

WATER PERMIT NO. 6542-3

Name of Applicant: City of Lake Norden

Address: PO Box 213, Lake Norden SD

Phone: 605 785-3602

Amount of Water Claimed: 262 acre-feet

Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: municipal

County: Hamlin

Type of Waste Disposal System:

Location: 1 miles northwest of Lake Norden

PRIORITY Date Received: 10-14-04

Application/License Fee: \$300

Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks: Withdrawing from Future Use Permit No. 6261-3

Diversion Point: NE ¼ NW ¼ Sec 17-T113N-
R53W

Land to be Irrigated: NA

Depth of Well: 38 feet

Well Driller:

Remarks:

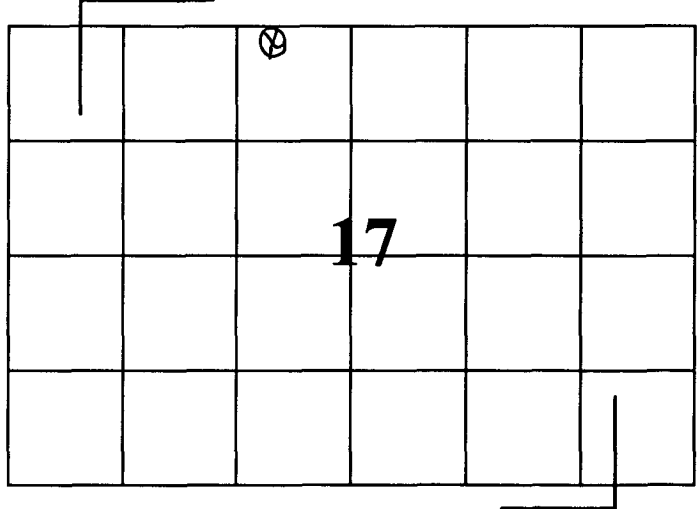
Type of Map: topo

Prepared by: Daryl C Englund, PE

Reviewed and the Number Assigned on: 10-14-04

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



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	(office use only)
	No. <u>6542-3</u> Hydrologic Unit <u>10170201</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Estelline Journal, Estelline</u>

RECEIVED
OCT 14 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: ☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☒ Place to Beneficial Use Water Reserved by Future Use Permit No. 6261-3
☐ Amendment/Correction to Permit No. _____

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

Construct 1 new water supply well to place to beneficial use 262 Acre-Ft from future use permit 6261-3.

1. Name of Applicant City of Lake Norden, South Dakota Phone 605-785-3602
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 508 Main Avenue P.O. Box 213 Lake Norden State SD 57248-0213
(Street, R.R. or Box) (Zip Code)

2. Amount of water claimed 0.60 *CFS or 270 **GPM 262 ***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 Ground Water - 1 Well

4. Location of point of diversion (example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)

One (1) New Well located in the NE 1/4 NW 1/4 in Section 17 - T113N - R53W, Hamlin County, South Dakota

County Hamlin

5. County or counties where water will be used Hamlin

6. Annual period during which water is to be used January 1 - December 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).

The City of Lake Norden intends to use the water reserved under this permit to supply additional water to the existing water distribution system for the consumers of Lake Norden, South Dakota.

STATE OF SOUTH DAKOTA)

County of Hamlin)

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, Rusty Antonen, 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

Signed Rusty Antonen, Mayor
Subscribed and sworn to before me this 13th day of October, 2004

Stephanie Hamm
Notary Public

SOUTH DAKOTA
WATER PERMIT NO. 6542-3

Date of first receipt of application October 14, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6542-3 to City of Lake Norden, PO Box 213, Lake Norden SD 57248-0213 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. 6542-3 authorizes constructing and placing to beneficial use 0.60 cubic feet of water per second (262 acre-feet annually) from one well to be completed into the Big Sioux Aquifer (approximately 38 feet deep) located in the NE 1/4 NW 1/4 Section 17-T113N-R53W. This water was appropriated and reserved by Future Use Permit No. 6261-3.
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. 6542-3 is December 27, 2004.
5. The date from which applicant may claim right is May 10, 2001 (established by Future Use Permit No. 6261-3).
6. One-fifth of the construction is to be completed on or before June 27, 2007.
7. All construction is to be completed on or before December 27, 2009.
8. Water is to be put to beneficial use on or before December 27, 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 city of Lake Norden shall report to the Chief Engineer annually the amount of water withdrawn each year from the Brookings Management Unit of the Big Sioux Aquifer.

