

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 95-17753

Exam Date: 4/10/2020

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Sanders Irrigation District
- Owner of Record Correct? X Y N
- Address of Record Correct? Y N
- If No: Address

The Department's tax parcel data shows the property for the place of use is in the ownership of Jeffery Jackson Hunter and Rick D. White, and the property for the point of diversion is in the name of Louis G. Yiannikos. Sanders Irrigation District is an irrigation company that delivers water to various individual properties. All of these property owners are actual owners of the company. Therefore, there shouldn't be any significant ownership issues.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C108508

4. **SOURCE** TRIBUTARY

Coeur D Alene Lake

Spokane River

Method of Determination: GIS and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
95-7426	Coeur D Alene Lake	Municipal	License/Recommendation

Comments: Water right 95-7426 is a municipal right for Sanders Third Addition Water Association. I contacted the permit holder, and he confirmed that the property owners use water right Sanders Third Addition Water Association for the in-house use only.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
95-8796	Coeur D Alene Lake	Irrigation	License/Recommendation

Comments: Water right 95-8796 is also owned by Sanders Irrigation District, and it is diverted from the same point of diversion. It should be noted that the point of diversion for 95-8796 is listed as being Government Lot #1 (SE¼NW¼) and this permit does not list the Government Lot. The shape files show a slightly different location of the point of diversion from the point of diversion and the adjudication recommendation. Since both rights share the same point of diversion, it doesn't seem reasonable to have two separate legal descriptions. Since I can't change the recommendation, I am recommending that we correct the legal description of the point of diversion for this license to Government Lot 1 (SE¼NW¼) and the shape will be moved to location shown on the recommendation map. I don't feel an amendment is necessary, since the application clearly states that they share the same point of diversion and we are just correcting the records to match.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Lake Diversion	1		SE	NW	17	48N	4W	B.M.	KOOTENAI
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Lot data.

PLEASE NOTE: It should be noted that the point of diversion for 95-8796 is listed as being Government Lot #1 (SE $\frac{1}{4}$ NW $\frac{1}{4}$) and this permit does not list the Government Lot. The shape files show a slightly different location of the point of diversion from the point of diversion and the adjudication recommendation. Since both rights share the same point of diversion, it doesn't seem reasonable to have two separate legal descriptions. Since I can't change the recommendation, I am recommended that we correct the legal description of the point of diversion to Government Lot 1 (SE $\frac{1}{4}$ NW $\frac{1}{4}$). I don't feel an amendment is necessary, since the application clearly states that they share the same point of diversion and we are just correcting the records to match.

Change in POD? X Y N Amendment Required? Y X N**2. PLACE OF USE:** Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	4W	17								0.4									0.4
		Lot #								1									
Total Acres =																			0.4

Method of Determination: GIS and Tax Lot DataChange in POU? Y X N Amendment Required? Y X N Delivery System Diagram Attached. Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Lake Pump	Unknown	1.5	AY AA 4 INCH 25 GPM	Unknown	Unknown

*Code to correspond with No. on map and aerial photo

Please Note: The above information was taken from the application for permit. Therefore, I am assuming it is correct.

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

YES Additional Computation Sheets Attached

The application did provide adequate information to calculate a theoretical calculation. I used the contours to determine the lift, and added a standard of 50 psi as a standard pressure. The theoretical calculation was very close to the 23 gpm rating for this pump. The permit was issued based on a diversion rate of for 0.4 acres multiplied by 0.03 cfs/acre = 0.012 cfs authorized by Administrative Processing Memorandum #17.

Theoretical = $(1.5 \text{ Hp} \times 0.7 \times 8.8) / 60 \text{ ft lift} + (2.31 \times 50 \text{ psi}) = 0.052 \text{ cfs} / 448.8 = 24 \text{ gpm}$.
 Permit allowed = 0.01 cfs

Water right 95-8796 is limited to 0.06 cfs, and the recommendation is the same as what was recommended in the adjudication. Whereas the existing recommendation exceeds what appears to be the pump capacity, this permit should not add additional flow rate to the pump capacity. I am recommending 0.01 cfs as described in the permit for this right, and when this permit is combined with water right 95-9786 is should be limited to 0.06 cfs to prevent a combined rate in excess of the pump capacity.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.4 \text{ acres} \times 3 \text{ af/ac} = 1.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \text{ cfs} \times 246 \text{ days} \times 0.01 \text{ cfs} = 4.9 \text{ af.}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ af}$$

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? Y N

Method of Determination: Taxlot data and GIS

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The only significant issue is that the legal description of the point of diversion in the recommendation and the permit do not match. At this point it seems more reasonable to correct this permit instead of changing the existing recommendation. They should have the same legal description, since they use the same pump and system.

