers, 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 Royce D. Hummers

Subscribed and sworn to before me this 18th day of May 20 04



Jeryla A. Lingle
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6511-3**



Date of first receipt of application March 21, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6511-3 to the City of Madison, 116 W Center, Madison SD 57042 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. 6511-3 appropriates 0.89 cfs (387 acre-feet annually) from one well (Howard Aquifer) 261 feet deep located in the SE ¼ NE ¼ Section 8-T106N-R52W.
2. The water appropriated shall be 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. 6511-3 is July 26, 2004.
5. The date from which applicant may claim right is May 21, 2004.
6. One-fifth of the construction is to be completed on or before January 26, 2007.
7. All construction is to be completed on or before July 26, 2009.
8. ~~Water is to be put to beneficial use on or before July 26, 2013.~~
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. 6511-3 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. Water Permit No. 6511-3 authorizes a total annual diversion of 387 acre feet of water.
4. The City of Madison shall report to the Chief Engineer annually the amount of water withdrawn from the Howard Aquifer.

WATER MANAGEMENT BOARD

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

AUG 13 2004

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 28" Depth 261'
- b) Casing Type Steel Pipe Diameter 12" Thickness .3125"
- c) Screen Type Stainless Steel Diameter 12" Thickness
- d) Gravel Pack Yes Length of Gravel Pack 36'
- e) Depth to Top of Water Bearing Material 225'
- f) Depth to Water (ground surface to water level) 84.9'
- g) Distance to nearest existing domestic well:
On applicants property 2000' On property owned by others unknown

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

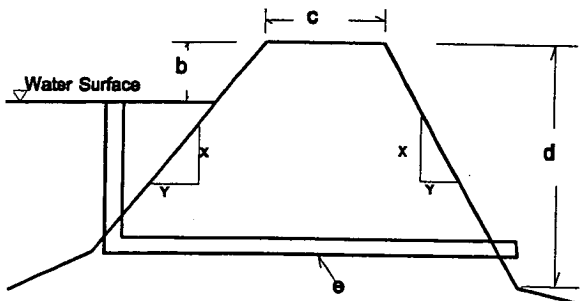
3. Dugout Information

- 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 June 2, 20 04

RECEIVED OF Finance Officer City of Madison, PO Box 308, Madison SD 57042

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

Fee for Application for Permit No. <u>6511-3</u> to Appropriate Water, to construct and to put water to beneficial use	92	50
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. _____		
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	92.50

No. 001844

By Darland Erbe
Chief Engineer gm

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 25, 20 04

RECEIVED OF Finance Officer, City of Madison, PO Box 308, Madison SD 57042

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

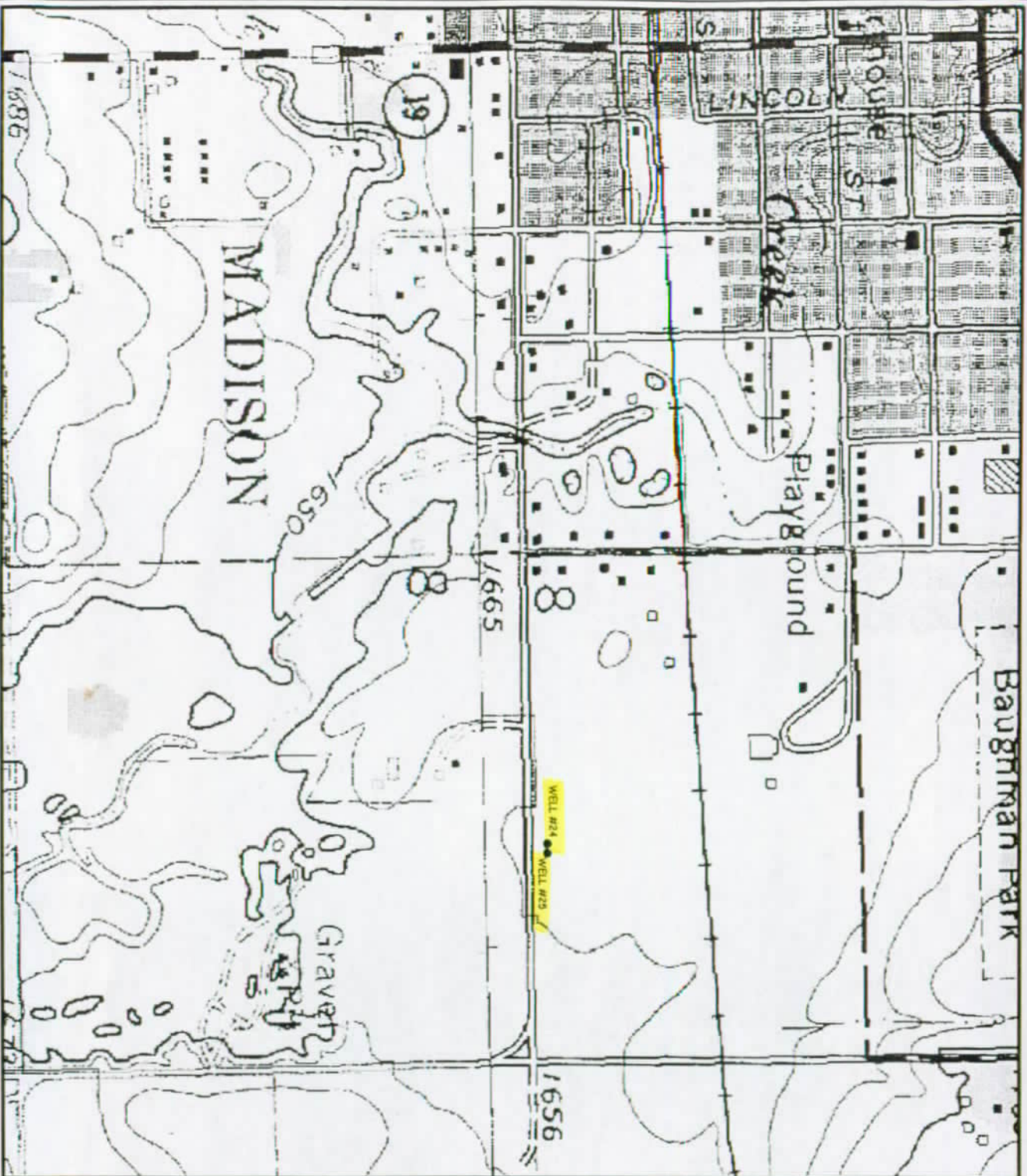
Fee for Application for Permit No. <u>6511-3</u> to Appropriate Water, to construct and to put water to beneficial use	275	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6511-3</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.