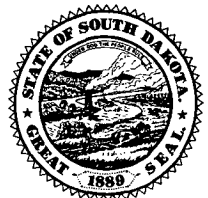
WATER MANAGEMENT BOARD

By: Garland Erbele

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

JAN 18 2005

date



1. Well Information - Proposed Construction – Well #9

- a) Drill Hole Diameter 24" Depth 38'
- b) Casing Type PVC Diameter 12" Thickness 0.606"
- c) Screen Type Stainless Steel Diameter 12" Thickness 0.345"
- d) Gravel Pack 6" Length of Gravel Pack 15'
- e) Depth to Top of Water Bearing Material 10'
- f) Depth to Water (ground surface to water level) 10'
- g) Distance to nearest existing domestic well: **Unknown**

On applicants property _____

On property owned by others X**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 _____

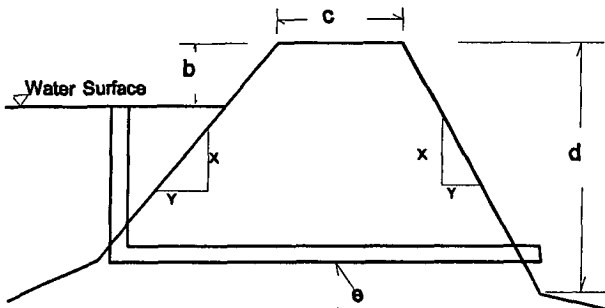
3. Dugout Information

- 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 October 14, 20 04

RECEIVED OF City of Lake Norden, PO Box 213, Lake Norden SD 57248-0213

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

Fee for Application for Permit No. <u>6542-3</u> and to put water to beneficial use <u>40</u>	250	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>6542-3</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	300.00

No.

000000

By

Darlan Erbe
Chief Engineer

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6542-3

07-92

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 17 Twp 113 Rg 53W

County

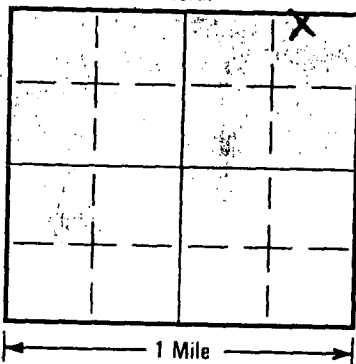
North

Hanlin

Please mark well location with an "X"

W

E



Well Completion Date

10-18-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 900 ft. from Low land (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Direct Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>Sch. 40</u> LB/FT	<u>12</u> IN	<u>6 1/2</u> FT	<u>28</u> FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type portland cement No. of Sacks _____ Grout Weight 941 lb./gal From 0 ft To 28 ft
 Describe grouting procedure pressure pull method

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 10 FEET

Material Stainless steel

Slot Size #20 Set From 28 Feet to 38 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

YES, How: HTH tablets

NO, Why Not? _____

Laboratory sent to for water quality analysis

Pierre

Well Owner: City of Lake Norden

Business Name: _____

Address: Lake Norden SD 57248

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1 1/2
yellow clay	1 1/2	17
yellow gravel fine to medium	14	18
fine grey sand w/ll plinke	18	22
coarse grey sand w/ll 20 links	22	27
fine grey sand w/ll 20 links	27	38
Blue clay	38	40

STATIC WATER LEVEL

If flowing: closed in pressure _____ Feet

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: pumped with Sch. 40
☐ Bailed
☐ Other

Pumping Level Below Land Surface

26 ft. After 8 Hrs. pumped 250 GPM

31 1/2 ft. After 8 Hrs. pumped 400 GPM

If pump installed, pump rate _____ GPM

REMARKS

pumped 6 hrs @ 400 then backed down to 250 @ 8 hrs.

This well was drilled under license # 699

And this report is true and accurate.

