

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

A. GENERAL INFORMATION

Permit No: 97-9519

Exam Date: 04/05/2024

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: KEVIN WOOD
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows Wood, Kevin S & Marelee B as the owners of the property RP0275500002A0A. 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: C117239
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: Y

Water Right No.	Source	Purpose of Use	Basis
97-7395	Groundwater	Domestic, Irrigation	Active License with Claim filed in the CFPRBA.
97-9746	Groundwater	Domestic	Application for Permit

Comments: Licensed Right 97-7395 was approved 25 January 2011 and authorizes groundwater use from a well for domestic use 4 homes and 2 acres irrigation with a POU shape that overlaps this Permit's irrigation POU. A Notice of Claim was filed in the Clark Fork Pend Oreille River Basin Adjudication process, but at time of licensing the claim has not been recommended by IDWR staff. The Permit holder's parcel RP0275500002A0A shows a year-built date of 2020, which demonstrates there was no home or irrigation occurring on this parcel in 2011 when 97-7395 was licensed. Arcmap aerial imagery and Google Earth imagery illustrate that the parcel was undeveloped with a dense tree canopy that indicates irrigation was not taking place until the home was constructed in 2020.

The Permit Holder's parcel is served water by the community system established under 97-7395 but was not part of the original 4 homes on the system served by license 97-7395. Gosling Point HOA INC has filed a new application for permit, No. 97-9746, seeking to add three (3) additional homes for domestic use (in-home use only) that weren't covered under the prior license. Filing of 97-9746 provides sufficient data that there is no overlap in water use between existing license 97-7395 and this surface water source permit 97-9519.

I didn't recommend inclusion of condition X35 toward licensing Permit 97-9519, as any overlapping concerns related to 97-7395 is linked to the POU shape for 97-9519 and not the historical use of water & the POU shape should be revised through the adjudication process. The applicant is service connected to the shared groundwater well system that uses 97-7395's POD and 97-9746 covers this proposed additional water use.

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
River Pump	L7		SW	NE	32	56N	04W	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	04W	32			0.1														0.1
		Lot #			L7														
Total Acres =																			0.1

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Screened intake with pump to hose and sprinkler(s).

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

3. Diversion Id No.*	Motor Make	HP	Pump Model No.	Pump Make	Pump Serial No. or Discharge Size
Pump	unknown	1	CSW100	RainBro	0222000044

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 = 0.1 ac x 0.03 cfs = 0.003 or 0.01 cfs based on department rounding standards.

Permit allowed = 0.02 cfs

Comments: The permit identified use of a pump on the Statement of Completion used with main trunk line lifting 30 ft to a sprinkler hub for irrigation of the POU. 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. The applicant uses a 1 HP shallow well jet pump to divert water from a lake or river which is slightly oversized regarding the 0.03 cfs diversion capacity; this is required to achieve elevation lift and total head while maintaining adequate head pressure to water using hose and sprinklers. The 1 HP pump is capable of producing **0.03 cfs** or 13.5 gpm, which I'm recommending for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.1 \text{ ac} \times 3.0 \text{ afa} = 0.3 \text{ af}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.3 \text{ af}$$

2. Volume Calculations for Other Uses: Surface water (river) source, no volume metrics shall be applied to face of license.

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

Other: < >

Change in Purpose of Use? X N

Method of Determination: Tax lot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There is no overlapping water right concerns applied to my licensing recommendation (reference PG1 of report). Review of aerial imagery from Bonner County GIS maps, Google Earth, and ArcMap software illustrate small area irrigation and the Statement of Completion form contemplates a 40' x 20' lawn, drip lines to landscape plants, and garden beds as the irrigated area. I've used Bonner County GIS maps when designating the irrigation POU using ArcMap software equaling 0.1 acres.

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 is installed satisfying screening requirements.

I removed condition 029 from the permit during licensing review. I added condition X60 to describe that the irrigation use is occurring in a named subdivision lot. All other conditions shall be carried to license approval. There are no unresolved overlap concerns toward licensing this water right.

Have conditions of permit approval been met? X Yes ___ No**I. RECOMMENDATIONS**

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
IRRIGATION	04/01 to 10/31	0.01 CFS

Totals: 0.01 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

4/5/2024

Reviewer

Date

97-9519

POD – PUMP INFORMATION



DIVERTING WORKS: 1 HP RAINBRO SHALLOW WELL JET PUMP

MODEL NO. CSW100; S/N: 0222000044

Field Exam Map(s): 30 Cattail Ln, Priest River ID. Lt 2, Landings Subdivision.

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 3/28/2024

