

The Minnesota DNR has received a permit application for agricultural crop irrigation in Wadena County. More details are provided below. If you would like to review the application and provide comments, please click on the link below to navigate to our online permitting system. Comments are due by 06/02/2018.

Project Details:

Project Name: North Germany #3
Activity: Agricultural Crop Irrigation
Landowner: R D Offutt Company - Park Rapids
Agent: Minnesota Valley Irrigation, LLC, Tim Nolte
County: Wadena
Legal Description: T136N-R34W-S10 SESE
Water Resource: Groundwater: QBAA

The applicant (Mr. Tim Nolte) seeks authorization for appropriation of 45.0 MGY of water for agricultural irrigation on 138 acres for crop production at a maximum pumping rate of 800 gpm. The proposed appropriation source is confined aquifer well# 805422 with a screen set between 135 and 155 feet depths. The requested volume of water equates to an application rate of 12.01 inches per acre per year. Within 1.5 miles of the location of this well there are numerous wetlands (Types 1, 3, 5, 6, 7, and 8), a public watercourse (Redeye River), two public water basins (unnamed), a native plant community, a rare animal species (Greater Prairie Chicken), and a state wildlife management area (North Germany WMA). The combined thickness of the two overlaying confining layers at this well location is 66 feet, which should limit the interaction between pumping of the production well (confined aquifer) and water levels in surface water features (water table aquifer). There are 9 domestic well locations with an additional 8 likely domestic well locations within one mile surrounding this well. The potential for impacts to these features and likely domestic wells will be evaluated.

Elle Fielding - May 3, 2018

https://webapps11.dnr.state.mn.us/mpars/request_for_comment/reviewer_comments?reviewer_key=b6ed93de23c90097b6fb8253e9e57c31acfdb3de

If you have questions about this application or how to enter comments via the online system, please contact Robert Guthrie at robert.guthrie@state.mn.us, 218-732-8960.

*** DO NOT REPLY TO THIS EMAIL ***

From: NOREPLY.MPARS.dnr@state.mn.us
Subject: [MPARS] DNR Request for Comments - Agricultural Crop Irrigation - Wadena County - Application 2017-4237
Date: May 3, 2018 04:45:11 PM CDT
To: deana.malone@co.wadena.mn.us
CC:

The Minnesota DNR has received a permit application for agricultural crop irrigation in Wadena County. More details are provided below. If you would like to review the application and provide comments, please click on the link below to navigate to our online permitting system. Comments are due by 06/30/2018.

Project Details:

Project Name: North Germany #2
Activity: Agricultural Crop Irrigation
Landowner: R D Offutt Company - Park Rapids
Agent: Minnesota Valley Irrigation, LLC, Tim Nolte
County: Wadena
Legal Description: T136N-R34W-S10 SWSW
Water Resource: Groundwater: QBAA

The applicant (Mr. Tim Nolte) seeks authorization for appropriation of 32.6 MGY of water for agricultural irrigation on 100 acres for crop production at a maximum pumping rate of 700 gpm. The proposed appropriation source is confined aquifer well# 805421 with a screen set between 137 and 157 feet depths. The requested volume of water equates to an application rate of 12.01 inches per acre per year. Within 1.5 miles of the location of this well there are numerous wetlands (Types 1, 2, 3, 5, 6, 7, and 8), a public watercourse (Redeye River), two public water basins (unnamed), and a state wildlife management area (North Germany WMA). The combined thickness of the two overlying confining layers at this well location is 53 feet with an additional 4 feet of clay not within a confining layer. These clay layers should limit the interaction between pumping of the production well (confined aquifer) and water levels in surface water features (water table aquifer). There are 14 likely domestic well locations in the one mile surrounding this well. The potential for impacts to these features and likely domestic wells will be evaluated.

Elle Fielding - May 31, 2018

https://webapps11.dnr.state.mn.us/mpars/request_for_comment/reviewer_comments?reviewer_key=4a3cc85571ac0065c842e5b6ba0692fba5cf5799

If you have questions about this application or how to enter comments via the online system, please contact Robert Guthrie at robert.guthrie@state.mn.us, 218-732-8960.

*** DO NOT REPLY TO THIS EMAIL ***

From: NOREPLY.MPARS.dnr@state.mn.us

Subject: [MPARS] DNR Request for Comments - Agricultural Crop Irrigation - Wadena County - Application 2017-4236

Date: May 31, 2018 09:15:12 AM CDT

To: deana.malone@co.wadena.mn.us

CC:

The Minnesota DNR has received a permit application for agricultural crop irrigation in Wadena County. More details are provided below. If you would like to review the application and provide comments, please click on the link below to navigate to our online permitting system. Comments are due by 06/02/2018.

Project Details:

Project Name: North Germany #1
Activity: Agricultural Crop Irrigation
Landowner: R D Offutt Company - Park Rapids
Agent: Minnesota Valley Irrigation, LLC, Tim Nolte
County: Wadena
Legal Description: T136N-R34W-S4 NESW
Water Resource: Groundwater: QBAA

The applicant (Mr. Tim Nolte) seeks authorization for appropriation of 21.2 MGY for agricultural irrigation on 65 acres for crop production at a maximum pumping rate of 450 gpm. The proposed appropriation source is confined aquifer well# 805420 with a screen set between 105 and 140 feet depths. The requested volume of water equates to an application rate of 12.01 inches per acre per year. Within 1.5 miles of the location of this well there is an unnamed public waters basin, two public watercourses (Redeye River and Cat River), and numerous wetlands (Types 1, 2, 3, 4, 5, 6, 7, and 8). The combined thickness of the two overlaying confining layers at this well location is 39 feet, which should limit the interaction between pumping of the well (confined aquifer) and water levels in surface water features (water table aquifer). There are twelve likely domestic well locations in the one mile surrounding this well. The potential for impacts to these features and likely domestic wells will be evaluated.

