

State of Idaho
Department of Water Resources
Water Right License
Water Right No. 97-8565

Priority: June 05, 2022

Maximum Diversion Rate: 0.01 CFS

Maximum Diversion Volume: 0.3 AF

It is hereby certified that:

BIGWOOD TRUST PO BOX 6547 SPOKANE WA 99217-0909

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated April 20, 2022, and has submitted Proof of Beneficial Use on July 17, 2023. An examination confirms water is diverted from:

Source : PRIEST LAKE

Tributary: PRIEST RIVER

Beneficial Use

IRRIGATION

Period of Use

04/01 to 10/31

Rate of Diversion

0.01 CFS

Annual Volume

0.3 AF

Location of Point(s) of Diversion

PRIEST LAKE NE¼ NW¼, Sec. 34, Twp 60N, Rge 04W, B.M. BONNER County

Place of Use: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
60N	04W	34					0.1												0.1
							L1												

Total Acres: 0.1

Conditions of Approval

1. A fish screen of 1/4 inch or smaller mesh shall be installed and maintained at the point of diversion.
2. The approach velocity at the point of diversion shall not exceed 0.5 feet per second.
3. Place of use is located within Lot 2, Blk. 1; Soldier Creek Subdivision.
4. This right when combined with all other rights shall provide no more than 0.01 cfs nor more than 0.3 afa at the field headgate for irrigation of the place of use.
5. Water shall not be diverted under this right when flows in the Priest River are below minimum flow amounts as defined by Right 97-7380. The right holder shall be responsible for monitoring the daily flow of the Priest River using real-time data and shall cease diverting water when flows in the Priest River are below established minimum flow amounts. Unless otherwise specified by the Director of the Department of Water Resources, data from the U.S. Geological Survey Priest River Gauging Station, No.12395000 may be used for purposes of determining the daily flow amounts.
6. This right does not grant any right-of-way or easement across the land of another.

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 29th day of March, 2024.


PHILL HUMMER
Water Rights Section Manager

State of Idaho
Department of Water Resources
Attachment to Water Right
97-8565

This map depicts the IRRIGATION 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.

04W



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



IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little

Director Mathew Weaver

April 05, 2024

BIGWOOD TRUST
PO BOX 6547
SPOKANE WA 99217-0909

RE: License No. 97-8565

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 287-4925.

Sincerely,

Phil Hummer

Phill Hummer
Water Rights Section Manager

Enclosure(s)

CERTIFICATE OF SERVICE

I hereby certify that on April 05, 2024, I served a true and correct copy of Water Right License No. 97-8565 by U.S. Mail, postage prepaid, to the following:

BIGWOOD TRUST (Current Owner)
PO BOX 6547
SPOKANE WA 99217-0909



Catalina Beck
Technical Records Specialist 1

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

A. GENERAL INFORMATIONExam Date: 01/25/20241. 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. ___ Storage of up to 14.6 AF for stockwater purposes only
 c. ___ Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 d. ___ Other < >

2. Current Owner: **BIGWOOD TRUST**

Owner of Record Correct? ___ N

Address of Record Correct? ___ N

If No Explain:

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C116743

4. Source: Tributary:

PRIEST LAKE**PRIEST RIVER**Method of Determination: GIS and Taxlot data.Change in Source: ___ Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X No Overlap

Water Right No.	Source	Purpose of Use	Basis
97-8852	GROUNDWATER	DOMESTIC	ADJ CLAIM

Comments: The adjudication claim submitted by the permit holder is for domestic use within the same parcel as the permit place of use (POU) from a groundwater source. Condition X31 on the permit will be carried onto the license to address any enlargements concerns, due to domestic irrigation use. There are no irrigation rights overlapping the permit POU.

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

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: There are no rights sharing the permit point of diversion (POD).**C. DIVERSION AND DELIVERY SYSTEM**

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Priest Lake			NE	NW	34	60N	04W	B.M.	BONNER

Method of Determination: GIS and Taxlot data.Change in POD? ___ Y X N Amendment Required? ___ Y X N2. 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	
60N	03W	34					0.1												0.1
		Lot #					1												
Total Acres =																			0.1

Method of Determination: Bonner County Maps, GIS, and TAXLOT DATA

Change in POU? Y X N Amendment Required? Y 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

3. Diversion Id No.*	Motor Make	HP	Pump Model	Pump Make	Pump Serial No. or Discharge Size
Screened inlet in lake	Unknown	5	Unknown	Unknown.	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	NA	NA	NA	NA	NA	NA

2. Measurement Comments: The permit holder provided that the pump used is 5 Hp. A maximum head of less than 10ft was estimated to the licensed POU using the DRG map and the stated lift on the proof of beneficial use.