001223

By

J. Darland Eide
Chief Engineer
gm



BOTH WELLS ARE TO BE LOCATED APPROXIMATELY 98' NORTH OF THE EAST WEST CENTERLINE OF SECTION 8
 WELL NO. 24 IS TO BE LOCATED APPROXIMATELY 1548' WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8
 WELL NO. 25 IS TO BE LOCATED APPROXIMATELY 1598' WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8

DRAWN BY: JLU.
 CHECKED BY: ERS./D.CO.
 JOB NO.: 20366.00.01
 DATE: Mar. 04

Madison Municipal Well Field Expansion

Madison, South Dakota

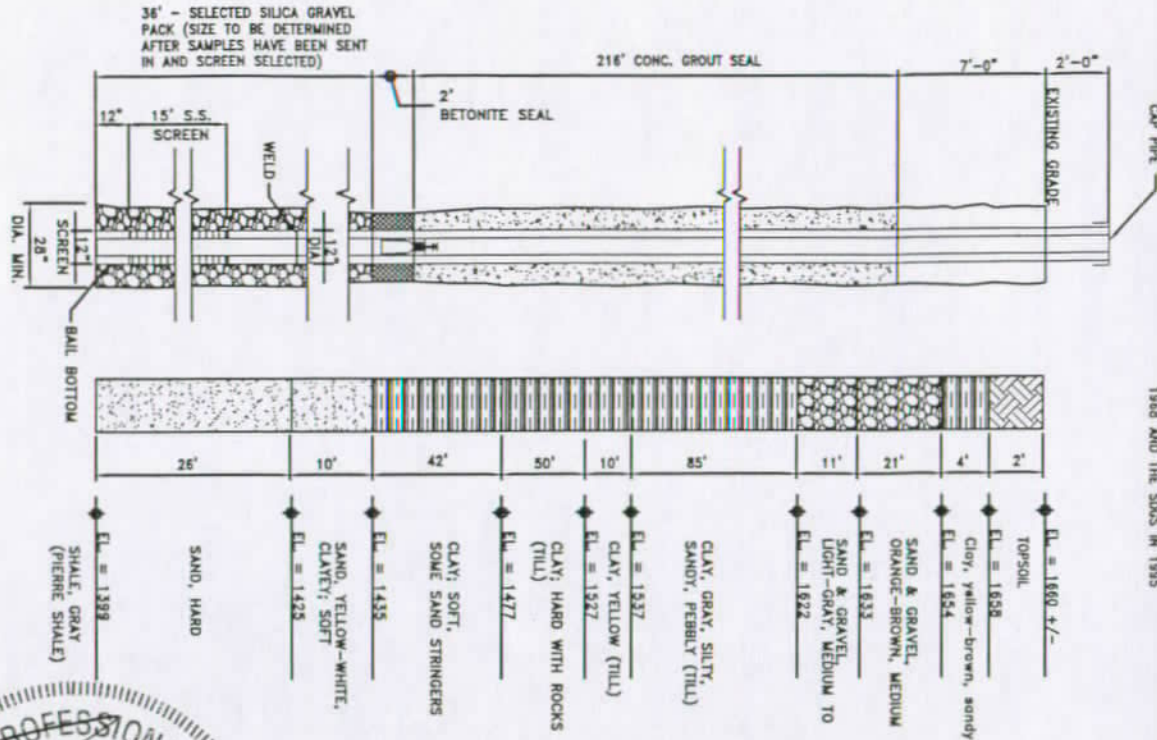
LOCATION MAP

BANNER ASSOCIATES, INC. • CONSULTING ENGINEERS & ARCHITECTS
 409 22nd Ave S • P.O. Box 278 • Brookings, SD 57006 • (605) 932-6342