Drilling firm Kaiser Well Drilling Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Andy Centonze, Mayor

Date: 10/20/04

RECEIVED

OCT 28 2004

WATER RIGHTS PROGRAM

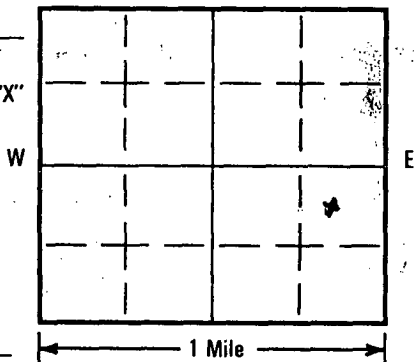
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6417-3

07-92

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 17 Twp 113 Rg 53WCounty Hamlin North

Please mark well location with an "X"



Well Completion Date

6-3-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1040 ft. from Skunk (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Direct RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>Sch 40</u> LB/FT	<u>12</u> IN	<u>2</u> FT	<u>66</u> FT	<u>26</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>portland</u>	_____	<u>961</u> lb./gal	<u>0</u> ft.	<u>51</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure pressure pull methodSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 20 FEETMaterial Stainless SteelSlot Size 0.100 Set From 66 Feet to 86 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☒ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? 12 Scoops from Jan 10

DISINFECTION: Was well disinfected upon completion?

☒ YES, How:4 + 4 Tablets☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

PierreWell Owner: City of Lake & Nordan

Business Name: _____

Address: Lake Nordan SD 57248

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	8"
yellow clay	8"	4
yellow sand w/lt O links	4	12
yellow gravel medium w/lt O links	12	20
Grey fine sand w/lt R links	20	26
Blue Clay	26	50
Grey fine sand w/lt R links	50	55
Blue Clay	55	68
Grey coarse gravel w/lt	68	70

STATIC WATER LEVEL

27

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS	
Grey medium to coarse	70-80
Grey coarse mixed medium gravel	80-86
w/lt 10 links	80-100
Blue Clay	

This well was drilled under license # 68

And this report is true and accurate.

Drilling firm Kaiser Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder:

City of Lake & Nordan Audrey Anderson MayorDate: 6-8-04

RECEIVED

JUN 22 2004

WATER RIGHTS PROGRAM

RECEIVED

OCT 14 2004

WATER RIGHTS
PROGRAM

CITY OF LAKE NORDEN

508 Main Avenue
PO Box 213
Lake Norden, SD 57248-0213

October 13, 2004

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

Attn: Eric Gronlund

RE: Water Rights for New Wells for
City of Lake Norden, SD.
SD Water Right Nos. 6261-3

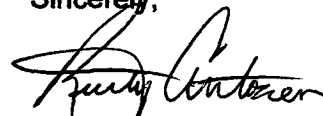
Dear Mr. Gronlund:

Attached hereto are two (2) copies of a completed application for a permit to appropriate water within the State of South Dakota. The City of Lake Norden proposes to construct 1 new well located in the NE ¼, NW ¼ Section 17-T113N-R53W, Hamlin County, South Dakota. The City is requesting to place to beneficial use 262 Acre-Ft from future use permit NO. 6261-3.

We have also enclosed herewith, the required \$250 fee for the requested 262 Acre-Ft of water, plus the \$50 inspection fee for a total of \$300.

If you have any questions regarding this matter please call Kevin Kuebler or Daryl Englund, Banner Associates, Inc. at 605-692-6342.

Sincerely,



Rusty Antonen, Mayor
City of Lake Norden

Enclosures

CC: Banner Associates, Inc.

REPORT ON WATER PERMIT NO. 6542-3
For the City of Lake Norden
November 16, 2004

Application No. 6542-3 proposes to construct and place to beneficial use 0.60 cfs (262 acre-feet annually) from one well approximately 38 feet deep located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 17, T113N R53W in Hamlin County. This water was appropriated and reserved by Future Use Permit No. 6261-3 and is for municipal use by the city.