E. FLOW CALCULATIONS Additional Computation Sheets Attached

Measured Method:

A theoretical calculation and Administrative Memo #17 were used to determine a reasonable rate of diversion.

$$Q = (5\text{Hp})(8.8)(0.80 \text{ efficiency}) / (10 \text{ ft lift}) + (2.31) * (40 \text{ psi}) = 0.31 \text{ cfs}$$

Theoretical Calculation= 0.31cfs

Permit allowed = 0.03cfs

Recommendation= 0.01cfs

Comments:

The permit holder stated that the irrigated area within the parcel is 0.1 acre on the proof of beneficial use. Irrigated areas of approximately 0.1-acre total were confirmed using the Department GIS, Google Earth, and Bonner County GIS imagery. The system was described as a 5 Hp pump with fish screened intake used conveyed through a 1" line to sprinklers used for watering throughout the POU.

Approximately 0.31cfs is possible with the 5 Hp pump. According to Administrative memo #17 up to 0.03cfs per acre is standard for the irrigation of up to 5 acres. Additional system information was requested from the applicant to support a higher diversion rate, but the requested system information was never received. Administrative memo #6, states that the rate should be reported rounded to the hundredth place. I am recommending a diversion rate of 0.01cfs for the license.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.1\text{-acre} \times 3.0 \text{ AF} = 0.3 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01\text{cfs} \times 214 \text{ days} \times 1.9835 = 4.3 \text{ AF}$$

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

Comments:

I am recommending the license be issued with an annual volume of 0.3 AF, based on the field headgate calculation.**G. PURPOSE OF USE**Irrigation X Y N # Stock NA Domestic # of Homes NA

Change in Purpose of Use? ☐ Y ☒ NMethod of Determination: Bonner County Maps, GIS, and Taxlot Data**H. NARRATIVE/REMARKS/COMMENTS**

This permit for the irrigation of 1 acre qualifies for an in-office examination for license. The permit holder submitted the Proof of Beneficial Use, received by IDWR on July 17, 2023, the proof due date on the permit was June 1, 2023, exceeding this date resulted in the permit lapsing. However, as the proof was filed with the department on July 17, 2023, within the 60 days allowed by Idaho Code 42-218a(2) a preliminary order was submitted reinstating the permit. In section #3 of the statement of completion the permit holder stated that the beneficial use was developed for 0.1-acre of irrigation. In section 5 they stated that they were diverting water from a 0.25-inch screened intake, traversing an approximated 8ft lift, using a 5 Hp pump, and about 125ft of 1" line to sprinklers. I was able to confirm approximately 0.1 acres irrigation was developed using aerial imagery (see figures 1 & 2). I called the permit holder on January 25th, 2024, requesting confirmation of the irrigation identified using aerial imagery and additional information regarding the irrigation. Skye Carver (the permit holder) confirmed in our conversation that only the lawn areas on the lakeside and landscaping along the southeastern property boundary are being watered. According to the phone call with Skye, the area between the structures and street is not watered. I emailed the permit holder asking that they either confirm that the areas outlined in the imagery I sent them accounted for all irrigation or provide a map outlining all the irrigated areas within the parcel. I also requested that the permit holder provide a system diagram via email. On January 31, 2024, the permit holder sent an aerial image outlining the irrigated areas and identifying the location of the screened intake. No details of the irrigation system were included in the response.

After reviewing the information provided by the permit holder, an area of approximately 0.1-acre of irrigation was confirmed. A theoretical calculation confirmed that the pump can provide the 0.31cfs rate on the permit. However, as the system information requested was never received and the place of use is approximately 0.1-acre in area I am recommending the license be issued with a rate of 0.01cfs (as per Administrative Memos #17 and 6). I am recommending an annual volume of 0.3 AF on the license, as per the field headgate calculation.

I am recommending the license be issued with conditions 004, 227, X15, X16, X60, and X31.

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	0.01CFS	0.3 AF
	<u>Totals:</u>	0.01CFS	0.3 AF

2. Recommended Amendments:

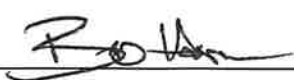
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

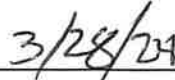
Other: < >

J. AUTHENTICATION- Bob Howe- Water Resource Agent

Field Examiner's



Date



Reviewer



Date





Figure 1- Bonner County GIS image of POU. Outlined Areas surrounding the home make up a little less than 0.1-acre of the 0.9-acre parcel.



Figure 2-Bonner county GIS imagery of POU zoomed in.. Outlined in green. Irrigation is limited to the small lawn areas in the southwest and some landscaping along the southeastern property boundary.



Figure 3- Bonner County GIS image received in email from permit holder, highlighting the irrigated POU, and where the screened ("filtered") intake enters the water (POD).



Figure 4- 2021-GIS imagery of irrigation POU outlined in blue and POD identified by blue point.