

WATER PERMIT NO. 7123-3

Name of Applicant: **Harrisburg School District**

Address: **PO Box 187, Harrisburg SD 57032** Phone: **605 743-2567**

Amount of Water Claimed: **0.14 cfs** Total Acres: **30 acres**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation** County: **Lincoln**

Type of Waste Disposal System: **NA**

Location:

PRIORITY Date Received: **4-2-09**

Application/License Fee: **\$200**

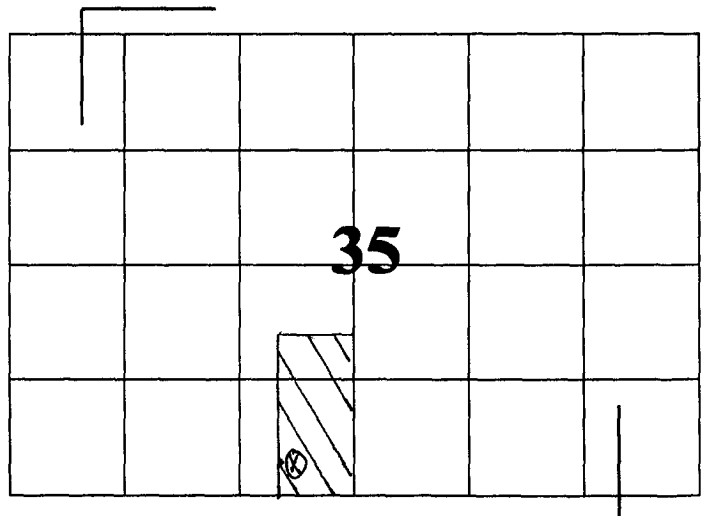
Corrected Application Received: **4-6-09**

Period of Annual Use: **May 1 – October 31**

Remarks: **irrigaton of the high school athletic complex**

Diversion Point: **SE ¼ SW ¼ Sec 35-T100N-R50W**

Land to be Irrigated: **E ½ SW ¼ Sec 35-T100N-R50W**



Depth of Well: **285 feet deep**

Well Driller: **Dave Putzke Well Drilling**

Remarks:

Type of Map: **plat**

Prepared by: **Paul J Korn, PE**

Reviewed and the Number Assigned on: **4-7-09**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>7123-3</u>	(office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Sioux Valley News, Canton</u>	

RECEIVED
APR - 2 2009
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

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

- Name of Applicant Harrisburg School District (check one) ☒ Owner ☐ Tenant/lessee Phone 605-743-2567
Mailing Address P O Box 187, Harrisburg State SD 57032
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.14 *CFS or 65 **GPM ***AF Total Acreage 30 A.
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply well on site
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Lincoln
Tract #1 of Slack High School addition, SW 1/4 of section 35,
Township 100N, R50W, of 5th PM, city of Harrisburg, Lincoln County, SD (SE 1/4 SW 1/4)
- County or counties where water will be used Lincoln May 1 - Oct 31
- Annual period during which water is to be used annually, during growing season, as needed
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>E 1/2 SW 1/4 Sec 35 - T100N - R50W</u>	<u>30 A.</u>		

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

High School Athletic complex,

STATE OF SOUTH DAKOTA) SS
County of Lincoln

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, Jason Crain, 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 [Signature]

Subscribed and sworn to before me this 1st day of April 2009

[Signature]
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 7123-3**

Date of first receipt of application April 2, 2009.

Date of return to applicant for corrections, amendments or changes April 3, 2009.

Date of receipt of corrected application April 6, 2009.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7123-3 to Harrisburg School District, PO Box 187, Harrisburg SD 57032 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. 7123-3 appropriates 0.14 cubic feet of water per second from one well to be completed into the Dakota Aquifer (approximately 285 feet deep) located in SE ¼ SW ¼ Section 35 to irrigate 30 acres of the high school athletic complex located in the E ½ SW ¼ Section 35; all in T100N-R50W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – October 31.
3. The date from which applicant may claim right is April 2, 2009.
4. The date of approval of Permit No. 7123-3 is June 1, 2009.
5. One-fifth of the construction is to be completed on or before December 1, 2011.
6. All construction is to be completed on or before June 1, 2014.
7. Water is to be put to beneficial use on or before June 1, 2018.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under 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. 7123-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

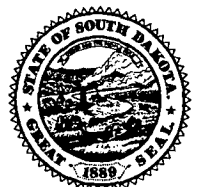
By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

JUN 04 2009

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 9" Depth 285
- b) Casing Type Plastic Diameter 5" Thickness SDR 17[#]
- c) Screen Type Plastic Diameter 5" Thickness SDR 17[#]
- d) Gravel Pack 0-pack Length of Gravel Pack 40'
- e) Depth to Top of Water Bearing Material 253'
- f) Depth to Water (ground surface to water level) 85'
- g) Distance to nearest existing domestic well:
- On applicants property N/A On property owned by others N/A

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

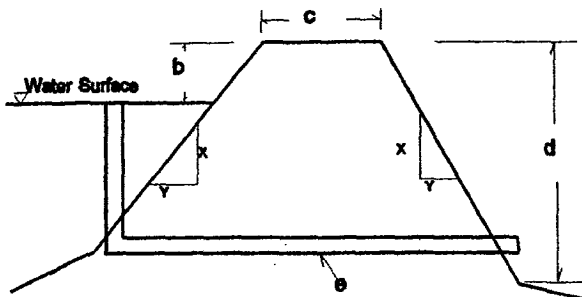
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

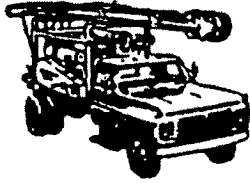
4. Water Storage Dams

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



Dave Putzke Well Drilling & Repair, Inc.