AQUIFER – BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a surficial outwash (sand and gravel) that is under water table conditions in this area. The aquifer underlies 88,500 acres and contains an estimated 331,880 acre-feet of recoverable water in storage in Hamlin County (Hedges, 1982). The aquifer is hydraulically connected to area creeks and lakes and extends into Brookings County to the south and blends into the Big Sioux North aquifer to the north. Ground water movement is from northwest to southeast and toward Lake Norden in this area (Kume, 1985). Recharge to the aquifer is estimated at 6.57 inches per year where under water table conditions and 3.29 inches per year where under artesian conditions (Koch, 1980). Under normal conditions recharge to the aquifer should be sufficient to maintain diversions but under extended drought periods water level changes (fluctuations) could cause pumping rates to decline simply because of the relatively thin saturated thickness of the aquifer in this area. The city should be able to manage around this scenario with their existing well field configuration and conservation measures.

Information supplied by the driller indicates a 38 feet deep well (sand and gravel from 14 to 38 feet below land surface) with a static water level of nine feet below land surface. The well was capable of producing 250 gpm with 17 feet of drawdown and 400 gpm with 22.5 feet of drawdown. This equates to a specific capacity of 14.7 to 17.7 gpm/ft of drawdown. This is not a highly prolific well site and would be on the low end for specific capacity for the Big Sioux aquifer.

The Water Rights Program monitors an observation well HN-76D located in this immediate area. Water levels for this well show good response to climatic conditions that is rising water levels during wet years and gradually declining water levels during dry years. In general the hydrograph indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2004). A hydrograph for observation well HN-76D is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing Water Right No. 141-3 with a diversion point (well) located about one-quarter mile north of this site). It is likely that drawdown would extend between these diversion points, however, this would not be expected to cause adverse effects. Interference is not expected to be a problem but during extended drought and during periods of pumping (irrigation season) there is the potential of diminished well yields.

The next nearest permitted (also for the city of Lake Norden) well is located to the east and south of this site and about one-half mile away. Interference with these wells is not expected to be a concern.

CONCLUSIONS

1. Water is available from the Big Sioux Brookings aquifer.
2. The aquifer is under water table conditions in this area. Pumping does not create significant drawdown very far away from individual production wells. Interference is not expected to be a concern.
3. Because of the relative thin saturated thickness of the aquifer in this area, and the general susceptibility of the aquifer water levels to drought, there may be time periods with diminished well yield due to those climatic conditions.
4. This well has been constructed in accordance with SD Well Construction Standards.
5. Approval of this application will use all the available water left in future use permit No. 6261-3. The city of Lake Norden will not have any water remaining in future use.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