This permit was filed to add two new parcels to the place of use, because they couldn't add them under the adjudication recommendation. The adjudication recommendation was based off of an existing license, so recommending more than the license would be considered an enlargement of the system.

The water supplying the in-house use is not conditioned to be limited to in-house use, but the permit holder confirmed that the in-house supply is not used on the yards. It is unlikely that these rights would ever be transferred, so using the X31 condition should address this issue.

The permit required a fish screen. The permit holder stated in the proof of beneficial use form that a fish screen was not required. It is my experience that most surface water diversions do need a screen to prevent trash from damaging the pump. I contacted the permit holder by email to attain confirmation that a screen is actually installed. The permit holder responded by email on April 10, 2020, confirming that the fish screen has a 3/16 screen, which is less than the 1/4 inch screen.

Conditions X15, FO6, and 004 will be carried forward to licensing. Condition 1 (X15) will be modified to state that the fish screen shall be maintained. Condition R66 will be replaced with X31 to limit this permit to 0.01 cfs and 1.2 af, since this permit is less than an acre is size. I will also include an X 35 condition that limits the diversion rate of 0.06 cfs when 95-8796 and 95-17753 are combined. The X35 condition will not need to address the volume or the acre amounts, since those components are additive and not limited by a capacity.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.01 CFS	1.2 AFA
<u>Totals:</u>		0.01 CFS	1.2 AFA

Please Note: This is a surface water right, so no volume will be included on the water right license.

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name _____ Date _____

Reviewer Angela M. Gumm Date 4/14/2020

Field Exam Map:

The yellow border shows the irrigation place of use for this permit. The yellow dot shows the recommended point of diversion for the license and water right 95-8796. I included the permit point of diversion location in pink to show that it had been simply placed in the wrong location. The blue striped area is the place of use for water right 95-8796.



On Fri, Apr 10, 2020 at 12:48 AM Nelson, Dan <Dan.Nelson@idwr.idaho.gov> wrote:

Mr. Ortmann,

That is exactly what I needed. I will have my review done today, and send it to my supervisor for final review.

Thank you.

Dan Nelson

From: John Ortmann [<mailto:johnsortmann@gmail.com>]

Sent: Friday, April 10, 2020 12:44 PM

To: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>

Subject: Re: Permit 95-17753

To Dan Nelson,

I contacted the company that provided our 4" 1.5 HP pump and confirmed that the pump has an intake screen with 3/16" openings. We also placed the pump inside 6" PVC pipe with 1/4" holes. I hope this helps you.

John

On Fri, Apr 10, 2020 at 10:14 AM Nelson, Dan <Dan.Nelson@idwr.idaho.gov> wrote:

Hello Mr. Ortmann,

I have just about finished with my review, but I did find another issue that needs to be addressed. Condition #3 of your permit states the following:

A fish screen of 1/4 inch or smaller mesh shall be installed and maintained at the point of diversion.

You marked on your Proof of Beneficial Use form that no fish screen was required. This is incorrect. Most lake pumps have fish screens to prevent trash and fish from clogging up the pump system, so I think you do actually have a fish screen. I do need confirmation from you that the pump system does have a screen on the pump intake. Once I get this confirmation from you, I can move forward with processing.

Respectfully,

Daniel Nelson

Water Right Analyst 3

Idaho Department of Water Resources

Telephone (208) 287-4856

Fax (208) 287-6700 (attn: Dan Nelson)

From: John Ortmann [mailto:johnsortmann@gmail.com]
Sent: Friday, April 10, 2020 9:49 AM
To: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Subject: Re: Permit 95-17753

To Dan Nelson,

In response to your e-mail on April 9, 2020 please be advised that all parcels associated with Sanders Irrigation District use well water provided by Sanders Third Addition Water Association for water use inside their homes. Sanders Irrigation District water is used only for seasonal yard irrigation. I hope this answers your question.

Respectfully,

John Ortmann

On Thu, Apr 9, 2020 at 2:39 PM Nelson, Dan <Dan.Nelson@idwr.idaho.gov> wrote:

Dear Mr. Ortmann,

I have been asked to review this permit for licensing purposes. Due to the size of this permit, we should be able to license this permit without visiting the property to verify the use. In reviewing the records, I was not able to ascertain what the two parcels associated with this permit use for water inside their homes. I am assuming from Department records, that is either a personal well or Sanders Third Addition Water Association. Once I attain this information, I should be able to submit this permit to my supervisors for licensing purposes.

If you have any questions, please don't hesitate to contact me.

Respectfully,

Daniel Nelson
Water Right Analyst 3
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)