1408 South Deerberry Trail
Sioux Falls, SD 57106
361-9333

HARRISBURG SCHOOL

TEST HOLE

0 - 2 Ft	Top Soil
2 - 70 Ft	Yellow Clay
70 - 102 Ft	Fine Sand
102 - 120 Ft	Coarse Sand & Gravel (Cemented)
120 - 253 Ft	Blue Clay
253 - 285 Ft	Sandstone
285 Ft ---	Granite

10240

Pierre
Ken Miller
Gry Green wa

Dave Putzke, President
DAVE PUTZKE WELL DRILLING & REPAIR, INC.



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/2, 20 09

RECEIVED OF Const Mngmt Prof (Harrisburg HS) 101 N Main Ave # 201 Sioux Falls, SD
57104

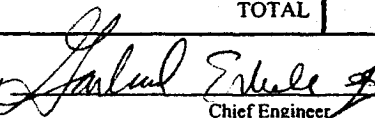
The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>7123-3</u> to Appropriate Water, to construct and to put water to beneficial use	150	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>7123-3</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	200 00

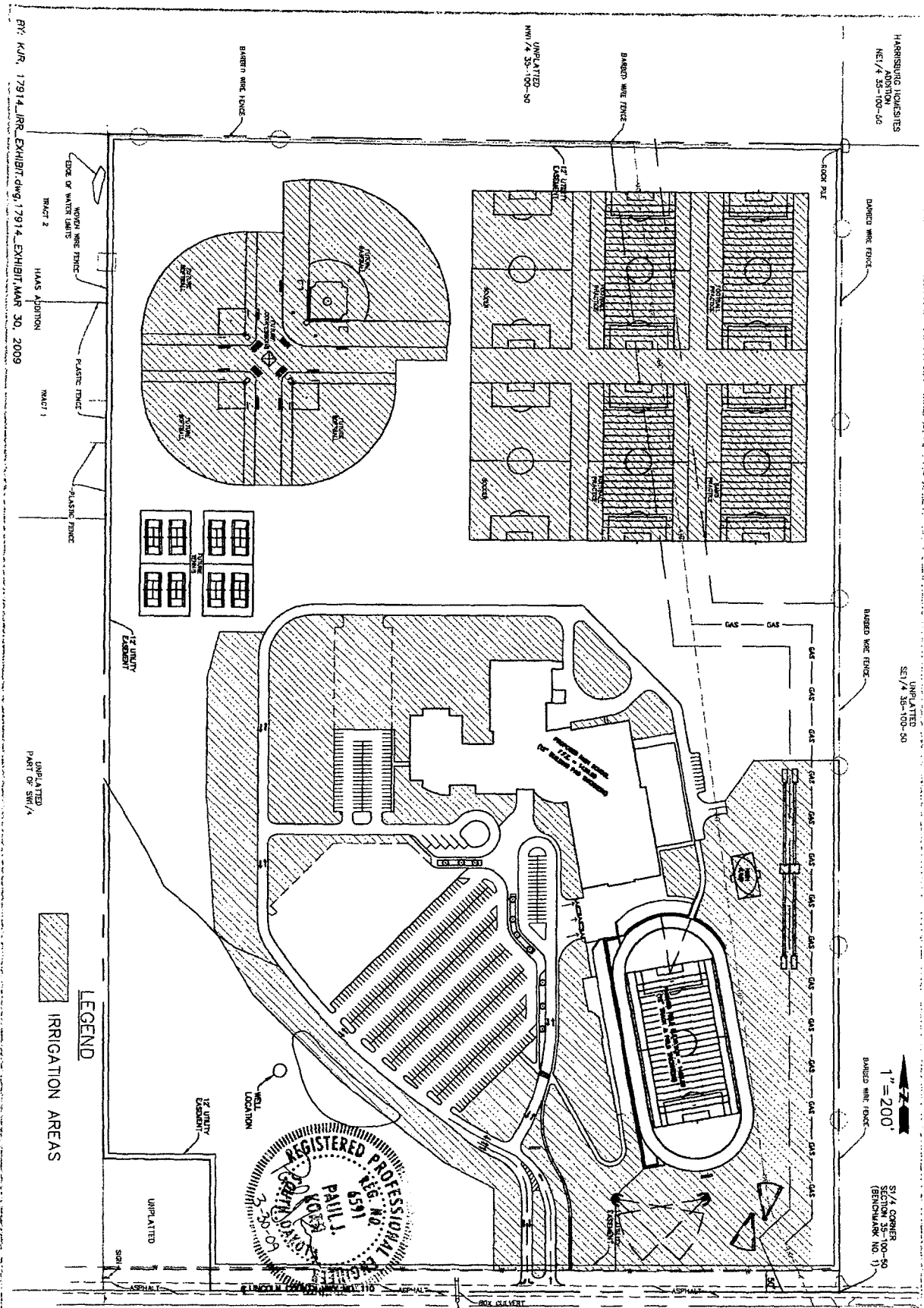
No.

04104

By


Chief Engineer

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WATER RIGHTS
PROGRAM

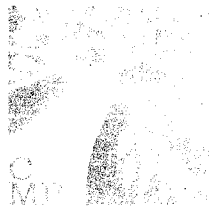


PROJECT NO.: 17914
DRAWN BY: HA
CHECKED BY: KJR
APPROVED BY: PAK
REVISION DATE:
ORIGINATOR COMMENTS:

HARRISBURG HIGH SCHOOL
IRRIGATION EXHIBIT

Sayre Associates
218 S. DuRoi Avenue • Sioux Falls, SD 57104
Phone: (605) 332-7211 • Fax: (605) 332-7222

Engineering Solutions



CONSTRUCTION
MANAGEMENT PROFESSIONALS

RECEIVED

APR - 2 2009

WATER RIGHTS
PROGRAM

LETTER OF TRANSMITTAL

Date: 4/1/09

No. 28

Project: Harrisburg High School

To: Dept of Environment & Natural
Resources, Water Rights Program

Re: Application for Water Permit for
Irrigation

Joe Foss Building

523 East Capitol

Pierre, SD 57501-3181

Copies	Description	Dated
1	Application for Permit to Appropriate Water for Irrigation	

These are transmitted as checked below:

☒ For Approval	☐ Approved as submitted	☐ Resubmit	Copies for approval
☐ For your use	☐ Approved as noted	☐ Submit	Copies for distribution
☐ As requested	☐ Returned for correction	☐ Return	Corrected prints
☐ Review & Comment			

Remarks:

Enclosed is the application for a permit to appropriate water for irrigation.