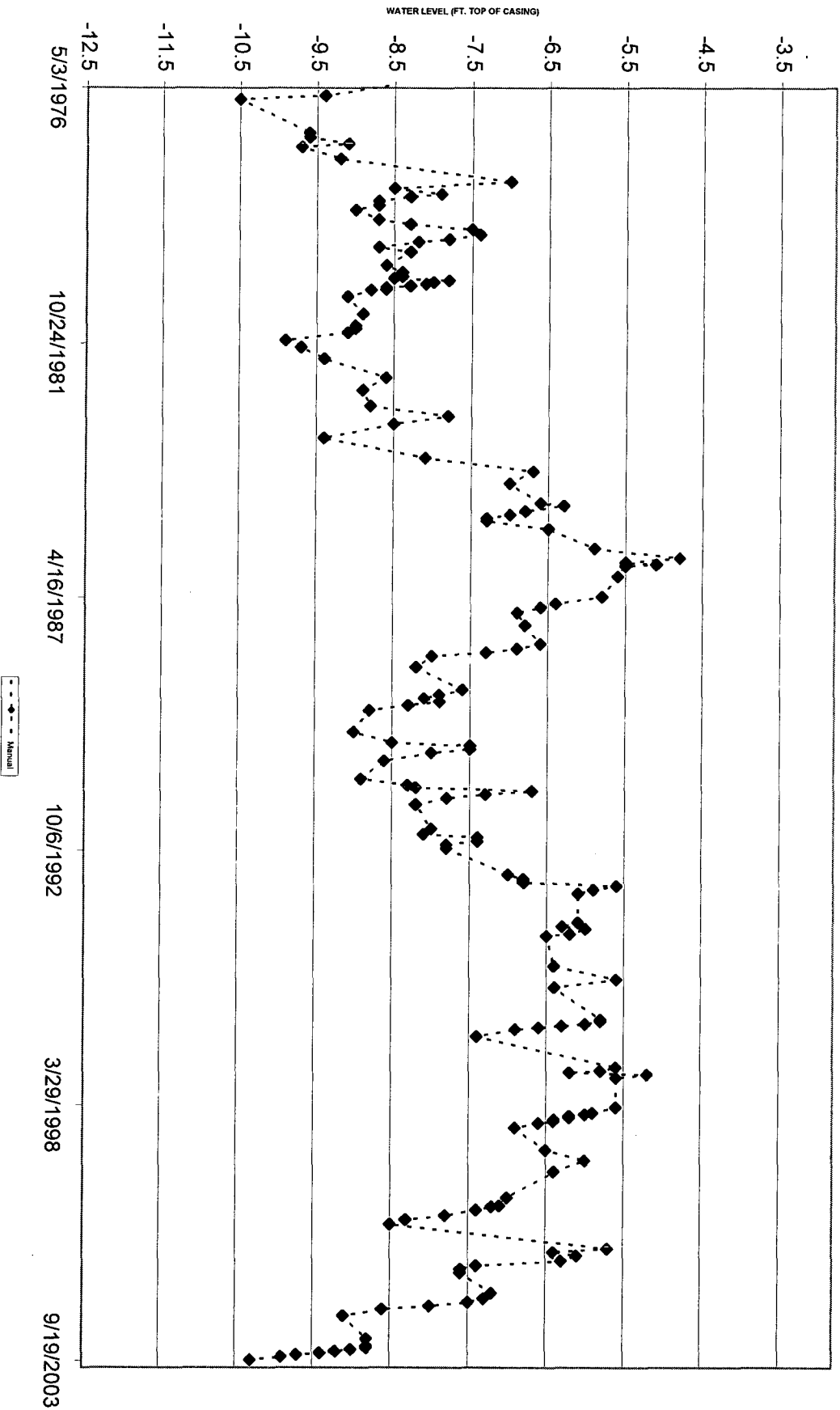
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, Water Resources Investigations 80-100, USGS, Huron, SD, 57350.

Kume, J., 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, Water Resources Investigations Report 84-4069, USGS, Huron, SD, 57350.

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

WATER RIGHTS' OBSERVATION WELL HN-76D





**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. 6542-3, City of Lake Norden**

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. 6542-3, City of Lake Norden, c/o Mayor Rusty Antonen, PO Box 213, Lake Norden SD 57248-0213.

The Chief Engineer is recommending APPROVAL of Application No. 6542-3 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 city of Lake Norden shall report to the Chief Engineer annually the amount of water withdrawn each year from the Big Sioux-Brookings Management Unit Aquifer.

See report on application for additional information.

Garland Erbele, Chief Engineer
November 30, 2004

Affidavit of Publication

STATE OF SOUTH DAKOTA, County of Hamlin, ss

LeeAnne Archer of said County and State being first duly sworn, on his oath says: That The Estelline Journal is a weekly newspaper of general circulation, printed and published in Estelline in said County and State by LeeAnne Archer, that the said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly, and has been published within said County for fifty-two successive weeks prior to the publication of the notice herein mentioned, and was and is printed wholly or in part in an office maintained at said place of publication; and has been such newspaper during the time hereinafter mentioned; and that I, LeeAnne Archer, the undersigned, am publisher of said newspaper, in charge of the advertising department thereof and have personal knowledge of all facts stated in this affidavit; and that the advertisement headed:

Application # 6542-3

a printed copy of which is hereto attached, was printed and published in the regular and entire issue of said newspaper and not in supplement, once each week for 2 successive weeks, the first publication made on the 8 day of Dec., 2004, and the last publication on the 15 day of Dec., 2004.