BANNER

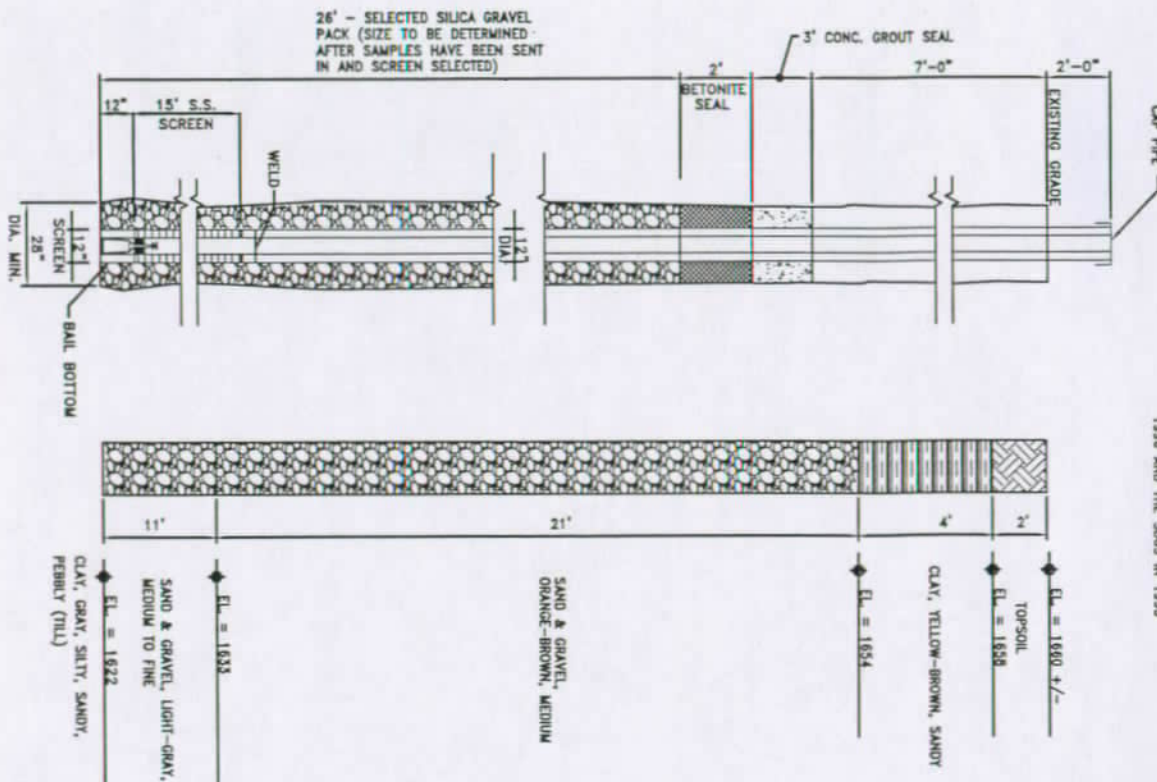
DRAWING NO. 1

NOTE: EXPECTED FORMATIONS ARE BASED ON BORING LOGS FROM OBSERVATION WELLS PUT NEAR THE SITE BY GRADSHAW DRILLING IN 1988 AND THE SOGS IN 1993



WELL CROSS SECTION - WELL NO. 24

ESTIMATED DEPTH = 261'

