

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

A. GENERAL INFORMATION

Permit No: 95-7578

Exam Date: 3/17/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: Kim & Dianna Holte
 Owner of Record Correct? ☒ Yes ☐ No
 Address of Record Correct? ☒ Yes ☐ No
 If No: Address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: CO97990

4. **SOURCE****TRIBUTARY**

St. Joe River

Coeur d'Alene Lake

Method of Determination: Applicant submitted an aerial photo map that outlined POD & POU.

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that share POU. Water right 91-7118 shows a POU overlap on IDWR's map layer, however this is a groundwater irrigation right for property to the west of the St. Joe River.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that share POD.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
St. Joe River	9		SW	SW	31	46N	02E		Shoshone

Method of Determination: Legal Description in permit validated by PLS data and mapping.

Change in POD? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

2. **PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	02E	31											X	X					
													L9	L9					

Method of Determination: Map of property submitted by land owner identifies POU clearly. PLSS data through ArcMap match.

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ 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
St. Joe River	Unk	6	Unk	Unk	Unk

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

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: In-office field exam so theoretical not applicable.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

According to administrator memo #22, domestic use for 1 home is allowed a flow rate of 0.04 cfs

See the theoretical calculation sheet for a calculated measurement providing an average of 0.77cfs from 3 scenarios.

Measurement = 0.77 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad X 3.5 \quad} = \underline{\quad}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\quad X 214 X 1.9835 \quad} = \underline{\quad}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\quad}$$

2. Volume Calculations for Other Uses:

For Domestic use, Administrative Memo #22 allows for 1.2 af annually.

G. PURPOSE OF USEIrrigation ☐ Yes ☒ No # Stock 2 Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information provided by the permit owner has been provided with maps. Use is for an RV so there is no permanent building on the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 91-7578 authorized the use of 0.04 cfs from a stream for domestic water purposes. Based on the information provided in the water right file, this qualifies for an in-office field exam.

The application stated that the domestic use was for a RV. It is difficult to tell from the aerial photos what is exactly on the property due to thick trees. But the area does appear to be campgrounds along the banks of the St. Joe River. Water right 91-7118 shows a POU overlap on IDWR's map layer, however this is a groundwater irrigation right for property to the west of the St. Joe River.

Contact was made with Diana Holte in question to the beneficial use. I attempted to find out if they were using the water in the RV or was this strictly half acre irrigation and a confirmation of the fish screen. She responded to the email stating that they have not used water in the RV, but plan to do so for future use such as showers, etc. The stockwater use submitted by the Statement of Completion form will be covered by the domestic use since it is for 2 horses.

Theoretical calculations for flow were done to verify the ability to supply the requested water rate. 30% efficiency was used for a gas powered pump.

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>
Domestic	01/01-12/31	0.04	1.2
	<u>Totals</u>	0.04 cfs	1.2 af