The 1st publication made on the 8 day of Dec. 2004

The 2nd publication made on the 15 day of Dec. 2004

The 3rd publication made on the _____ day of _____ 2004

The 4th publication made on the _____ day of _____ 2004

The 5th publication made on the _____ day of _____ 2004

The 6th publication made on the _____ day of _____ 2004

The 7th publication made on the _____ day of _____ 2004

The 8th publication made on the _____ day of _____ 2004

The 9th publication made on the _____ day of _____ 2004

The 10th publication made on the _____ day of _____ 2004

That the full amount of the fees for publication of the annexed notice is \$ 41.37 and insures solely to the benefit of said publisher that no agreement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any person whomsoever.

LeeAnne Archer

Subscribed and sworn to before me this 30 day of Dec., 2004.

Maureen Manning

Notary Public

My commission expires _____

My Commission Expires November 10, 2008.

NOTICE OF APPLICATION NO. 6542-3 TO APPROPRIATE WATER

Notice is given that the City of Lake Norden, c/o Rust Antonen, Mayor, PO Box 213, Lake Norden, SD 57248, has filed an application for a water permit to construct and place to beneficial use 0.60 cubic feet of water per second (262 acre-feet annually) from one well to be completed in the Big Sioux Aquifer (approximately 38 feet deep) located in the NE 1/4 NW 1/4 Section 17-T113N-R53W. This water was appropriated and reserved by Future Use Permit No. 6261-3. The water will be used for municipal purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6542-3 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 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 this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by December 27, 2004.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reason 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
(publish dec. 8 and 15, 2004)

HAMLIN COUNTY PUBLISHING

RECEIVED
JAN - 3 2005
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

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

December 1, 2004

City of Lake Norden
% Rusty Antonen Mayor
PO Box 213
Lake Norden SD 57248

Dear Mayor Antonen:

Water Permit Application No. 6542-3 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 Estelline Journal printed at Estelline, SD (Ph # 605-873-2475). 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 a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, 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 application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

cc: Kevin Kuebler, Banner Associates Inc.

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.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

December 1, 2004

Estelline Journal
214 Main St
Estelline SD 57234-0159

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6542-3 to Appropriate Water to be published twice. Please publish the first notice on December 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 Lake Norden, % Rusty Antonen Mayor, PO Box 213, Lake Norden (Ph # 605-785-3602).

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. 6542-3

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

Date _____

We are in receipt of your letter of December 1, 2004 enclosing Notice to Appropriate Water by Application No. 6542-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

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

NOTICE OF APPLICATION NO. 6542-3 to Appropriate Water

Notice is given that the City of Lake Norden, c/o Rusty Antonen, Mayor, PO Box 213, Lake Norden SD 57248 has filed an application for a water permit to construct and place to beneficial use 0.60 cubic feet of water per second (262 acre-feet annually) from one well to be completed into the Big Sioux Aquifer (approximately 38 feet deep) located in the NE ¼ NW ¼ Section 17-T113N-R53W. This water was appropriated and reserved by Future Use Permit No. 6261-3. The water will be used for municipal purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6542-3 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 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 this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by December 27, 2004.

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 18 2005

City of Lake Norden
% Rusty Antonen Mayor
PO Box 213
Lake Norden SD 57248-0213

Dear Mayor Antonen:

Enclosed is Water Permit No. 6542-3 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

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

Date January 26, 2005

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

RECEIVED

JAN 31 2005

WATER RIGHTS
PROGRAM

FROM: City of Lake Norden
(name)
508 Main Avenue
(address)
Lake Norden, SD 57248-0213
(city, state, zip)

605-785-3602
(phone)

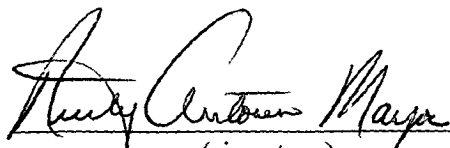
I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

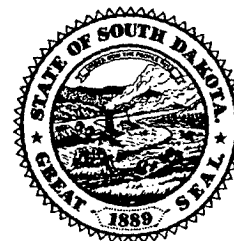
Water Permit No. 6542-3 states that the water use system is to be constructed by
December 27, 2009, and water is to be put to beneficial use by December 27, 2013.
(date) (date)

