

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-15338

Exam Date: 5/9/2024

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: THOMAS & GAIL HARSH 207 BIRCH BANKS RD SAGLE ID 83860-9262

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

If No Explain:

- Bonner County Tax Parcel information shows THOMAS & GAIL HARSH as the owners of the property RP000230010110A. 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: N0445224. **SOURCE:** Sagle Slough**TRIBUTARY:** Lake Pend Oreille

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 No Overlap

Water Right No.	Source	Purpose of Use	Basis
96-8667	Groundwater	Municipal	Claim on License
96-8777	Groundwater	Municipal	Claim on License

Comments: Active Licenses 96-8667 & 96-8777 for Mountain Springs Water Corp from groundwater are for municipal use have filed claims in the CFPRBA Adjudication. The municipal use POU does overlap this right's irrigation POU, but the municipal use is being developed from a separate source. If licensed as permitted, 96-8667 & 96-8777 municipal uses are separate water systems than this right with a surface source irrigation system and there are no concerns for overlap between Rights.

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
Sagle Slough			SE	NW	2	56N	02W	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	02W	2								0.5									0.5
Total Acres =																			0.5

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 ¾ HP electric water pump with screened intake.

 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	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump	Unknown	3/4	Unknown	Unknown	Unknown, 1-inch intake pipe

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 = 0.5 ac x 0.03 cfs = 0.02 cfs based on department rounding standards.

Permit allowed = 0.03 cfs

Comments: The permit identified use of an electric ¾ HP pump on the Statement of Completion used with a 1 inch PVC line to the irrigation/sprinkler system for 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. Generally, a ¾ HP 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 water using the sprinkler system established by the applicant. A ¾ HP electric irrigation pump is capable of producing **0.02 cfs** or 9.0 gpm, which I'm recommending for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \text{ ac} \times 3.0 \text{ afa} = 1.5 \text{ af}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5 \text{ af}$$

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 – beneficial use removed from permit.

Other: < N/A >

Change in Purpose of Use? X N

Method of Determination: Tax lot data, phone conversation with applicant's representative Mr. James Russell, and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office examination. There are no overlapping water right concerns 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 & minor landscape on the property.

Using ArcMap software, I traced out the irrigation POU which equals 0.5 acres. I am recommending 0.5 acres for licensing purposes which authorizes 1.5 afa per season of use.

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 description & declaration on the application for permit that a fish screen is installed satisfying screening requirements.

I removed condition 029 from the permit during licensing review based on fish screen compliance. All other conditions shall be carried to license approval.

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	0.02 CFS

Totals: 0.02 CFS

2. Recommended Amendments:

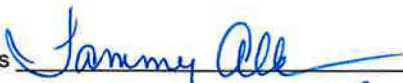
 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

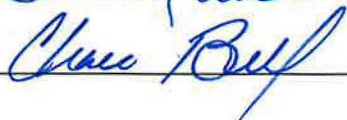
Other: < N/A >

J. AUTHENTICATION Tammy Alleman - Water Resource Agent

Field Examiner's

Date 5/9/2024

Reviewer

Date 5/14/2024



ARCMAP, GOOGLE EARTH & BONNER COUNTY MAPS