Elle Fielding - May 3, 2018

https://webapps11.dnr.state.mn.us/mpars/request_for_comment/reviewer_comments?reviewer_key=b3f209433f93a62bd677b0c0ea3ca3004eedc9c5

If you have questions about this application or how to enter comments via the online system, please contact Robert Guthrie at robert.guthrie@state.mn.us, 218-732-8960.

*** DO NOT REPLY TO THIS EMAIL ***

From: NOREPLY.MPARS.dnr@state.mn.us

Subject: [MPARS] DNR Request for Comments - Agricultural Crop Irrigation - Wadena County - Application 2017-4235

Date: May 3, 2018 11:15:12 AM CDT

To: darren.newville@eot.mnswcd.org

CC:



Minnesota Department of Natural Resources
Division of Ecological & Water Resources
MNDNR PERMITTING AND REPORTING SYSTEM



Water Appropriation Permit Application

Reference Number: 2017-4235

Date Submitted to DNR: December 11, 2017 at 10:09 AM

Application Reference Name: North Germany #1

DNR Lead Hydrologist: Robert Guthrie
Area: Park Rapids
Email: robert.guthrie@state.mn.us
Phone: 218-732-8960

DNR Region: Northwest Region 1
Address: Minnesota Department of Natural Resources
110 7th St. W, Suite 301
Park Rapids, MN, 56470

Parties *(Individuals and Organizations associated with the permit application)*

Tim Nolte - Landowner or Government Unit

Address: 26914 181st Avenue, Sebeka, MN 56477
Phone: 218-837-5598
Email: noltelivestock@wcta.net

Jennifer VanOrsdel - Contact *(representing Minnesota Valley Irrigation, LLC)*
(submitted application)

Address: PO Box 509, Wadena, MN 56482
Phone: 218-631-9271
Email: rkempenich@minnvalley.com

Minnesota Valley Irrigation, LLC - Agent

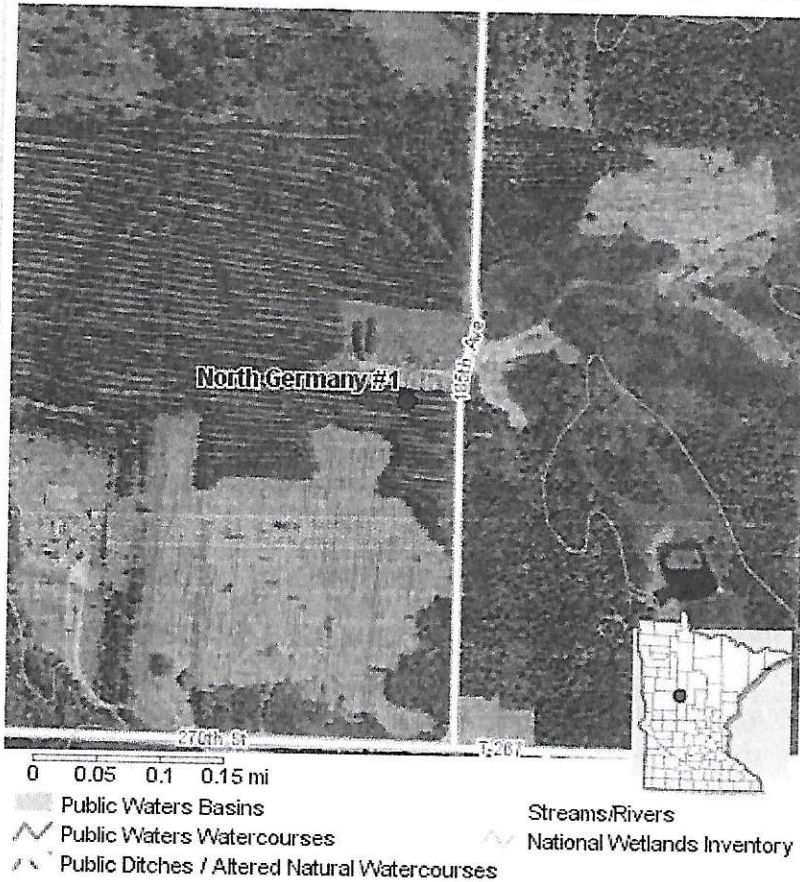
Address: 602 Ash Ave NE, PO Box 509, Wadena, MN 56482
Phone: 218-631-9271

Proposed Activity

Agricultural Crop Irrigation (*Volume requested: 21.18 mgy*)

Page 1
North Germany

Location and Water Resources



Installation Name: North Germany #1

Counties: Wadena

Watersheds: Redeye River

PLS: T136N-R34W-S4 NESW, T136N-R34W-S4 SESW

UTM: X:348401 Y:5164815

Water Resources: Groundwater

Appropriation Overview

- | | | |
|----|---|--|
| 1 | Please assign a reference/project name to this application. | North Germany #1 |
| 2 | What is the main type of work you are proposing to do? | Pump water for irrigation, water supply, manufacturing, dewatering, etc. |
| 3 | What is the major category of water use? | Irrigation |
| 4 | Will you use more than 10,000 gallons of water on any one day and/or 1 million gallons of water in a year? | Yes |
| 5 | What is the initial means by which the water will be obtained (select one)? Note: subsequent questions will determine whether water will also be pumped to and from a temporary storage site. | One (1) single well |
| 6 | Do you intend to pump the water to a temporary storage site before the intended use (e.g., to a pit, pond, wetland)? Do NOT mark yes for water trucks. | No |
| 7 | When did you or will you begin withdrawing water? | 05/01/2018 |
| 8 | Is this a one-time water appropriation expected to last 1 year or less (i.e., temporary but not seasonal)? | No |
| 9 | What alternative sources of water and withdrawal methods did you consider and why was the proposed action selected? | most economical and lowest impact |
| 10 | What conservation practices will you employ? (check all that apply) | Low Flow Irrigation System |