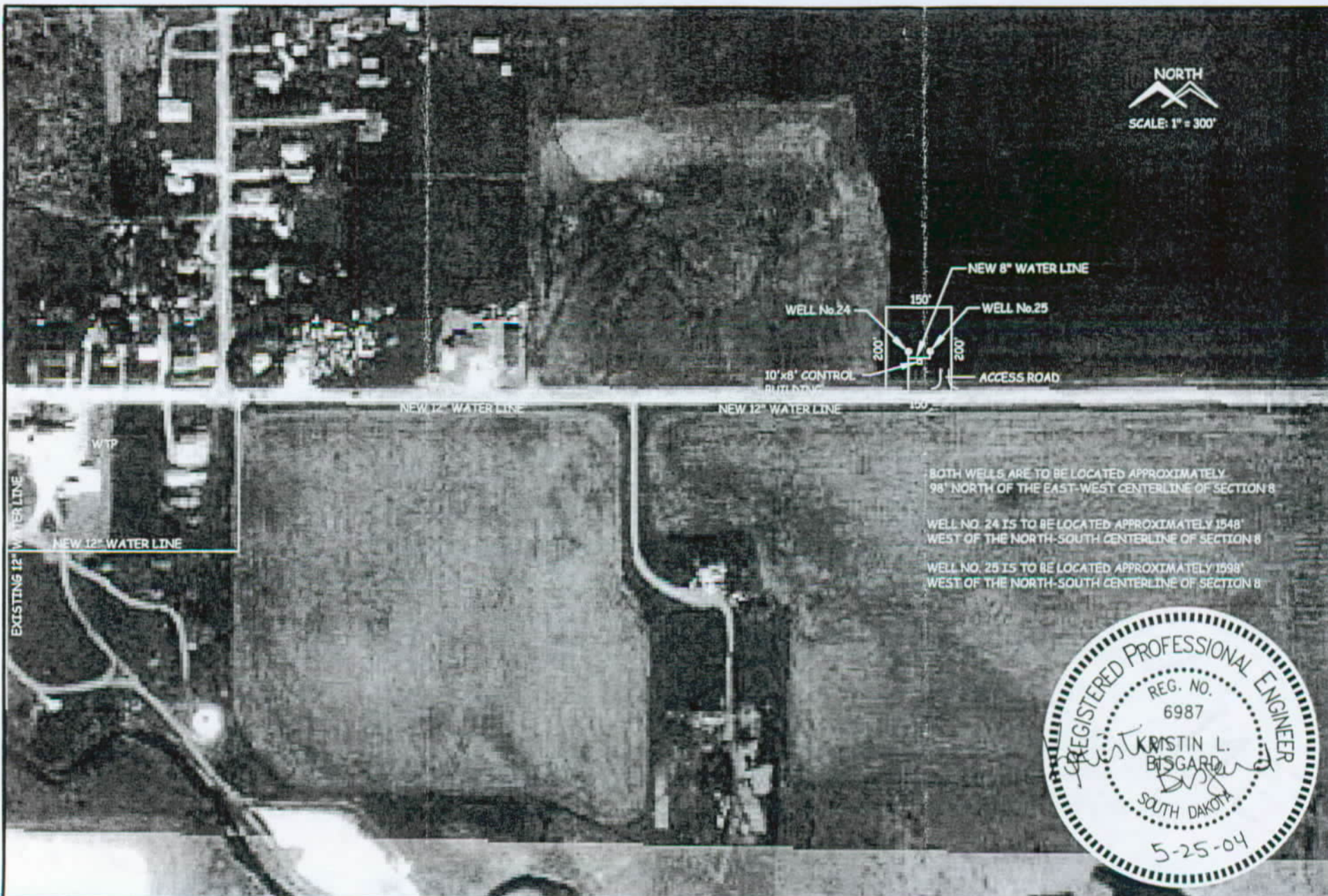


WELL CROSS SECTION - WELL NO. 25

ESTIMATED DEPTH = 38'

NOTE: EXPECTED FORMATIONS ARE BASED ON BORING LOGS FROM OBSERVATION WELLS PUT NEAR THE SITE BY LACEY WELL DRILLING IN 1996 AND THE SOGS IN 1993

NORTH
SCALE: 1" = 300'



BOTH WELLS ARE TO BE LOCATED APPROXIMATELY
98' NORTH OF THE EAST-WEST CENTERLINE OF SECTION 8

WELL NO. 24 IS TO BE LOCATED APPROXIMATELY 1548'
WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8

WELL NO. 25 IS TO BE LOCATED APPROXIMATELY 1598'
WEST OF THE NORTH-SOUTH CENTERLINE OF SECTION 8



DRAWN BY: J.L.U.	JOB NO: 20366.00.01	Madison Municipal Well Field Expansion	Madison, South Dakota	BANNER BANNER ASSOCIATES, INC. • CONSULTING ENGINEERS & ARCHITECTS 409 22nd Ave S • P.O. Box 298 - Brookings, SD 57006 • (605) 692-6342	DRAWING NO:
CHECKED BY: E.R.S./D.C.O.	DATE: Mar. 04	LOCATION MAP			1

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: City of Madison Water Right Permit Applications

ADDRESS: COUNTY: Lake

DATE: May 25, 2004 TELEPHONE:

RE: Telephone discussion with Bill Heyer, City Engineer

COMMENTS:

Mr. Heyer returned my phone call regarding the city of Madison's water right permit applications.

The three applications were amended based on Mr. Heyer's request as follows:

Application to place to beneficial use water reserved by Future Use Permit No. 747-3

- The location of the well is to be in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, T106N, R52W.
- The annual volume of water requested is 339 ac-ft of water.
- The application filing fee is \$250 plus the licensing fee \$50 for a total of \$300

Application for a permit from the Howard Aquifer

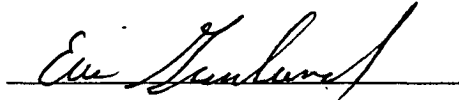
- The annual volume of water requested is 387 ac-ft of water.
- The application filing fee is \$275 plus the licensing fee \$50 for a total of \$325

Application for a future use permit from the Howard Aquifer

- Future use area is the NE $\frac{1}{4}$ of Section 8, T106N, R52W
- The annual volume of water requested to be held in reserve is 387 ac-ft of water.
- The application filing fee is \$275

I explained that the fee for all the applications totals \$900 while the amount submitted was \$807.5. Mr. Heyer asked that we submit a invoice for the remaining \$92.50. That invoice has been faxed to Mr. Heyer.

I also stated that the map is not properly signed. Mr. Heyer requested that I contact Banner & Associates. I contacted Kristine with Banner and she will be getting the location map properly signed and forwarded to the Water Rights Program.