Please do not hesitate to call if you have any questions or need additional information; I can be reached at 605.310.3821.

Thank you.

Copy to: Sorin Hlihor

Signed:

By: Joann Messersmith



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

April 3, 2009

Joann Messersmith
Construction Management Professionals
122 S Phillips Ave
Ste 220
Sioux Falls SD 57104

RE: Harrisburg School District

Dear Ms. Messersmith:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation at the Harrisburg School District. In order to complete the application the following is required.

- Please complete Item No. 2 of the application, amount of water claimed.

State Statutes limit diversions to 1 cubic foot of water per second (cfs) for each 70 acres irrigated. This would mean the permit holder is allowed approximately 0.43 cfs or 193 gpm to irrigate 30 acres. We understand that in order to accommodate certain irrigation methods, a greater diversion rate is required. Please justify in writing if requesting a diversion rate greater than the statutory limit (please explain diversion rate requirement for the project).

- From the map submitted with the application, it appears that the 30 acres to be irrigated will be located in portions of the E ½ SW ¼ Section 35-T100N-R50W. Do you agree?
- If available, please submit a well log or test hole log signed by a licensed South Dakota well driller.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

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

enclosure

Schlaak, Karen

From: Joann Messersmith [joann@cmpna.com]
Sent: Monday, April 06, 2009 3:12 PM
To: Schlaak, Karen
Cc: Jason Crain
Subject: Harrisburg School District's application for permit to appropriate water

Thank you for your letter concerning the information needed to complete the permit.

In regards to question number two, 65 gallons per minute is being claimed.

Yes, the legal description as you have it appears correct.

The test hole report is attached.

If you need any other information to complete this process, please let me know.

Thank you for your help.

--

Joann Messersmith
Construction Management Professionals

122 S Phillips Ave, Suite 220
Sioux Falls, SD 57104
605.310.3821 c
888.450.2496 f
Joann@CMPna.com



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7123-3, Harrisburg School District**

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. 7123-3, Harrisburg School District, c/o Superintendent Jim Holbeck, PO Box 187, Harrisburg SD 57032.

The Chief Engineer is recommending APPROVAL of Application No. 7123-3 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. 7123-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
May 5, 2009

NOTE: An important consideration in developing an irrigation project is assessing the compatibility of the soils with the quality of the water to be used for irrigation. The staff report on this application indicates that the Dakota Formation may not of poor quality for irrigation use. Reduced turf production and damage to the soil structure may occur without proper irrigation management. A soil/water analysis and implementation of an irrigation management plan may prove valuable in successfully developing this irrigation project.

REPORT ON WATER PERMIT APPLICATION NO. 7123-3
For the Harrisburg School District
April 21, 2009

Application No. 7123-3 proposes to appropriate 0.145 cfs (65 gpm) from one well approximately 285 feet deep located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of section 35 to irrigate 30 acres of the high school athletic complex located in the E $\frac{1}{2}$ SW $\frac{1}{4}$ of section 35; all in T100N R50W in Lincoln County.

AQUIFER – DAKOTA FORMATION (DKOT)

The Dakota Formation consists of fine to coarse-grained sandstone with interbedded shale in Lincoln County (Niehus, 1994). The aquifer is under artesian conditions in this area. The Dakota Formation extends into Iowa to the east, Turner and Clay Counties to the west and disappears to the north in the subsurface. Geologically in the subsurface in the Harrisburg area the Sioux Quartzite is the basal bedrock formation and the Dakota Formation lies directly upon the quartzite. At some locations a formation called the Sioux Quartzite Wash overlies the quartzite and in all likelihood is also hydraulically connected to either or both the Dakota Formation and the Sioux Quartzite aquifers. Ground water movement is from northwest to southeast with a steeply dipping gradient to the southeast from the quartzite subsurface high to the north (Iles, 1984). This indicates recharge to the Dakota aquifer probably originates from the quartzite or possibly outwash aquifers lying on or above the quartzite surface. The Dakota aquifer underlies 935 square miles in Lincoln and Union Counties and contains an estimated 19.4 million acre-feet of water in storage (Niehus, 1994). Since this application is located very near the northern border or extent of the aquifer the hydrologic specifics of site will be determined as water is developed.

A test well log filed with the application by Putzke Drilling indicates sandstone from 253 feet to 285 feet with quartzite at 285 feet below land surface. No testing or water level information was filed with this log. However, the Water Rights Program does monitor an observation well LN-79I located about one-half mile east of this application. The log for this test well indicates sandstone (Dakota Formation) from 309 to 351 with quartzite at 351 feet. These logs are in fairly good agreement and there are other water bearing formation above the sandstone. The observation well has a static water level of about 75 feet below land surface and should reflect both the water level and pumping effects of this proposed well for the school district.