Appropriation Overview (Continued)

- | | | |
|----|---|-----------|
| 11 | Your local SWCD can assist with identifying conservation measures (see www.maswcd.org). Has a conservation plan, approved by your SWCD, been developed for the acreage you plan to irrigate? | No |
| 12 | Do you have any other comments about the proposed water withdrawal? (optional) | 2014-2085 |

2017-4235

Activity Detail

Activity: Agricultural Crop Irrigation

How much water are you requesting to use annually for this purpose in millions of gallons per year? (For example, enter 2,500,000 gallons as 2.5) 21.18 million gallons per year

I don't know how much water I need N/A

How many total acres will be irrigated? 65 acres

What type of crops will be irrigated (check all that apply)? Alfalfa, Corn, Soybeans

Installation

Installation Name: North Germany #1 (Well)

- | | | |
|----|--|---|
| 1 | What is the Minnesota unique well # for this well? | 805420 |
| 2 | What is the maximum casing diameter of this well (in inches)? Provide an estimate if the well has not yet been drilled. | 12 inches |
| 3 | What is the completed depth of this well (in feet)? Provide an estimate if the well has not yet been drilled. | 140 feet |
| 4 | What is the maximum pumping rate for this well (in gpm)? | 450 gallons per minute |
| 5 | What is the requested pumping rate for this well (in gpm)? | 450 gallons per minute |
| 6 | A method to measure water use within 10% accuracy is required for every well. What method will be used to measure water use at this well? For more details on this requirement, refer to http://files.dnr.state.mn.us/waters/watermgmt_section/appropriations/flowmeter.pdf . | Timing Device |
| 7 | Upload the <u>well and boring construction record</u> for this well. | Offutt_-_Park_Rapids_North_Germany__1_Drilling_Record.pdf |
| 8 | Upload the <u>pumping test data</u> for this well. | Offutt_-_Park_Rapids_North_Germany__1_Pumping_Test.pdf |
| 9 | Counties | Wadena |
| 10 | Watersheds | Redeye River |
| 11 | PLS | T136N-R34W-S4 NESW, T136N-R34W-S4 SESW |
| 12 | UTMX | X:348401 Y:5164815 |
| 13 | Water resources | Groundwater |

 Installation Attachment(s): Offutt_-_Park_Rapids_North_Germany__1_Drilling_Record.pdf
Offutt_-_Park_Rapids_North_Germany__1_Pumping_Test.pdf

Acknowledgment (By the party who submitted the permit application)

Acknowledgement (Continued)



I attest that:

- I own or control (by lease, license, or other permission) the land from which groundwater or surface water will be appropriated, AND
- There are no easements or other restrictions on the land that would prohibit the proposed activities from being authorized under a permit, AND
- I possess the authority to undertake the work described, or I am acting as a duly authorized agent, AND
- The information submitted and the statements made concerning this application are true and correct to the best of my knowledge.

PRINTED: 12/11/2017 at 10:09 AM

WELL OR BORING LOCATION
County Name
Wadena

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes, Chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

805420

Township Name N Germany Township No. 1810N Range No. 34W Section No. 4 Fraction SE 1/4 NE 1/4
GPS LOCATION: Latitude _____ degrees _____ minutes _____ seconds _____
Longitude _____ degrees _____ minutes _____ seconds _____

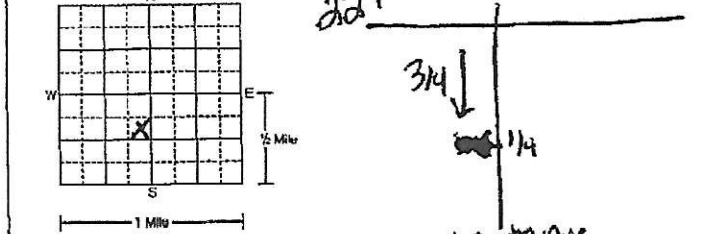
WELL/BORING DEPTH (completed) 140 ft. DATE WORK COMPLETED 9-4-14

House Number, Street Name, City, and ZIP Code of Well Location
none assigned

DRILLING METHOD
☐ Cable Tool ☒ Driven
☐ Auger ☒ Rotary
☐ Other

Show exact location of well/boring in section grid with "X". Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.

DRILLING FLUID SLX WELL HYDROFRACTURED? ☐ Yes ☒ No
From _____ ft. To _____ ft.



USE ☐ Domestic ☐ Monitoring ☐ Heating/Cooling
☐ Noncommunity PWS ☐ Environ. Bore Hole ☐ Industry/Commercial
☐ Community PWS ☒ Irrigation ☐ Remedial
☐ Elevator ☐ Dewatering ☐

PROPERTY OWNER'S NAME/COMPANY NAME
RDO Staples N Germany #1

CASING MATERIAL Drive Shoe? ☐ Yes ☒ No
☒ Steel ☐ Threaded ☐ Welded
☐ Plastic ☐

Property owner's mailing address if different than well location address indicated above.
1701 8th St NE
Staples, MN 56479

CASING Diameter 12 in. To 105 ft. Weight _____ lbs./ft. Specifications 17 1/2 in. 150
_____ in. To _____ ft. _____ lbs./ft. _____
_____ in. To _____ ft. _____ lbs./ft. _____

WELL OWNER'S NAME/COMPANY NAME

SCREEN YES OPEN HOLE
Make Johnson From 140 ft. To 150 ft.
Type SS Diam. _____
Slot/Gauze 40 Length _____
Set between 105 ft. and 140 ft. FITTINGS _____

Wellboring owner's mailing address if different than property owner's address indicated above.