NAME: 

REPORT ON WATER PERMIT APPLICATION NO. 6511-3
For the City of Madison
June 9, 2004

Application No. 6511-3 proposes to appropriate 0.89 cfs (387 acre-feet annually) from one well approximately 261 feet deep located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 8, T106N R52W in Lake County. The water is for municipal purposes and the well will be known as #24.

AQUIFER - HOWARD (HO)

The Howard is a buried outwash (sand and gravel) that is under confined or artesian conditions at this site. The aquifer underlies 675 square miles and contains an estimated 3.5 million acre-feet of water in storage in Lake and Moody Counties (Hansen, 1986). Ground water movement appears to be from north to south across the area of this application (Hansen, 1986). The Howard is a very large aquifer and extends into Miner County to the west, McCook County to the south, and Kingsbury and Brookings County to the north.

Test well information near the proposed well site indicates sand beginning at a depth of 235 feet below land surface and was 26 feet thick. This information fits well with existing observation well information and other test well drilling conducted by the SDGS for the City of Madison. Aquifer testing conducted by the City and the SDGS indicate that City Well #11 had a specific capacity of about 4 gpm/ft of drawdown. Data for this aquifer test was reported in SDGS Open File Report 49-UR Ground-Water Study for the City of Madison, South Dakota (Hammond, 1991).

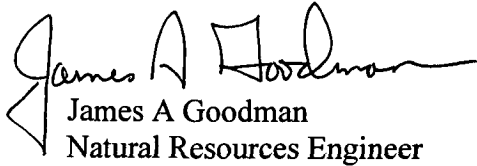
The Water Rights Program monitors an observation well LK-84A completed into the Howard aquifer and located about one-quarter mile east of this site. Water levels for this well show some response to pumping and to climatic conditions. Water levels have declined about 20 feet for the Howard aquifer since 1985. However, the hydrograph also show the effects of recharge to the aquifer system during the mid 1990's. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2004).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The only nearby existing water permits/rights are wells #10 and #11 for the City of Madison. These two wells are located about 1,770 and 2,160 feet southwest of this application respectively. Interference will occur, that is there will be overlapping drawdown created by pumping at this new well. However, the drawdown is not expected to be significant. This is shown by the aquifer test conducted for the City of Madison on City Well #11 in March of 1982.

CONCLUSIONS

1. Water is available from the Howard aquifer.
2. The aquifer is under confined conditions at this site. Drawdown will occur at these pumping rates. The magnitude of drawdown is not expected to be significant at the distance between production wells.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