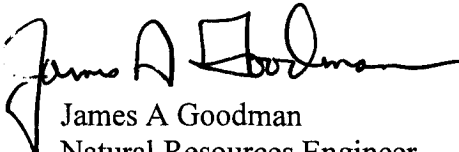
A hydrograph for observation well LN-79I indicates that recharge does occur. In general water levels have been rising at this site since the well was installed. Two other observation wells LN-81K located about three miles east of this site and completed into the Dakota Formation (449 to 543 feet depth) and LN-81J located about two miles southwest of this site and completed into quartzite wash (292 to 301 feet depth) also show water level data that matches well with LN-79I. Hydrographs for these three observation wells are included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2009).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is one nearby Water Permit No. 6595-3 (213 feet deep well, 0.33 cfs, irrigation of 15 acres). This well(s) is located about one mile west of this proposed application and appears to be completed into the same water source. Interference may occur however the observation wells do not indicate that pumping has affected water levels. Until development is completed this effect can not be fully evaluated however the information available would indicate interference should not be adverse.

CONCLUSIONS

1. Water is available from the Dakota Formation.
2. The aquifer is under artesian conditions at this site. Drawdown will occur however this is not expected to adversely affect water availability from the aquifer.
3. This well must be constructed in accordance with SD Well Construction Standards.
4. The water chemistry of observation well LN-79I indicates the water may be of poor quality for irrigation use. The applicant should test both the water quality and the well capacity at this site to determine suitability for irrigation.



James A Goodman
Natural Resources Engineer

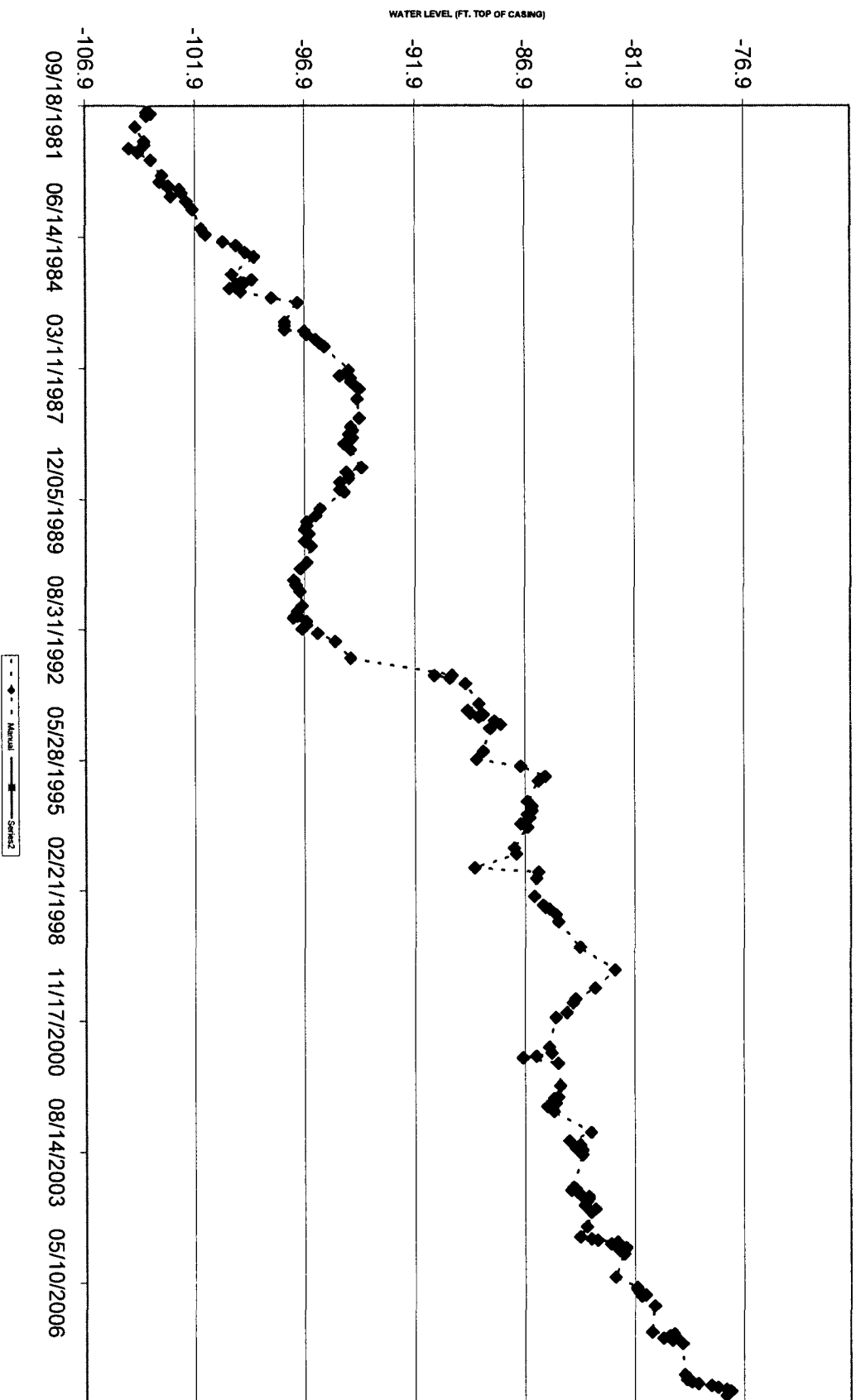
BIBLIOGRAPHY

Iles, D.L., 1984, Pleistocene Recharge to Dakota Formation in Lincoln County, South Dakota, in Geohydrology of the Dakota Aquifer, Proceedings of the First C.V. Theis Conferences on Geohydrology, NWWA, 500 W. Wilson Bridge Road, Worthington, Ohio, 43085.