STATIC WATER LEVEL Measured from Land Surface
4 ft. ☒ Below ☐ Above land surface Date measured 9-4-14

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
<u>TS</u>	<u>Blk</u>	<u>M</u>	<u>0</u>	<u>2</u>
<u>Snd</u>	<u>Bm</u>	<u>M</u>	<u>2</u>	<u>39</u>
<u>chy</u>	<u>Bm</u>	<u>M</u>	<u>39</u>	<u>102</u>
<u>Snd</u>	<u>Bm</u>	<u>M</u>	<u>102</u>	<u>88</u>
<u>chy</u>	<u>Gny</u>	<u>H</u>	<u>88</u>	<u>104</u>
<u>Fine Snd</u>	<u>Gny</u>	<u>S</u>	<u>104</u>	<u>140</u>
<u>chy</u>	<u>Gny</u>	<u>M</u>	<u>140</u>	<u>150</u>

PUMPING LEVEL (below land surface)
_____ ft. after _____ hrs. pumping _____ g.p.m.

REMARKS, ELEVATION, SOURCE OF DATA, etc.
Use a second sheet, if needed.

WELLHEAD COMPLETION
☐ Pitless/adaptor manufacturer _____ Model _____
☐ Casing protection _____ ☐ 12 in. above grade
☐ At-grade ☐ Well House ☐ Hand Pump

GROUTING INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
Material Bentonite From 0 To 50 ft. 110 ☐ Yds. ☒ Bags
Material _____ From _____ To _____ ft. _____ ☐ Yds. ☐ Bags
Material _____ From _____ To _____ ft. _____ ☐ Yds. ☐ Bags

Driven casing seal From _____ To _____ Bags

NEAREST KNOWN SOURCE OF CONTAMINATION
_____ feet _____ direction _____ type

Well disinfected upon completion? ☐ Yes ☒ No
PUMP

☐ Not installed Date installed _____
Manufacturer's name _____

Model Number _____ HP _____ Volts
Length of drop pipe _____ ft. Capacity _____ g.p.m.

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐
ABANDONED WELLS

Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No
VARIANCE

Was a variance granted from the MDH for this well? ☐ Yes ☒ No TN# _____

WELL CONTRACTOR CERTIFICATION
This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725.
The information contained in this report is true to the best of my knowledge.

Sharon M Traut Wells 1889
Licensee Business Name Lic. or Reg. No.

[Signature] 591 9-4-14
Certified Representative Signature Certified Rep. No. Date

Tracy Steve Rick Jash
Name of Officer

MINN. DEPT OF HEALTH COPY

805420

Name of Officer

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By reviewing township Directory maps for correct information before we publish the next issue, FHP will send you a free book of any county in any state printed by FHP for that year.

Contact our updating dept. at

800-685-7432-ext. 2605 or

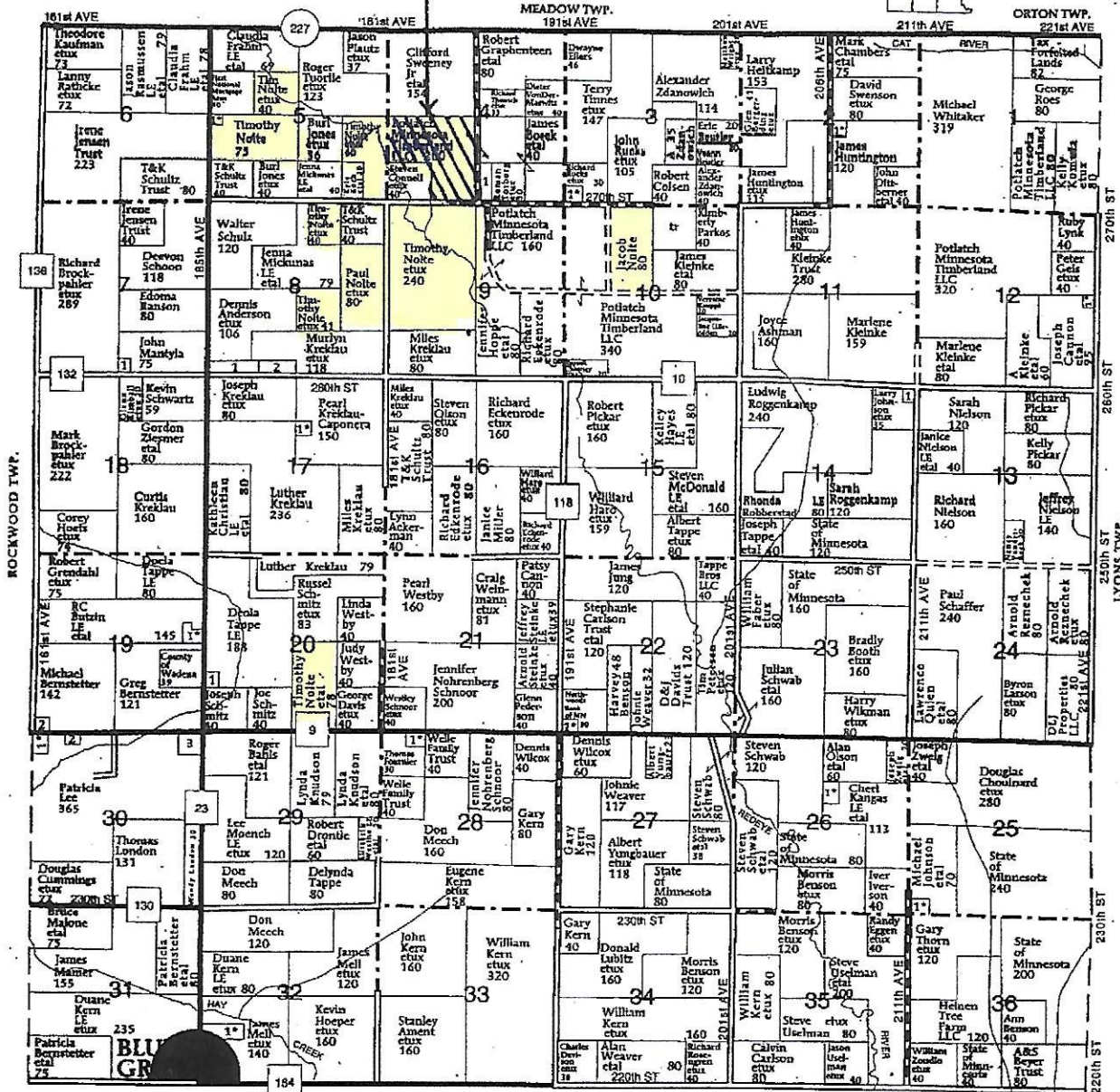
email: amanda.engebretson@farmandhomepublishers.com