The water use system was completed on January 7, 2005.
(date)

Applying the water to beneficial use was completed on January 24, 2005.
(date)

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


(signature)



Permit No. 6542-3
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, **August 21, 2006**, made a thorough examination of the water use system constructed by **City of Lake Norden** of **PO Box 213, Lake Norden, SD 57248** holder of Permit No. **6542-3**, bearing the priority of **May 10, 2001** authorizing the diversion of **0.60** cu. ft. per second of the waters of the **Big Sioux:Brookings Aquifer** for **Municipal use** purposes, in **Hamlin** County.

Inspection contact & relationship to permit holder, if applicable: **Delores Kangas (City Finance Officer 785-3602)**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Kaiser Well Drilling Inc**
- 2) No. of Wells **1**
- 3) Depth(s) **40** feet
- 4) Well log is available **Y**

Casing:

- 1) Diameter **12** inches
- 2) Length **28** feet
- 3) Type **Plastic**

Screen:

- 1) Type **Stainless Steel**
- 2) Length **10** feet
- 3) Static water level **9** feet

Pump:

- 1) Make **Grundfos Variable Speed**
- 2) Size **7.5 hp**
- 3) Capacity **270** GPM

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:

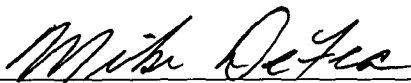
Approximately 25 feet south and 1450 feet east of the NW corner of Section 17-T113N-R53W
(N 44.60107, W -97.22382).

The works are capable of diverting and conveying to the place of use 0.60 cu. ft. per second of water which is to be used for Municipal use.

All structures, wells and lands on map Y

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

Water Permit No. 6542-3 authorizes the diversion of 0.60-cfs (262 acre-feet) of water for municipal use from water reserved by Water Permit No. 6261-3. Water Permit No. 6261-3 is authorized to reserve 784 acre-feet of water for the City of Lake Norden for future use. Water Permit No. 6417-3 is also authorized to appropriate 522 acre-feet of water covered under Future Use Permit No. 6261-3 leaving 0-cfs in reserve.



Mike DeFea

Natural Resources Engineer
DENR, Water Rights Program

Date report completed: June 20, 2007

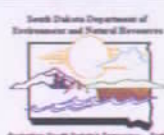
City of Lake Norden
PO Box 213
Lake Norden, SD 57248-0213
785-3602

Water Permit No. 6542-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
June 14, 2007



0 1,200 2,400 4,800 Feet

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6542-3

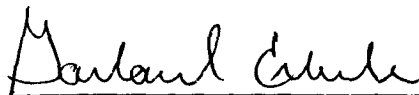
(1) City of Lake Norden, PO Box 213, Lake Norden SD 57248 made Application No. 6542-3, October 14, 2004 for a water permit to divert 0.60 cubic feet of water per second (262 acre-feet annually) from groundwater (one well), Hamlin County, South Dakota for municipal use purposes. Permit No. 6542-3, with a priority date of May 10, 2001 (established by Future Use Permit No. 6261-3) was approved December 27, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 27, 2009 and for the application to beneficial use of water on or before December 27, 2013.

(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 Water Right No. 6542-3 is issued a license, bearing a priority date of May 10, 2001 (established by Future Use Permit No. 6261-3) to appropriate 0.60 cubic feet of water per second (262 acre-feet annually) from groundwater (one well) for municipal use purposes.

The diversion point is located: 25 feet south and 1,450 feet east of the northwest corner of Section 17-T113N-R53W (NE ¼ NW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6542-3 including the following now applicable 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 City of Lake Norden shall report to the Chief Engineer annually the amount of water withdrawn each year from the Brookings Management Unit of the Big Sioux Aquifer.



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

OCT 17 2007

date





OCT 17 2007

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

6542-3

City of Lake Norden
Delores Kangas, Finance Officer
PO Box 213
Lake Norden SD 57248

Dear Ms. Kangas:

Enclosed is Water License No. 6542-3. This is the final water right document completing the city's process of obtaining a Water Right.

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. 6542-3, 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 the city has 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