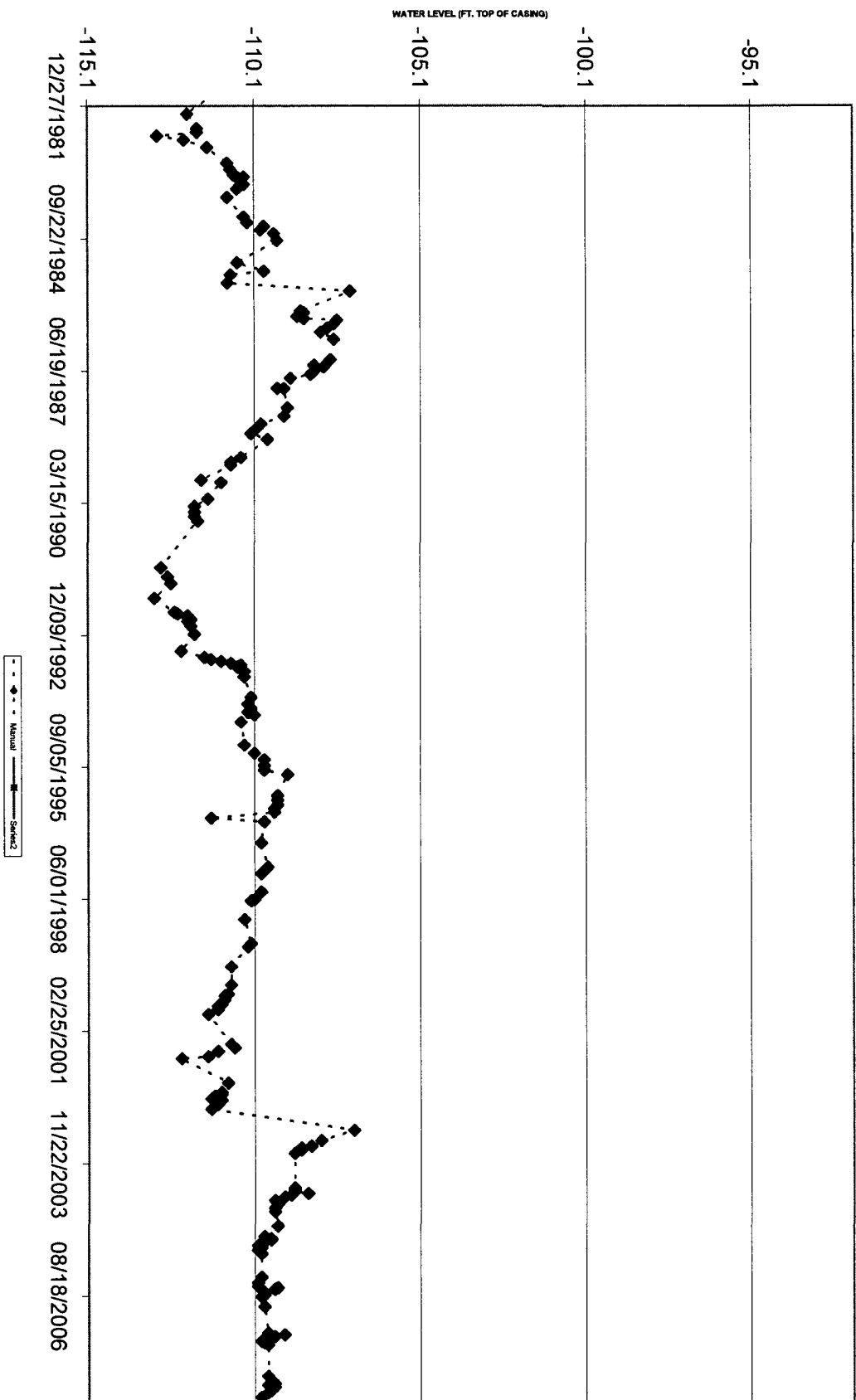
Niehus, C.A., 1994, Water Resources of Lincoln and Union Counties, South Dakota, Water Resources Investigations Report 93-4195, USGS, Rapid City, SD, 57702.

Water Rights, 2009, Unpublished Observation Well Data for Lincoln County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