Germany #1 100ac

T-136-N

NORTH GERMANY PLAT

R-34-W



NORTH GERMANY

TOWNSHIP

- SECTION 2**
1. Huntington LE, Karen 5
- SECTION 3**
1. Bos, Brian 10
- SECTION 4**
1. Evan Luth Zion Church 10

SECTION 5

1. Crosby, Carol 5
- SECTION 7**
1. Johnson, Michael 5
- SECTION 8**
1. Prieb, Jeanette 11
2. Kerklaue LE, Ardis 3
- SECTION 12**
1. Pickar, Dennis 5

SECTION 14

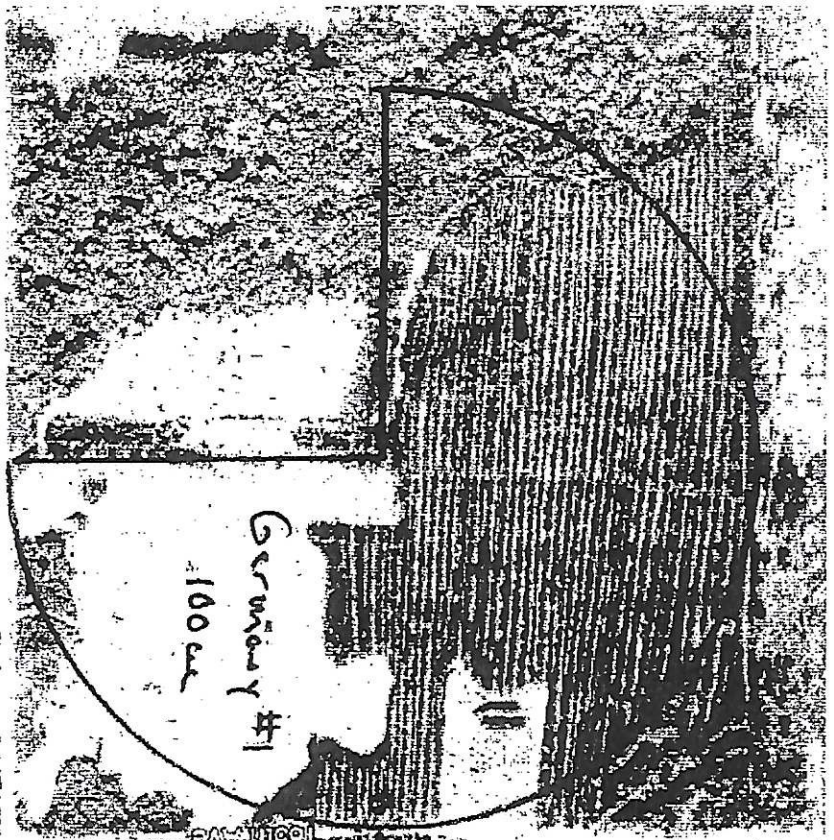
1. Lindula, Sharon 5
- SECTION 17**
1. Kerklaue-Caponea, Pearl 10
- SECTION 19**
1. Cornelius, Donald 10
2. Bleichner, John 5

SECTION 20

1. State of Minnesota 8
- SECTION 22**
1. Potter, Betty 10
- SECTION 25**
1. Anderson, Darrell 10
- SECTION 26**
1. Kangas, Scott 7

SECTION 28

1. Northway, Robert 10
- SECTION 30**
1. Schmith, William 6
2. Roloff, Mark 5
3. Larson, David 9
- SECTION 32**
1. Cochran, Raymond 15



18511111

18511111

imagery date: 08/20/10 1992

46 37 01.57 N 94 58 36.06 W elev 410 m

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Image USDA Farm Service Agency

Google

Eye Alt: 224 m



MINNESOTA VALLEY IRRIGATION, LLC

PO Box 509 • 602 Ash Avenue NE • Wadena, MN 56482
218-631-9271



#805420

RD Offutt Company/Park Rapids	Date: 9-23-14	Well Number: North Germany #1
Casing Diameter: 12"	Casing Above GL: 14"	Well Depth: 140'
Static (TOC): 2'	Operator: Buck	Test Pump Setting: 105'

Time	PWL FT.	Inches	Inch Head	GPM	Yield GPF
10:00	18	2		600	
10:15	20			600	
10:30	21	4		600	
10:45	22	2		600	
11:00	22	9		600	
11:15	23	3		600	
11:30	23	6		600	
11:45	23	8		600	
12:00	24			600	
12:15	24	2		600	
12:30	24	4		600	
12:45	24	5		600	
1:00	24	5		600	
1:15	24	6		600	
1:30	24	6		600	
1:45	24	7		600	
2:00	24	7		600	
2:15	24	7		600	



