

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

A. GENERAL INFORMATIONPermit No: 95-17353Exam Date: 8/31/2018

1. Does this qualify for an in-office field exam (IDAPA 035.02.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: James and/or Vicki Larson
 Owner of Record Correct? X Y N
 Address of Record Correct? Y N
 If No: Address

Tax lot data shows Larson, James ETUX as the owner of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: N033717

4. SOURCE**TRIBUTARY**

Spokane River

Columbia 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

Comments: Greenferry Water & Sewer District has two water right licenses (95-7557 and 95-9062 and a permit (95-9531) for domestic and municipal uses that overlap the place of use and supplies water to the home for in-house use. There are several other water rights in this legal description, but none of them are direct overlapping water rights.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There does not appear to be any other water user using this point of diversion. There are other water rights in this area, but they are not direct overlapping water rights.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Diversion			NE	SE	11	50N	5W	B.M.	KOOTENAI COUNTY
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Lot data

Change in POD? X N Amendment Required? 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	
50N	5W	11										0.2							0.2
												0.1 LT 8							0.1
Total Acres =																			0.3

Method of Determination: GIS and Tax Lot DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). 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
River Pump	Unknown				

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.**E. FLOW CALCULATIONS**

Attached

 YES Additional Computation Sheets

Measured Method:

There was very little information available to determine the flow rate. The permit limited the diversion rate to 0.02 cfs or 9 gpm for 0.5 acres. It is very difficult to find a pump that can pump that small of an amount of water, therefore, I am recommending the diversion be carried forward to licensing.

Permit allowed = 0.02 cfs**I am recommending a diversion rate of 0.02 cfs, since the system was probably designed for this amount of flow.**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \text{ acres} \times 3 = 0.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 246 \times 1.9835 = 9.8 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.9 \text{ af}$$

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

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USE

Irrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Y ☐ N

Method of Determination: Taxlot data and conversations with owner.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies as for an in-house field examination. I was able to retrieve street shots from Google Earth to confirm the irrigation. The place of use can also be defined in the 2017 aerial photography. Therefore, there is sufficient information to verify this use.

The permit was authorized for 0.02 cfs or 9 gpm. Most river pumps divert more than that amount of water for these types of system. The irrigation system was probably designed for the 9 gpm diversion rate, so it wouldn't be reasonable to not allow the full diversion rate of 0.02 cfs to be carried forward to licensing even though the acres actually irrigated are 0.2 acres less than the amount permitted. It is almost impossible to find a pump and sprinkler system that diverts less than the 9 gpm recommended.

The permit required a fish screen, and the permit holder stated on the proof of beneficial use form that they had installed the fish screen.

Conditions 1 (26A) should be removed at licensing. The remaining condition should be carried forward to licensing.

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	04/01 to 10/31	0.02 CFS	
<u>Totals:</u>		0.02 CFS	

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

9-4-18

Reviewer

Date

Permit 95-17353 – Field Exam Map

The yellow border shows the borders of the area being irrigated and the yellow dot shows the point of diversion. Please note. The point of diversion was moved into the tax parcel for the permit holder, and the point is where the water is actually diverted out of the lake, and not at the pump location.



These are street views from Google Maps of the property associated with Permit 95-17353. As you can see from these street views, the property has been irrigated and cleaned up. Earlier aerial photos suggested that the lot was not irrigated.

