

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

A. GENERAL INFORMATION

Exam Date: 7/3/2025

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? ☒ Y ☐ N
- a. ☐ 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: Barry & Katie Greenwalt

Owner of Record Correct? ☒ Y ☐ NAddress of Record Correct? ☒ Y ☐ N

If No Explain:

3. Beneficial Use Fees have been paid: ☒ Y ☐ N Receipt No: C121841.

4. Source: Middle Fork St Maries River Tributary: St Maries River

Method of Determination: GIS, Tax Parcel Data, and the permit holders' Statement of Completion for Proof of Beneficial Use.

Change in Source: ☐ Y ☒ N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: ☒ No Overlap

Water Right No.	Source	Purpose of Use	Basis
92-10833	Middle Fork St Maries River	Stockwater	Decreed

Comments: The POU for Water Right 92-10833 overlaps the POU of Permit 92-11092. However, the purpose of use for this water right is stockwater and is unrelated to the domestic use claimed by Permit 92-11092.

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

Water Right No.	Source	Purpose of Use	Basis

Comments:

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Middle Fork St Maries River			SE	SW	5	42N	02E	B.M.	Shoshone

Method of Determination: GIS and Taxlot data.

Change in POD? ☐ Y ☒ N Amendment Required? ☐ Y ☒ N

Place of 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	
42N	02E	5												X					
		Lot #																	

Method of Determination: GIS and Taxlot data.

Change in POU? ____Y ____x__N Amendment Required? ____Y ____x__N

3. Diversion System Information:

Description:

____ Delivery System Diagram Attached. (mark all major components and distances between components)

x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required).

x 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
N/A	N/A	1	N/A	N/A	N/A

*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
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurement Comments:

No measurement is required for an in-office examination per IDAPA 37.03.02.035.01.r.

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method: The permit holders stated that they have a 1 horsepower pump, which I used for calculations of a theoretical diversion rate (Q).

$$Q = \frac{\text{Conversion Factor to cfs} * \text{Efficiency of pump (\%)} * \text{Horse Power}}{\text{depth to water} + 2.31 * \text{psi}}$$

$$Q = \frac{8.8 * 0.7 * 1.0}{20 + 2.31 * 40}$$

$$Q = 0.05 \text{ cfs}$$

The following values in the theoretical equation are estimates and were not measured: Efficiency of pump (70%) and depth to water (20 ft). Because this calculation yields an amount that exceeds the diversion rate authorized under the permit, the diversion rate will be recommended consistent with the permit as 0.04 cfs.

Comments: No measurement is required for an in-office examination per IDAPA 37.03.02.035.01.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

I.R.

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

D.R.

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = \underline{\hspace{2cm}}$$

I.R. D.R.

2. Volume Calculations for Other Uses:

Domestic: Field Examiner's Handbook lists a typical volume of 60 gallons per day and per person for a rural residence.

60 gallons per day x 5 RVs = 300 gallons per day.

300 gallons/day x 184 days/year (May 15-November 15) / 325,851 gallons/acre-foot = 0.17 acre feet annually.

The permit authorizes up to ½ acre of irrigation. Application Processing Memo lists a typical volume of 0.6 af when irrigation is separated. 0.6 af + 0.17 af = 0.77 af, which rounds to 0.8 af.

G. PURPOSE OF USE

Irrigation Y x N # Stock x Domestic # of Homes 5 recreational vehicles

Other: < >

Change in Purpose of Use? Y x N

Method of Determination: GIS, Tax Parcel Data, 2023 Bonner County Aerial Imagery, and the permit holders Statement of Completion for Proof of Beneficial Use.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office exam because it is for domestic use of less than 0.24 cfs. The exam was conducted on July 3, 2025, by Jared Klay. At the time of exam, ownership of the permit is in the name of Barry & Katie Greenwalt. Current Shoshone County taxlot data represents the permit holders own the land appurtenant to the place of use (POU) and point of diversion (POD). Proof of Beneficial use was submitted on June 27, 2025.

Shoshone County aerial imagery confirms domestic use on the property. The permit holders confirmed that this use usually occurs between mid-May and November. Therefore, I calculated the annual volume based on the number of days between May 15 and November 15. The permit holders also stated that there are normally three full-time RVs hooked up to the diversion system during their season of use but occasionally there are up to 5 RVs at a time. These factors were used to calculate an annual volume for this use. I am recommending 0.04 cfs for the diversion rate and 0.8 af for an annual volume for domestic use.

All the conditions of this permit have been met. Condition 029 can be dropped because the Idaho Department of Fish and Game did not submit a request to the applicant in regard to installing a fish screening their diversion system. Condition 004 will be dropped because there are no property concerns. All other conditions on the permit will be carried over to the license.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	1/01-12/31	0.04 CFS	0.8 AF
<u>Totals:</u>		0.04 CFS	0.8 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 – Jared Klay

Field Examiner's Jared Klay Date 7/7/25

Reviewer Ph... Date 9/12/25

Map showing the authorized point of diversion (yellow point) and place of use (yellow outline).



2021 Shoshone County Aerial Imagery