MINNESOTA VALLEY IRRIGATION, LLC

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218-631-9271



2:30	24	8		600	
2:45	24	9		600	
3:00	24	9		600	
3:15	25			600	
3:30	25			600	
3:45	25			600	
4:00	25	1		600	
4:15	25	1		600	
4:30	25	1		600	
4:45	25	1		600	
5:00PM	25	2		600	
9-24-14 9:00AM	28	3		600	
10:00	28	3		600	
11:00	28	3		600	
12:00	28	4		600	
1:00	28	4		600	
2:00	28	4		600	
3:00	28	4		600	
4:00	28	5		600	
5:00PM	28	5		600	
9-25-14 8:00AM	29	1		600	
9:00	29	1		600	

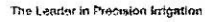


MINNESOTA VALLEY IRRIGATION, LLC

PO Box 509 • 602 Ash Avenue NE • Wadena, MN 56482
218-631-9271



10:00	29	1			
11:00	29	2			
12:00	29	2			
1:00	29	2			
2:00	29	2			
3:00	29	4			
4:00PM	29	4			
9-26-14 8:00AM	30				
9:00	30				
10:00	30				
RECOVERY					
10:01	17	2			
10:02	14	4			
10:03	13	7			
10:04	13	2			
10:05	13				
10:10	12	2			
10:15	11	5			
10:20	11	2			
10:25	10	9			
10:30	10	6			
10:40	10	3			



PO Box 509 • 602 Ash Avenue NE • Wadena, MN 56482
218-631-9271

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Minnesota Department of Natural Resources
Division of Ecological & Water Resources
MNDNR PERMITTING AND REPORTING SYSTEM

MPARS
MNDNR PERMITTING AND REPORTING SYSTEM
www.mndnr.gov/mpars
REVISION 04132015 APP ID 13556

Water Appropriation Permit Application

Reference Number: 2017-4237

Date Submitted to DNR: December 11, 2017 at 10:22 AM

Application Reference Name: North Germany #3

DNR Lead Hydrologist: Robert Guthrie
Area: Park Rapids
Email: robert.guthrie@state.mn.us
Phone: 218-732-8960

DNR Region: Northwest Region 1
Address: Minnesota Department of Natural Resources
110 7th St. W, Suite 301
Park Rapids, MN, 56470

Parties *(Individuals and Organizations associated with the permit application)*

Tim Nolte - Landowner or Government Unit

Address: 26914 181st Avenue, Sebeka, MN 56477
Phone: 218-837-5598
Email: noltelivestock@wcta.net

Jennifer VanOrsdel - Contact *(representing Minnesota Valley Irrigation, LLC)*
(submitted application)

Address: PO Box 509, Wadena, MN 56482
Phone: 218-631-9271
Email: rkempenich@minnvalley.com

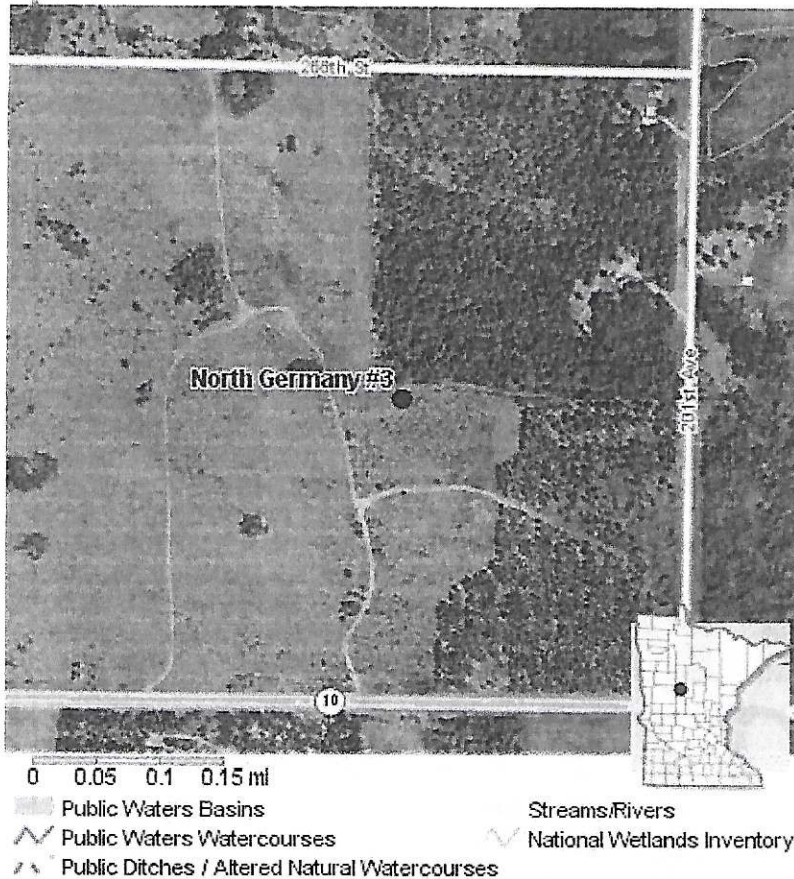
Minnesota Valley Irrigation, LLC - Agent