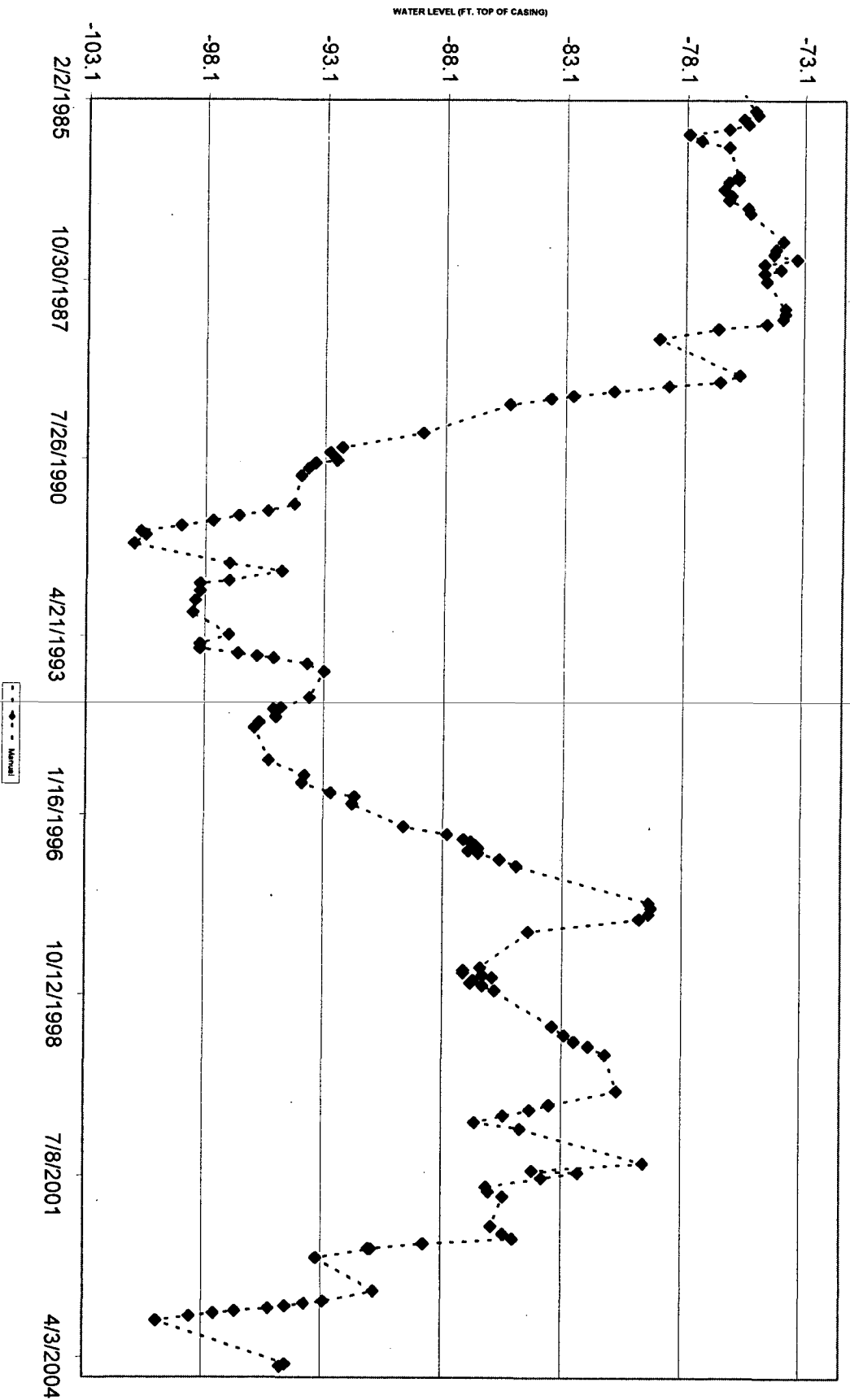
BIBLIOGRAPHY

Hammond, P.D., S.A. Green, 1991, Ground-Water Study for the City of Madison, South Dakota, Open-File Report 49-UR, SDGS, Vermillion, SD, 57069.

Hansen, D.S., 1986, Water Resources of Lake and Moody Counties, South Dakota, Water Resources Investigations Report 84-4209, USGS, Huron, SD, 57350.

Water Rights, 2004, Unpublished Observation Well Data for Lake County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
LK-84A





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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. 6511-3, City of Madison**

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. 6511-3, City of Madison, c/o Mayor Royce D Hueners, 116 W Center, Madison SD 57042.

The Chief Engineer is recommending APPROVAL of Application No. 6511-3 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:

2. 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. 6511-3 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. Water Permit No. 6511-3 authorizes a total annual diversion of 387 acre feet of water.
4. The City of Madison shall report to the Chief Engineer annually the amount of water withdrawn from the Howard Aquifer.

See report on application for additional information.

Garland Erbele, Chief Engineer
June 30, 2004

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Lake)

I, Deanna D. Bergheim

certify that the attached printed Notice was taken

from the Madison Daily Leader

printed and published in City of Madison

County of Lake and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Friday, July 9, 2004

Thursday, July 15, 2004

Cost of Printing 66.46

Deanna D. Bergheim
(Signature)

Secretary
(Title)

July 15, 2004
(Date Signed)

NOTICE OF APPLICATION NOS. 6510-3, 6511-3 AND 6512-3

Notice is given that the City of Madison, c/o Royce D Hueners, Mayor, 116 W Center, Madison SD 57042 has filed the following applications for a water permit.

Application No. 6510-3 proposes to construct and place to beneficial use 0.78 cubic feet of water per second (cfs) (339 acre-feet annually) from one well (big Sioux-Northern Skunk Creek) 38 feet deep located in the SE 1/4 NE 1/4 Section 8-T106N-R52W. This water was appropriated and reserved by Future Use Permit No. 747-3. The water will be for municipal use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6510-3 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.

Application No. 6511-3 proposes to appropriate 0.89 cfs (387 acre-feet annually) from one well (Howard Aquifer) 261 feet deep located in the SE 1/4 NE 1/4 Section 8-T106N-R52W. The water will be for municipal use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6511-3 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.

Application No. 6512-3 proposes to appropriate for future use 387-acre-feet annually from the Howard Aquifer. The area to be reserved for future water use is to be located in the NE 1/4 Section 8-T106N-R52W. The water is to be reserved for future water supplies for municipal use for the City of Madison. This application 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 No. 6512-3 because 1) unappropriated water is available, 2) the quantity of water reserved will be needed by the City of Madison, 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 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 the application. 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 (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 July 26, 2004.

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. Firner, Secretary,
Department of Environment and Natural Resources.

RECEIVED

JUL 21 2004

WATER RIGHTS
PROGRAM



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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.

June 30, 2004

City of Madison
% Royce D Hueners Mayor
116 W Center
Madison SD 57042

Dear Mayor Hueners:

Water Permit Application Nos. 6510-3, 6511-3 & 6512-3 for municipal use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Madison Daily Leader printed at Madison, SD (Ph # 605-256-4555). 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,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

c: Bill Heyer, City Engineer, Madison

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.

Instruction to Newspaper - Publish first Notice on July 8, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 6510-3, 6511-3 and 6512-3

Notice is given that the City of Madison, c/o Royce D Hueners, Mayor, 116 W Center, Madison SD 57042 has filed the following applications for a water permit.

Application No. 6510-3 proposes to construct and place to beneficial use 0.78 cubic feet of water per second (cfs) (339 acre-feet annually) from one well (Big Sioux-Northern Skunk Creek) 38 feet deep located in the SE ¼ NE ¼ Section 8-T106N-R52W. This water was appropriated and reserved by Future Use Permit No. 747-3. The water will be for municipal use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6510-3 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.

