

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

A. GENERAL INFORMATIONExam Date: 5/3/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- X Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >
2. Current Owner: Langley Family Irrevocable Trust
Owner of Record Correct? X Y N
Address of Record Correct? X Y N
If No Explain:
3. Beneficial Use Fees have been paid: X Y N Receipt No: C118210
4. Source: Priest Lake Tributary: Priest River

Method of Determination: GIS, Tax Parcel Data, and the Permit Holders Statement of Completion for Proof of Beneficial Use.

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
N/A			

Comments: A small portion of water right 97-4109's GIS place of use shape overlaps the permitted place of use. However, the water right backfile indicated there wasn't any overlap. Permit 97-9617 also overlaps the permitted place of use and authorizes irrigation diverting from groundwater, multiple sources for the same use is allowed so there are no overlap issues.

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: N/A

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Priest Lake	2		SW	SE	9	59N	04W	B.M.	Bonner
								B.M.	

Method of Determination: GIS and Tax Parcel Data and 2023 Bonner County Aerial Imagery.

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

2. Place of Use: Irrigation

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TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
59N	04W	9															0.1	0.1	0.2
		Lot #															2		
Total Acres =																		0.2	

Method of Determination: GIS, Tax Parcel Data, and Bonner County Aerial Imagery.Change in POU? Y X N Amendment Required? Y X N Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo indicating the location of the recommended POD and POU. 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					

*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						

2. Measurement Comments: The permit holder did not provide pump horsepower. Therefore, a diversion rate calculation was not possible.**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method: Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. According to Administrative Application Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. I am recommending a 0.01 cfs diversion rate.

(0.2 acres) * (0.03 cfs/acre) = 0.006 cfs or 0.01 cfs rounded.

Administrative Processing Memo #17 Calculation = 0.01 cfs
 Permit allowed = 0.03 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.2 \text{ acres}) \times (3.0 \text{ af/acre}) = 0.6 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.01 \text{ cfs}) \times (214 \text{ days}) \times (1.9835 \text{ af/day}) = 4.2 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.6 \text{ af}$$

G. PURPOSE OF USEIrrigation X Y N # Stock N/A Domestic # of Homes N/AChange in Purpose of Use? Y X NMethod of Determination: GIS, Tax Parcel Data, 2023 Bonner County Aerial Imagery, and the permit holders Statement of Completion for Proof of Beneficial Use.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 1973. The permit authorized the irrigation of 0.3 acres of irrigation. 2023 Bonner County Aerial Imagery indicated that 0.1 acres of irrigation occurred within the development period. However, irrigation was confirmed within both authorized Quarter/Quarters authorized on the permit, 0.1 acres in the SWSE Government Lot 2 and less than 0.1 acres in the SESE. Therefore, according to Administrative Application Processing Memo #6 rounding would increase the total irrigated area to 0.2 acres, 0.1 in the SWSE Gov lot 2 and 0.1 in the SESE. The Tax Parcel boundary and visual property boundary were inconsistent. The visual property boundary was used to determine the total irrigated area within the authorized place of use.

A condition on the permit requires the permit holder to install a fish screen meeting the fish screening passage requirements of the Idaho Department of Fish and Game. The permit holder confirmed a fish screen meeting those requirements was installed on their Proof Statement. Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Application Processing Memo #17 determined a diversion rate recommendation. All conditions of permit approval have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.01 cfs diversion rate and 0.6 af volume.

Conditions X31, 227, and 004 should remain on the license. The diversion rate and volume limitation on condition X31 should be updated to match the recommended diversion rate and volume. Condition 029 should be removed because the permit holder confirmed a fish screen was installed meeting the fish screening and passage requirements of the Idaho Department of Fish and Game.

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>
Irrigation	04/01-10/31	0.01 CFS	0.6 AF
	<u>Totals:</u>	0.01 CFS	0.6 AF

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: < >

J. AUTHENTICATIONField Examiner: **Skyler Cheever – Water Resource Agent**Field Examiner's  Date 5/3/2024Reviewer  Date 8/13/24

Field Exam Map

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



2023 Bonner County Aerial Imagery

Imagery indicated 0.3 acres of irrigation occurred within the development period.

97-9580 2023 Aerial Imagery



5/3/2024

Road Centerlines

- Primary
- Secondary
- Local; Ramp

Parcels

- World Boundaries and Places
- World Imagery
- Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

15cm Resolution Metadata