Address: 602 Ash Ave NE, PO Box 509, Wadena, MN 56482
Phone: 218-631-9271

Proposed Activity

Agricultural Crop Irrigation *(Volume requested: 44.96 mg)*

Location and Water Resources



Installation Name: North Germany #3

Counties: Wadena

Watersheds: Redeye River

PLS: T136N-R34W-S10 NESE, T136N-R34W-S10
NWSE, T136N-R34W-S10 SWSE,
T136N-R34W-S10 SESE

UTM: X:350509 Y:5163110

Water Resources: Groundwater

Appropriation Overview

1	Please assign a reference/project name to this application.	North Germany #3
2	What is the main type of work you are proposing to do?	Pump water for irrigation, water supply, manufacturing, dewatering, etc.
3	What is the major category of water use?	Irrigation
4	Will you use more than 10,000 gallons of water on any one day and/or 1 million gallons of water in a year?	Yes
5	What is the initial means by which the water will be obtained (select one)? Note: subsequent questions will determine whether water will also be pumped to and from a temporary storage site.	One (1) single well
6	Do you intend to pump the water to a temporary storage site before the intended use (e.g., to a pit, pond, wetland)? Do NOT mark yes for water trucks.	No
7	When did you or will you begin withdrawing water?	05/01/2017
8	Is this a one-time water appropriation expected to last 1 year or less (i.e., temporary but not seasonal)?	No
9	What alternative sources of water and withdrawal methods did you consider and why was the proposed action selected?	most economical / lowest impact
10	What conservation practices will you employ? (check all that apply)	Low Flow Irrigation System

Appropriation Overview (Continued)

11 Your local SWCD can assist with identifying conservation measures (see www.maswcd.org). Has a conservation plan, approved by your SWCD, been developed for the acreage you plan to irrigate?

No

2017-4237

12 Do you have any other comments about the proposed water withdrawal? (optional)

2014-2104

Activity Detail

Activity: Agricultural Crop Irrigation

How much water are you requesting to use annually for this purpose in millions of gallons per year? (For example, enter 2,500,000 gallons as 2.5) 44.96 million gallons per year

I don't know how much water I need N/A

How many total acres will be irrigated? 138 acres

What type of crops will be irrigated (check all that apply)? Alfalfa, Corn, Soybeans

Installation

Installation Name: North Germany #3 (Well)

1 What is the Minnesota unique well # for this well?

805422

2 What is the maximum casing diameter of this well (in inches)? Provide an estimate if the well has not yet been drilled.

12 inches

3 What is the completed depth of this well (in feet)? Provide an estimate if the well has not yet been drilled.

155 feet

4 What is the maximum pumping rate for this well (in gpm)?

800 gallons per minute

5 What is the requested pumping rate for this well (in gpm)?

800 gallons per minute

6 A method to measure water use within 10% accuracy is required for every well. What method will be used to measure water use at this well? For more details on this requirement, refer to http://files.dnr.state.mn.us/waters/watermgmt_section/appropriations/flowmeter.pdf.

Timing Device

7 Upload the well and boring construction record for this well.

RDO_PR_North_Germany__7_Drilling_Record.pdf

8 Upload the pumping test data for this well.

RDO_PR_North_Germany__7_Pumping_Test.pdf

9 Counties

Wadena

10 Watersheds

Redeye River

11 PLS


T136N-R34W-S10 NESE, T136N-R34W-S10 NWSE,
T136N-R34W-S10 SWSE, T136N-R34W-S10 SESE

12 UTMXY

X:350509 Y:5163110

13 Water resources

Groundwater

 **Installation Attachment(s):** RDO_PR_North_Germany__7_Drilling_Record.pdf
RDO_PR_North_Germany__7_Pumping_Test.pdf

Acknowledgment (By the party who submitted the permit application)

Acknowledgement (Continued)



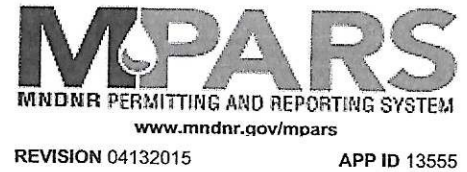
I attest that:

- I own or control (by lease, license, or other permission) the land from which groundwater or surface water will be appropriated, AND
- There are no easements or other restrictions on the land that would prohibit the proposed activities from being authorized under a permit, AND
- I possess the authority to undertake the work described, or I am acting as a duly authorized agent, AND
- The information submitted and the statements made concerning this application are true and correct to the best of my knowledge.

PRINTED: 12/11/2017 at 10:22 AM



Minnesota Department of Natural Resources
Division of Ecological & Water Resources
MNDNR PERMITTING AND REPORTING SYSTEM



Water Appropriation Permit Application

Reference Number: 2017-4236

Date Submitted to DNR: December 11, 2017 at 10:16 AM

Application Reference Name: North Germany #2

DNR Lead Hydrologist: Robert Guthrie

DNR Region: Northwest Region 1

Area: Park Rapids

Address: Minnesota Department of Natural Resources

Email: robert.guthrie@state.mn.us

110 7th St. W, Suite 301

Phone: 218-732-8960

Park Rapids, MN, 56470

Parties *(Individuals and Organizations associated with the permit application)*

Tim Nolte - Landowner or Government Unit

Address: 26914 181st Avenue, Sebeka, MN 56477

Phone: 218-837-5598

Email: noltellvestock@wcta.net

Jennifer VanOrsdel - Contact *(representing Minnesota Valley Irrigation, LLC)*
(submitted application)