Application No. 6511-3 proposes to appropriate 0.89 cfs (387 acre-feet annually) from one well (Howard Aquifer) 261 feet deep located in the SE ¼ NE ¼ Section 8-T106N-R52W. The water will be for municipal use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6511-3 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.

Application No. 6512-3 proposes to appropriate for future use 387 acre-feet annually from the Howard Aquifer. The area to be reserved for future water use is to be located in the NE ¼ Section 8-T106N-R52W. The water is to be reserved for future water supplies for municipal use for the City of Madison. This application 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 No. 6512-3 because 1) unappropriated water is available, 2) the quantity of water reserved will be needed by the City of Madison, 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 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 the application. 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 (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 July 26, 2004.

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.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 30, 2004

Madison Daily Leader
PO Box 348
Madison SD 57042-0348

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application Nos. 6510-3, 6511-3, 6512-3 to Appropriate Water to be published twice. Please publish the first notice on July 8, 2004 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 Madison, %Royce D Hueners, 116 W Center, Madison SD (Ph # 605-256-7513).

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. 6510-3, 6511-3 & 6512-3

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

Date _____

We are in receipt of your letter of June 30, 2004 enclosing Notice of Hearing to Appropriate Water by Application No. 6510-3, 6511-3 & 6512-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 13 2004

6510-3
6511-3
6512-3

City of Madison
Bill Heyer, City Engineer
116 West Center
Madison SD 57042

Dear Mr. Heyer:

Enclosed are Water Permit Nos. 6510-3, 6511-3 and Future Use Permit No. 6512-3. Water Permit Nos. 6510-3 and 6511-3 authorize construction of the city's water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Two Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems 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.

When plans for facilities are prepared to put any portion of the water granted in Future Use Permit No. 6512-3 to beneficial use, an application covering such facilities and water use should be submitted to this office before construction is initiated.

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.

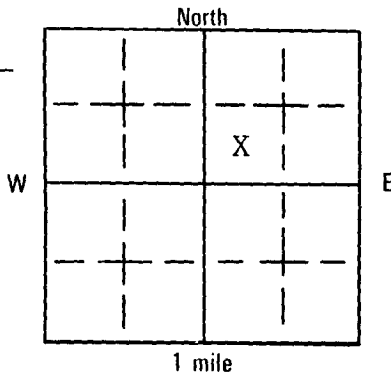
Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SW 1/4 NE 1/4 Sec 8 Twp 106 Rg 52County
LAKEPlease mark well
location with
an "X"Well Completion Date 9-30-04

PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

ROTARY

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>.375/49.56</u> LB/FT	<u>12</u> IN	<u>0</u> FT	<u>231</u> FT	<u>24"</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? HIGH SOLID BENTONITE SEAL FEETWhat is grouting material? FROM 226 - 220If cement, number of sacks? NEAT PORTLAND CEMENTDescribe grouting procedure GROUT FROM 220 - 0What was grout weight? 15 LB/GALSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 30 FEETMaterial STAINLESS STEELSlot Size .030 Set From 231 Feet To 261 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain WATER CHLORINE BACKWASHBacteriological analysis ☒ YES ☐ NOLaboratory sent to WATER PURIFICATION PLANT,
SIOUX FALLS, SD

Well Owner:

Name CITY OF MADISONAddress 116 WEST CENTER ST MADISON SD

Well Log:

Depth

Formation

From

To

GRAVEL, ROCKS & SAND

0

35

BLUE CLAY

35

132

BROWN TO YELLOW CLAY

132

150

YELLOW CLAY, SANDY

150

160

HARD BROWN CLAY

160

199

MED YELLOW CLAY

199

232

FINE SAND, FIRM

232

262

FINE SAND W/CLAY LENZES

262

268

HARD SHALE

268

280

RECEIVED

FEB - 4 2005

WATER RIGHTS
PROGRAMSTATIC WATER LEVEL 120' 2.5" Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped _____☐ Bailed

Describe: _____

☐ Other _____

Pumping Level Below Land Surface

164.5 ft. After 24 Hrs. pumped 300 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS: WELL #2This well was drilled under license # 475

And this report is true and accurate.

Drilling firm THEIN WELL COMPANY, INC.

Signature of License Representative:

Signature of Well Owner:

William J. Meyer City Engr.Date 1/31/2005 Jan. 31, 2005

Permit No. 6511-3
Big Sioux 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, July 27, 2012, made a thorough examination of the water use system constructed by City of Madison of 116 West Center, Madison, SD 57042 holder of Permit No. 6511-3, bearing the priority of May 21, 2004 authorizing the diversion of 0.89 cubic feet per second (cfs) (387 acre-feet annually) of the waters of the Howard Aquifer for Municipal purposes, in Lake County.