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: < >

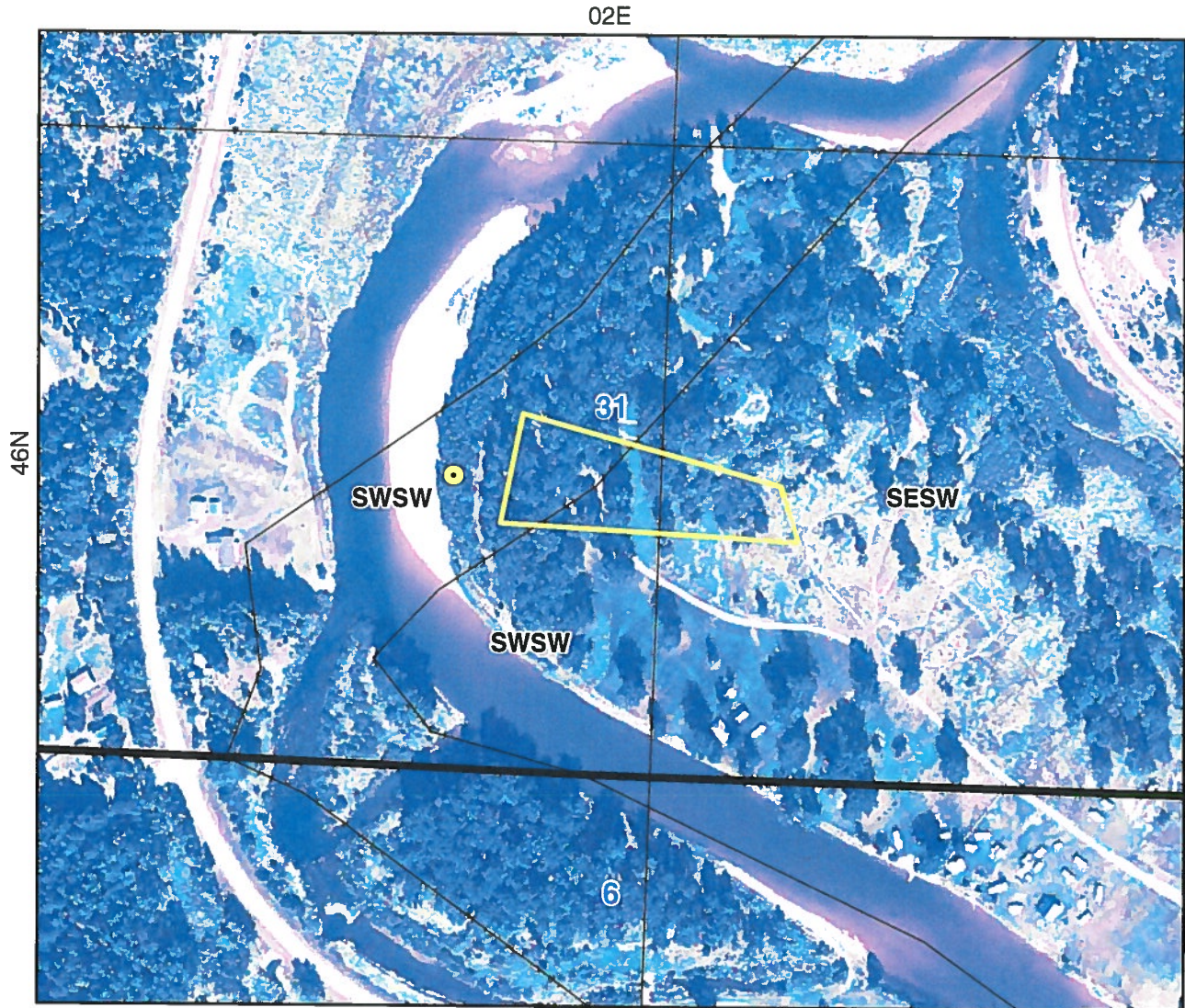
J. AUTHENTICATIONField Examiner's Name Patricia Wiley Date 03/18/14Reviewer Daniel A. Mda Date 3-26-14

State of Idaho
Department of Water Resources

Field Exam Map

91-7578

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.045 0.09 0.18 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 91-7578
 Reviewer: Patrick Kelly
 Date of Review: 3/18/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	6	6	6
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	15	15	15
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.15	0.12	0.10 0.12

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %30 efficiency.
 No Friction

Examiners Notes:

Lift was taken from DRG topo map to measure the point of diversion to the place of use or storage tank. Used 40-60 pressure

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Permit	91-7578	N	HOLTE, DIANNA;	ST JOE RIVER	POD											X						0
Water Permit	91-7578	N	HOLTE, DIANNA;	ST JOE RIVER	POU											X	X					0

Kelly, Patrick

From: Dianna Holte [kdholte@gmail.com]
Sent: Tuesday, March 18, 2014 4:49 PM
To: Kelly, Patrick
Subject: RE: Request for information 91-7578

Mr. Kelly,

Yes, we have a screen over the water intake. I'm not sure of the mesh size, but it's similar to window screening. Then that is inside another container with larger screening. Hope this helps.

Dianna Holte

On Mar 18, 2014 2:08 PM, "Kelly, Patrick" <Patrick.Kelly@idwr.idaho.gov> wrote:

Ms. Holte,

One last issue refers to a condition on your permit. This condition states that "A fish screen of 0.25 inch or smaller mesh shall be installed and maintained at the point of diversion." I assume that being a surface water system, you already have a screen in place. However, I need your confirmation that this is correct.

Thanks again,

Patrick Kelly

From: Dianna Holte [mailto:kdholte@gmail.com]
Sent: Friday, January 31, 2014 3:50 PM
To: Kelly, Patrick
Subject: Re: Request for information 91-7578

The pump we use is a 6 hp gas powered pump. We do not currently pump river water into the rv as we use that water for cooking, but will probably start using river water for showers, etc this summer. Let me know if you need any other info. Thanks for your help on this permit.

On Jan 23, 2014 9:13 AM, "Kelly, Patrick" <Patrick.Kelly@idwr.idaho.gov> wrote:

Ms. Holte,

I am contacting you to request further information regarding water permit 91-7578. I have been assigned to do the field exam for your license and this qualifies for me to do so from my office. I do however need to know the horsepower of the pump that you are using. This can usually be found on the pump itself. Also, you mention that the water is being used for watering lawn. Is this also being used in the RV's for shower/restroom use? Please reply describing the full use of water with the horsepower of pump. Once I have this information I will be able to proceed with processing your license. Thank you in advance!

Sincerely,

Patrick Kelly

Water Resource Agent

Idaho Department of Water Resources

322 E. Front St.

Boise, Idaho 83702

d: 208.287.4933

f: 208.287.6700

patrick.kelly@idwr.idaho.gov