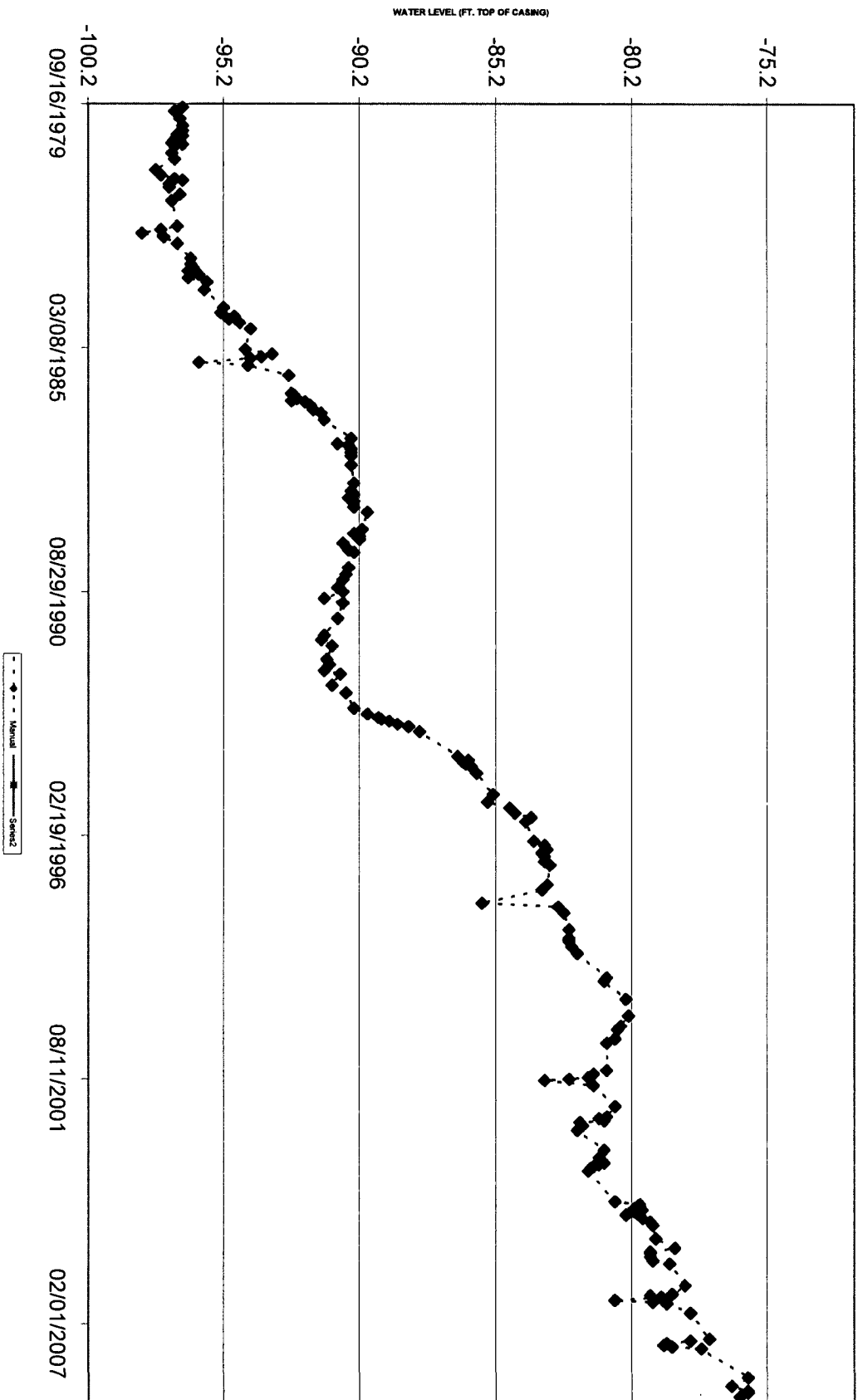
WATER RIGHTS' OBSERVATION WELL LN-81J



**WATER RIGHTS' OBSERVATION WELL
LN-81K**



**WATER RIGHTS' OBSERVATION WELL
LN-791**



Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

RECEIVED

JUN - 1 2009

WATER RIGHTS
PROGRAM

ANDY WILCOX

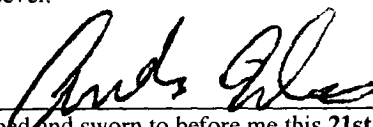
being first duly sworn on his oath says; that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that he is and during all of said time was publisher of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

Notice of Application No. 7123-3

a printed copy of which is hereto attached, was printed and published in said newspaper for **TWO** successive week(s) upon the following dates, to-wit:

May 14, 2009
May 21, 2009

that the full amount of the fees charged for publishing the same to-wit: the sum of **\$38.34** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.


Subscribed and sworn to before me this **21st** day of **May**,
2009.


Notary Public, South Dakota

(Seal)



My Commission Expires
12/9/2014

NOTICE OF APPLICATION

NOTICE OF APPLICATION NO. 7123-3 TO APPROPRIATE WATER

Notice is given that the Harrisburg School District, c/o Jim Holbeck, Superintendent, PO Box 187, Harrisburg, SD 57032, has filed an application for a water permit to appropriate 0.14 cubic feet of water per second from one well to be completed into the Dakota Aquifer (approximately 285 feet deep) located in SE 1/4 SW 1/4 Section 35 to irrigate 30 acres of the high school athletic complex located in the E 1/2 SW 1/4 Section 35; all in T100NR50W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7123-3 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 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 June 1, 2009.

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 Environmental and Natural Resources.

Published in the Sioux Valley News on
May 14 and May 21, 2009.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

May 7, 2009

Sioux Valley News
PO Box 255
Canton SD 57013

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7123-3 to Appropriate Water to be published twice. Please publish the first notice on May 14, 2009 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 Harrisburg School District, c/o Jim Holbeck, PO Box 187, Harrisburg SD 57032 (Ph # 605-743-2567).

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. 7123-3

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

Date _____

We are in receipt of your letter of May 7, 2009 enclosing Notice to Appropriate Water by Application No. 7123-3 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.

May 7, 2009

Harrisburg School District
c/o Jim Holbeck
PO Box 187
Harrisburg SD 57032

Dear Mr. Holbeck:

Water Permit Application No. 7123-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Sioux Valley News printed at Canton SD (Ph # 605-764-2000). 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 Notices 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

cc: Joann Messersmith, 122 S Phillips Ave # 220, Sioux Falls SD 57104

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 May 14, 2009 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7123-3 to Appropriate Water

Notice is given that the Harrisburg School District, c/o Jim Holbeck, Superintendent, PO Box 187, Harrisburg SD 57032 has filed an application for a water permit to appropriate 0.14 cubic feet of water per second from one well to be completed into the Dakota Aquifer (approximately 285 feet deep) located in SE ¼ SW ¼ Section 35 to irrigate 30 acres of the high school athletic complex located in the E ½ SW ¼ Section 35; all in T100N-R50W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7123-3 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 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 June 1, 2009.

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

JUN 04 2009

Harrisburg School District
Jim Holbeck, Superintendent
PO Box 187
Harrisburg SD 57032

Dear Mr. Holbeck:

Enclosed is Water Permit No. 7123-3 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,

A handwritten signature in black ink that reads "Garland Erbele".

