

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

A. GENERAL INFORMATION

Permit No: 96-11753

Exam Date: 06/10/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. X Irrigation of 5 acres or less
- b. N/A Storage of up to 14.6 AF for stockwater purposes only
- c. N/A Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
- d. N/A Other < >
2. Current Owner: JAMES PERRY
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows James L Perry & Patricia N Perry as the owners of the property RP56N03W208570A. I don't see any issues with the ownership of this permit or proposed license.
3. Beneficial Use Fees have been paid: X Y N Receipt No: C118250
4. **SOURCE:** Pend Oreille River **TRIBUTARY:** Columbia River
- Method of Determination: ArcMap GIS and Tax Parcel Data.
- Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: X No Overlap
2. Other water rights with the same point of diversion: X No Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Pend Oreille River - Pump	L4		SW	SE	20	56N	03W	B.M.	BONNER

Method of Determination: GIS and Tax Parcel Data.

Change in POD? Y X N Amendment Required? Y X N

2. Place of 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	
56N	03W	20														0.2	0.4		0.6
		Lot #															L2		
Total Acres =																			0.6

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: pump in river piped to a lawn irrigation system.

☐ Delivery System Diagram Attached. (mark all major components and distances between components)☒ Aerial Photo Attached (required)☐ Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump	Unknown	1.5	Unknown	Gould	1 ¼-inch intake pipe to pump.

D. FLOW MEASUREMENTS

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

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Measurement = 0.6 ac x 0.03 cfs = 0.018 cfs or 0.02 cfs based on department rounding standards.

Permit allowed = 0.03 cfs

Comments: the Applicant attached detailed diverting works information and pictures accompanying submission of the Statement of Completion. A 1.5 hp Goulds submersible pump diverts from the river via a 1 ¼ inch intake pipe. The applicant asserts by attachment to the Statement of Completion that the pump is "sized for 25 gpm.

Due to flow measurements not being required, I'm recommending a diversion rate based on Administrative Memo – Application Processing No. 17, which authorizes up to 0.03 cfs per acre for small acreage irrigation. Generally, a pump used to divert water from the river is slightly oversized regarding diversion capacity; this is required to achieve elevation lift while maintaining adequate head pressure to effectively irrigate the lawn space. I've recommended **0.03 cfs** for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.6 \text{ ac} \times 3.0 \text{ afa} = 1.8 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 12.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.8 \text{ af}$$

2. Volume Calculations for Other Uses: Surface water (river) source, this irrigation water use is exempt from volume reporting requirements in accordance with IDAPA 37.03.02 Beneficial Use Examination Rules (Rule 035).

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock ☐ N/A Domestic # of Homes: ☐ N/A

Other: < N/A >

Change in Purpose of Use? ☒ X ☐ N

Method of Determination: Tax lot data, ArcMap aerial imagery, Bonner County GIS software, and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There isn't any overlapping water rights toward licensing this permit. Review of aerial imagery from Bonner County GIS maps, Google Earth, and ArcMap software clearly illustrates the irrigated area. Irrigation is for lawn area located at 385 Thistle Down Lane, Priest River ID. The Statement of Completion provides adequate information to fully recommend licensing for irrigation of 0.6 acres. During licensing review, I used ArcMap aerial imagery to trace out the area discussed which coincides with Bonner County GIS tax parcel maps.

The Applicant's water system was developed using a 6-inch screened PVC foot valve with a 1.5 hp Goulds submersible pump and 40-feet of 1 1/4-inch poly pipe to the irrigation distribution system. The Applicant asserts the system was set up with a 25-gpm pump capacity which is equivalent to 0.06 cfs, but I'm only able to recommend 0.03 cfs as the maximum diversion rate based on Department standard irrigation rates.

IDAPA 37.03.02 Beneficial Use Examination Rules designate irrigation using this surface water river source is exempt from volume reporting requirements. There is no maximum diversion volume or annual diversion volume recommended for licensing. Condition X31 provides annual volume limitations for the recommended irrigation beneficial use.

The permit holder asserts by declaration in step No. 6 on the Proof of Beneficial Use form that a fish screen is not installed on the system, but the attached water system design information identifies intake screens are on the "pump cradle" or foot valve. Idaho Fish and Game didn't comment or require a screen be installed on this existing water system. I have removed condition 029 from the permit based on this information.

Condition X31 designates the maximum annual volume equaling 1.8 afa. I recommend keeping condition 004; while the POD is located within the applicant's river frontage parcel, Idaho Department of Lands (IDL) regulates the river up to the high-water line.

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

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion
IRRIGATION	04/01 to 10/31	0.03 CFS

Totals: 0.03 CFS

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: < N/A >

J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's  Date 6/14/2024

Reviewer  Date 6/26/2024

Field Exam Map(s): 385 Thistle Down Lane, Priest River ID 83856.

10/2022 Google Earth imagery of property



Imagery retrieved from Google Earth on 6/10/2024

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 6/10/2024



Tax Parcel No. RP56N03W208570A