Address: PO Box 509, Wadena, MN 56482

Phone: 218-631-9271

Email: rkempenich@minnvalley.com

Minnesota Valley Irrigation, LLC - Agent

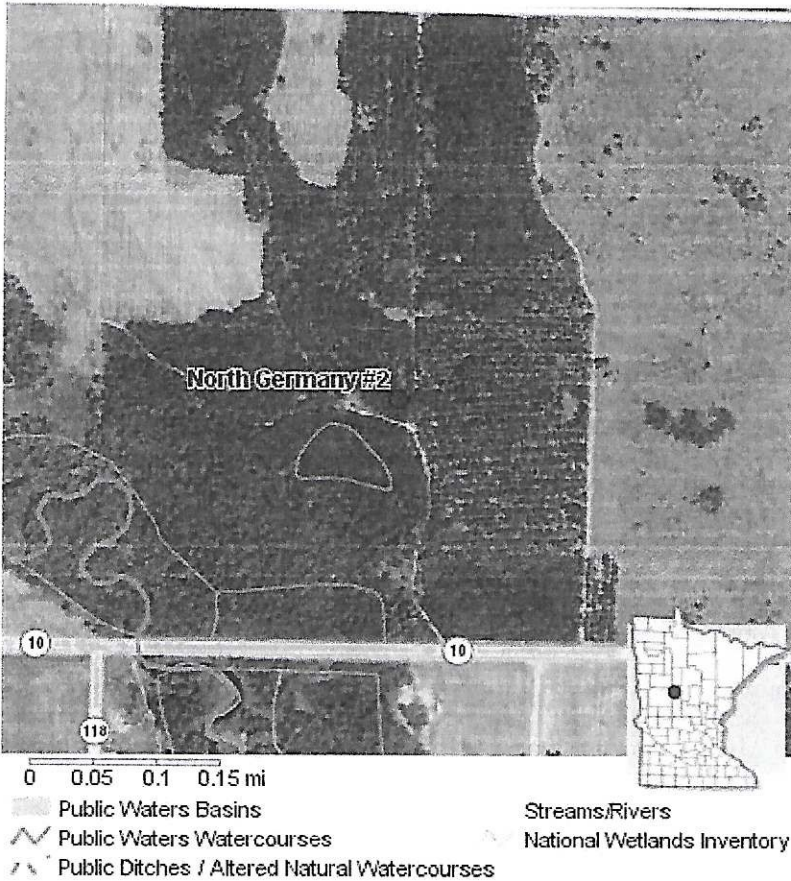
Address: 602 Ash Ave NE, PO Box 509, Wadena, MN 56482

Phone: 218-631-9271

Proposed Activity

Agricultural Crop Irrigation (*Volume requested: 32.58 mgy*)

Location and Water Resources



Installation Name: North Germany #2

Counties: Wadena

Watersheds: Redeye River

PLS: T136N-R34W-S10 SWSW, T136N-R34W-S10
SESW

UTM: X:349649 Y:5163050

Water Resources: Groundwater

Appropriation Overview

- 1 Please assign a reference/project name to this application.
- 2 What is the main type of work you are proposing to do?
- 3 What is the major category of water use?
- 4 Will you use more than 10,000 gallons of water on any one day and/or 1 million gallons of water in a year?
- 5 What is the initial means by which the water will be obtained (select one)? Note: subsequent questions will determine whether water will also be pumped to and from a temporary storage site.
- 6 Do you intend to pump the water to a temporary storage site before the intended use (e.g., to a pit, pond, wetland)? Do NOT mark yes for water trucks.
- 7 When did you or will you begin withdrawing water?
- 8 Is this a one-time water appropriation expected to last 1 year or less (i.e., temporary but not seasonal)?
- 9 What alternative sources of water and withdrawal methods did you consider and why was the proposed action selected?
- 10 What conservation practices will you employ? (check all that apply)

North Germany #2

Pump water for irrigation, water supply, manufacturing, dewatering, etc.

Irrigation

Yes

One (1) single well

No

05/01/2017

No

most economical / low impact

Low Flow Irrigation System

Appropriation Overview (Continued)

2017-4236

- | | | |
|----|---|-----------|
| 11 | Your local SWCD can assist with identifying conservation measures (see www.maswcd.org). Has a conservation plan, approved by your SWCD, been developed for the acreage you plan to irrigate? | No |
| 12 | Do you have any other comments about the proposed water withdrawal? (optional) | 2014-2098 |

Activity Detail

Activity: Agricultural Crop Irrigation

How much water are you requesting to use annually for this purpose in millions of gallons per year? (For example, enter 2,500,000 gallons as 2.5) 32.58 million gallons per year

I don't know how much water I need N/A

How many total acres will be irrigated? 100 acres

What type of crops will be irrigated (check all that apply)? Alfalfa, Corn, Soybeans

Installation

Installation Name: North Germany #2 (Well)

- | | | |
|----|--|---|
| 1 | What is the Minnesota unique well # for this well? | 805421 |
| 2 | What is the maximum casing diameter of this well (in inches)?
Provide an estimate if the well has not yet been drilled. | 12 inches |
| 3 | What is the completed depth of this well (in feet)? Provide an estimate if the well has not yet been drilled. | 157 feet |
| 4 | What is the maximum pumping rate for this well (in gpm)? | 700 gallons per minute |
| 5 | What is the requested pumping rate for this well (in gpm)? | 700 gallons per minute |
| 6 | A method to measure water use within 10% accuracy is required for every well. What method will be used to measure water use at this well? For more details on this requirement, refer to http://files.dnr.state.mn.us/waters/watermgmt_section/appropriations/flowmeter.pdf . | Timing Device |
| 7 | Upload the <u>well and boring construction record</u> for this well. | RDO_PR_North_Germany__6_Drilling_Record.pdf |
| 8 | Upload the <u>pumping test data</u> for this well. | RDO_PR_North_Germany__6_PumpingTest.pdf |
| 9 | Counties | Wadena |
| 10 | Watersheds | Redeye River |
| 11 | PLS | T136N-R34W-S10 SWSW, T136N-R34W-S10 SESW |
| 12 | UTMX | X:349649 Y:5163050 |
| 13 | Water resources | Groundwater |

 Installation Attachment(s): RDO_PR_North_Germany__6_Drilling_Record.pdf
RDO_PR_North_Germany__6_PumpingTest.pdf

Acknowledgment (By the party who submitted the permit application)

Acknowledgement (Continued)



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