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

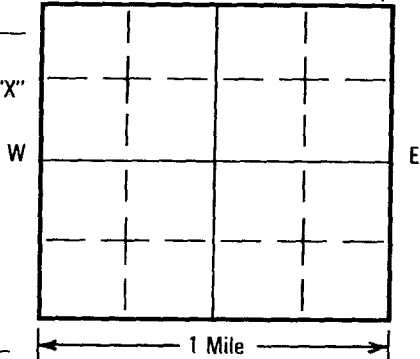
enclosures

c: Joann Messersmith, Construction Management Professionals

SOUTH DAKOTA WATER WELL COMPLETION REPORT

7123-3
07-92Location SE 1/4 SW 1/4 Sec 35 Twp 100N Rg 50W
County Lincoln North

Please mark well location with an "X"



Well Completion Date

5-26-09

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
200 LB/FT	5 IN	0 FT	280 FT	8 3/4 IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
Mudwell OF	14	_____ lb./gal	0 ft	240 ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure _____

SCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 5 IN Length 25 FEETMaterial PlasticSlot Size 25 Set From 255 Feet to 280 FeetOther information 0-PackWAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

YES, How: 5 gallons ofNO, Why Not? ChlorinePumped

Laboratory sent to for water quality analysis

Well Owner: Harrisburg SchoolBusiness Name: PO Box 187Address: Harrisburg 57032

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
yellow clay	2	70
Cement Gravel	70	120
Blue Clay	120	253
Sandstone	253	280
Granite	280	

STATIC WATER LEVEL 73 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: AIR
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

160' u/ AIR 50 gpm
Set Pump 200' - 7 1/2 HP
75 gpm.
This well was drilled under license # 439

And this report is true and accurate.

Drilling firm Dave Putzke well Drilling + repair Inc

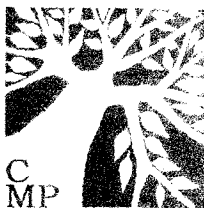
Signature of License Representative:

Dave Putzke

Signature of Well Owner or Equitable Property Holder:

Date:

 RECEIVED
 JUL - 1 2009
 WATER RIGHTS
 PROGRAM



CONSTRUCTION
MANAGEMENT PROFESSIONALS

RECEIVED

SEP - 4 2009

WATER RIGHTS
PROGRAM

LETTER OF TRANSMITTAL

Date: 9/2/09

No. 41

Project: Harrisburg High School

Re: Form 10

To: Water Rights Division

Joe Foss Building

523 East Capitol

Pierre, SD 57501

Copies	Description	Dated
1	Form 10	9/1/09

These are transmitted as checked below:

☐ For Approval	☐ Approved as submitted	☐ Resubmit	Copies for approval
☐ For your use	☐ Approved as noted	☐ Submit	Copies for distribution
☒ As requested	☐ Returned for correction	☐ Return	Corrected prints
☐ Review & Comment			

Remarks:

Copy to: _____

Signed: _____

By: Joann Messersmith

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

Date 9-1-09

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

RECEIVED**SEP - 4 2009****WATER RIGHTS
PROGRAM**

FROM: Harrisburg School District
Mr Jim Holbeck, Superintendent
(name)
P O Box 187
(address)
Harrisburg SD 57033
(city, state, zip)

(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. 7123-3 states that the water use system is to be constructed by

6/1/2014
(date)

, and water is to be put to beneficial use by

6/1/2018
(date)

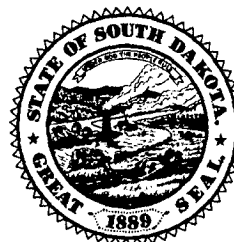
The water use system was completed on 8-28-09
(date)

Applying the water to beneficial use was completed on 8-28-09
(date)

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

Jim Holbeck
(signature)
Superintendent

7-98





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 8, 2009

7123-3

Jim Holbeck, Supt
Harrisburg School District
PO Box 187
Harrisburg SD 57032

Dear Mr. Holbeck:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that was submitted to let us know that you are completed with the water use system authorized by Water Permit No. 7123-3.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

McMath, Genny

From: Christianson, Devin E
Sent: Monday, November 07, 2011 12:19 PM
To: McMath, Genny
Subject: RE: Irrigation well pump

Genny -

I would estimate our deep of our pond is 10 ft. The length and width estimated would be 100 x 50. Yes, the pond is designed to catch all of our run off from the parking lot and driveways. When we have a decent rain (.5 - 1 inch or more) the pond fills up pretty much on its own. Also, when it reaches a certain level, it drains into our wetland. I hope this helps out more, sorry about the confusion. If you have any questions again, feel free to call me 605 -695 - 2791. Thanks

Devin Christianson
 Grounds Supervisor
 Harrisburg School District

From: McMath, Genny
Sent: Monday, November 07, 2011 9:27 AM
To: Christianson, Devin E
Subject: RE: Irrigation well pump

Devin,
 I went through the figures and of course, they prompt more questions. Based on the gallons below from the well, approximately 4 acre feet of water was pumped for the season. The questionnaire you submitted reflects 75.4 acre feet of water diverted from the pond. My question is, how big is the pond and does it catch surface runoff as well?

Genny

From: Christianson, Devin E
Sent: Friday, November 04, 2011 11:45 AM
To: McMath, Genny
Subject: Irrigation well pump

Genny:
 Here is a rough estimate on the amount of water pumped into our pond during the months of April - October 2011. If you need any other additional information please let me know, thanks and sorry for the confusion. I converted the amount of hours my pump ran per day into minutes.