Inspection contact & relationship **Fred Snoderly (256-7515)**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Thein Well Company, Inc.
- 2) No. of Wells 1
- 3) Depth(s) 280
- 4) Well log is available Y

Casing:

- 1) Diameter 12 inches
- 2) Length 231 feet
- 3) Type Steel

Screen:

- 1) Type Stainless Steel
- 2) Length 30 feet
- 3) Static water level 120 feet

Pump:

- 1) Make Grundfos
- 2) Model 385S250-4B
- 3) Size 25 hp
- 4) Capacity 385 GPM

Motor:

- 1) Make Hitachi
- 2) Serial No. JO2G89907E

B. Compliance with Permit Requirements:

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

The system is in Good condition with the point(s) of diversion located as follows:

Approximately 2,560 feet south and 1,725 feet west of the NE corner of Section 8-T106N-R52W
(N 44.00083, W -97.09624) (SW ¼ NE ¼)

The works are capable of diverting and conveying to the place of use 0.86 cu. ft. per second of water which is to be used for Municipal use.

The license should be issued for 0.86 cfs (387 acre-feet annually).

All structures, wells and lands on map Y

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


Mike DeFea

Natural Resources Engineer II
DENR, Water Rights Program

Date report completed: July 30, 2012

Approval of Location Change and/or Additional Diversion Point(s)

NAME: City of Madison

ADDRESS: 116 West Center, Madison, SD 57042

DATE: August 1, 2012

COUNTY: Lake

TELEPHONE: 256-7513

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The water source is the Howard aquifer which is the same aquifer as permitted. The permit was for a well in the Howard aquifer to be located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8-T106N-R52W. The well was actually constructed in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ of the same section.

- **If irrigation, no new land is irrigated**

This well is for municipal use for the city.

- **Review of Existing Diversions**

- The nearest Howard aquifer well is located approximately 2 miles east and interference would not be expected.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion point(s) be licensed as developed.



Mike DeFea, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program

City of Madison
Permit No. 6511-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
July 30, 2012



Sam DeFea



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

SEP 14 2012

6511-3

Fred Snoderly, Public Works Director
City of Madison
116 W Center
Madison SD 57042

Dear Mr. Snoderly:

Enclosed is Water License No. 6511-3. This is the final water right document completing the process of obtaining a Water Right. Included with the license is a map prepared by the staff engineer who conducted the field 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. 6511-3, 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 the city uses 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

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6511-3**

(1) The City of Madison, 116 W Center, Madison SD 57042 made Application No. 6511-3, May 21, 2004 for a water permit to divert 0.89 cubic feet of water per second (387 acre feet annually) from ground water (one well – Howard Aquifer), Lake County, South Dakota for municipal purposes. Permit No. 6511-3, with a priority date of May 21, 2004 was approved July 26, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 26, 2009 and for the application to beneficial use of said water on or before July 26, 2013.

Water Permit No. 6511-3 was permitted for a well located in the SE ¼ NE ¼ Section 8, T106N, R52W. An investigation of the water use system found the well was drilled in the SW ¼ NE ¼ Section 8. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the change in location of the diversion point did not increase the potential for adverse effects to existing diversions.

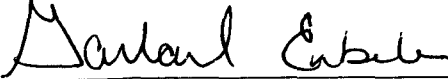
(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.86 cubic feet of water per second (387 acre feet annually) for beneficial use. The location of the diversion point is 2,560 feet south and 1,725 feet west of the NE corner of Section 8, T106N, R52W (SW ¼ NE ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 the City of Madison, 116 W Center, Madison SD 57042 the holder and/or owner of Water Right No. 6511-3 is issued a license to appropriate water, the right to use 0.86 cubic feet of water per second (387 acre feet annually) from ground water (one well- Howard Aquifer) with a priority date of May 21, 2004 from the location specified in (2) of this license for municipal purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6511-3 and subject to the following qualifications:

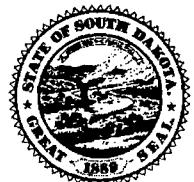
- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 6511-3 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. ***Well completed in September 2004 by Thein Well Drilling – copy of log on file with the Water Rights Program.***
- Water Permit No. 6511-3 authorizes a total annual diversion of 387 acre feet of water.
- The City of Madison shall report to the Chief Engineer annually the amount of water withdrawn from the Howard Aquifer.



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

SEP 14 2012

date



1079-3 1453-3 1604-3 371-1 372-3
6512-3 6511-3 6510-3 747-3 6040-3



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

October 21, 2025

8792-3

City of Madison
c/o Finance Officer
503 S Highland Ave
Madison SD 57042

Attention Finance Officer:

Enclosed is a "Notice" dated October 8, 2025, concerning the 2025 Irrigation Questionnaire.

The notice was originally mailed to the City of Madison at 116 W Center St, Madison SD 57042. The post office notified our office that your address has changed, and your records have been updated accordingly.

This is a time sensitive matter. Please complete and return the enclosed questionnaire or submit your report online at <https://danr.sd.gov/iq/> using this password **FFDLQE**.

If this change of address is in-correct, please contact our office immediately to update your contact information.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us

enclosures

553 NFE 1 C24C0010/15/25
RETURN TO SENDER
: CITY OF MADISON
503 S HIGHLAND AVE
MADISON SD 57042-3227

RETURN TO SENDER