Equation: hrs ran/day x 60 (min) x 75 (gals of water/min) x # of days ran/month = total gal/month

APRIL - 4 HRS X 60 X 75 X 5 DAYS = 90,000 GAL.
 MAY - 6 HRS X 60 X 75 X 10 = 270,000 GAL.
 JUNE - 6 HRS X 60 X 75 X 10 = 270,000 GAL.
 JULY - 6 HRS X 60 X 75 X 10 = 270,000 GAL.
 AUG. - 6 HRS X 60 X 75 X 10 = 270,000 GAL.
 SEPT. - 4 HRS X 60 X 75 X 5 = 90,000 GAL.
 OCT. - 2 HRS X 60 X 75 X 5 = 45,000 GAL

Devin Christianson

7123-3



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

January 20, 2023

NOTICE

TO: HARRISBURG SCHOOL DISTRICT, JIM HOLBECK, SUPT, PO BOX 187, HARRISBURG, SD 57032 0187

FROM: Ron Duvall, Water Rights Permitting Administrator
for Eric Gronlund, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2022 Irrigation Questionnaire(s)

Our records indicate your 2022 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7123-3. The request for the Questionnaire was dated October 21, 2022. The Water Management Board has directed owners of water permits who have not submitted the 2022 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7123-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **Wednesday, March 8, 2023 at 9:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7123-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office before the **March 8, 2023** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. **If you prefer, you can complete the questionnaire online at the following link: <https://danr.sd.gov/iq> using this password: WWDCDO**

NOTE: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

February 7, 2023

7123-3

Jim Holbeck, Supt
Harrisburg School District
PO Box 187
Harrisburg SD 57032-0187

Dear Sir:

I am writing to acknowledge receipt of your 2022 irrigation questionnaire.

You may disregard the January 20, 2023, "Notice" concerning reporting requirements for Water Permit No. 7123-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
605 773-3352
Genny.mcmath@state.sd.us

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7123-3

I have this day, April 11, 2023, made a thorough examination of the water use system constructed by Harrisburg School District; PO Box 187, Harrisburg, SD 57032 of Permit No. 7123-3, bearing the priority of April 2, 2009 authorizing the diversion of 0.14 cu. ft. per second of the waters of the Dakota Aquifer for irrigation purposes, in Lincoln County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Dave Putzke Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 280 feet
- 4) Well log is available Y If no, explain in comments

Casing:

- 1) Diameter 5 inches
- 2) Length 240 feet
- 3) Type Plastic

Screen:

- 1) Type Plastic
- 2) Length 25 feet
- 3) Static water level 73 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 75 GPM (Well Driller Information- 0.167 cfs)

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating 7 1/2 hp

B. Works used to transport water to place of use:

- 1) Type PVC
- 2) Size 6 inches
- 3) Length Unknown feet

C. Works used to apply water to beneficial use:

Buried sprinkler system

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in **good** condition with the point(s) of diversion located as follows: **WELL LOCATION**
From the SW corner Sec 35 T100N R50W, 535 ft N & 1320 ft E, Lat 43.43312 Long -96.72241 (SE ¼ SW ¼).
2. The works are capable of diverting and conveying to the place of use **0.28** cu. ft. per second of water which is to be used for **irrigation**. Water has been put to beneficial use to the maximum extent as follows:
legal description/acreage
NW ¼ SW ¼ - 5 acres
NE ¼ SW ¼ - 11.5 acres
SE ¼ SW ¼ - 13.5 acres

comprising a total of **30** acres of land and the license should be issued for **0.14** cfs
3. All structures, wells and lands on map N

If no, describe: **Irrigation areas are distributed throughout the school grounds and difficult to specifically identify.**

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

The High School property map was determined with the aid of FSA imagery and ArcMAPS software.

The mailing address and the telephone number in the permit materials are current.

Permit 7123-3 appropriates 0.14 cfs to irrigate the school grounds which was used to recommend the license flow above whereas the land area criterion of 1.0 cfs/70 acres produces a 0.286 cfs flow rate.

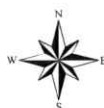
Recent Irrigation Questionnaires indicate the irrigation system is capable of delivering 125 gpm (0.278 cfs), which is much more than the permitted flow to irrigation sprinklers, where the water is pumped

from a holding pond through a 6-inch PVC pipe to the irrigation distribution systems. The original pump was replaced with a higher capacity pump in the past when it failed.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: April 21, 2023



0 0.075 0.15 0.3 0.45 0.6 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUL 24 2023

Harrisburg School District
c/o Tim Graft – Superintendent
PO Box 187
Harrisburg SD 57032

7123-3

Dear Mr. Graft:

Enclosed is Water License No. 7123-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, 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, State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

NOTE: The investigation found your irrigation system is capable of diverting 0.28 cubic feet of water per second (cfs) which is equivalent to approximately 116.7 gallons per minute. The rate of diversion authorized in Permit No. 7123-3 was 0.14 cfs (equivalent to 62.8 gpm). Diversion of water under this water license is limited to 0.14 cfs.

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7123-3**

(1) Harrisburg School District; PO Box 187, Harrisburg SD 57032, made Application No. 7123-3, April 2, 2009, for a water permit to divert 0.14 cubic feet of water per second from groundwater, one well (Dakota Aquifer), Lincoln County, South Dakota for irrigation of the high school athletic complex. Permit No. 7123-3, with a priority date of April 2, 2009, was approved June 1, 2009, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 1, 2014, and for the application to beneficial use of water on or before June 1, 2018.

(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 0.14 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 535 ft N & 1,320 ft E of the SW corner of Section 35, T100N, R50W (SE ¼ SW ¼)
(Latitude 43.43312 Longitude -96.72241)

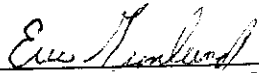
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 35, T100N, R50W
NW ¼ SW ¼ 5.0 acres
NE ¼ SW ¼ 11.5 acres
SE ¼ SW ¼ 13.5 acres
TOTAL: 30.0 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Harrisburg School District, the holder and/or owner of Water Right No. 7123-3 is issued a license to appropriate water, the right to use 0.14 cubic feet of water per second from groundwater, one well (Dakota Aquifer), with a priority date of April 2, 2009, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7123-3 and subject to the following qualifications:

1. The well approved under Permit No. 7123-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under Right shall control their 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. 7123-3 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 well was constructed in 2009 by Dave Putzke Well Drilling Inc.)*
3. This Right is approved subject to the irrigation questionnaire being submitted each year.


Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

JUL 24 2023
date

