

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

A. GENERAL INFORMATION

Permit No: 96-13078

Exam Date: 03/05/2024

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: PAUL I BARNHART AND TRUDY J BARNHART FAMILY TRUST

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

If No Explain:

- Bonner County Tax Parcel information shows Barnhart Trust (Owner1) and Barnhart, Trudy J Trustee (Owner2) as the owners of the property RP041530010050A. Barnhart Trust is the generalized form adapted by Bonner County for the full trust name = Paul I. Barnhart and Trudy J. Barnhart Family Living Trust, Dated May 17, 2012, as reflected on current Quitclaim Deed Instrument # 946578. 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: N0443404. **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 No Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9852	Groundwater	Domestic	Active Permit

Comments: Active Permit 96-9852's groundwater source domestic use has not been validated by the Department at time of licensing for Permit 96-13078; the domestic use POU does overlap this right's irrigation POU, but the domestic use is being developed from a separate groundwater well. If licensed as permitted, 96-9852's domestic use is a separate water system than this surface source irrigation system and there is no concern for overlap between Right(s).

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
Lake Pump	L2		NW	NE	34	57N	03W	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	
57N	03W	34		0.2															0.2
		Lot #		L2															
Total Acres =																			0.2

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 portable water 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	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump	Unknown				

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 = 0.2 ac x 0.02 cfs = 0.004 or 0.01 cfs based on department rounding standards.

Permit allowed = 0.02 cfs

Comments: The permit identified use of a portable pump on the Statement of Completion used with hose and hand moved sprinklers 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. Generally, portable pumps used to divert water from a lake or river are slightly oversized regarding diversion capacity; this is required to achieve elevation lift while maintaining adequate head pressure to water using hose and sprinklers. Normally, these portable irrigation pumps are 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:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 8.5$$

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

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

Field Exam Map(s): 73 teal Ln, Sagle ID. Lt 5, Blk 1; Swan Shores II Subdivision.

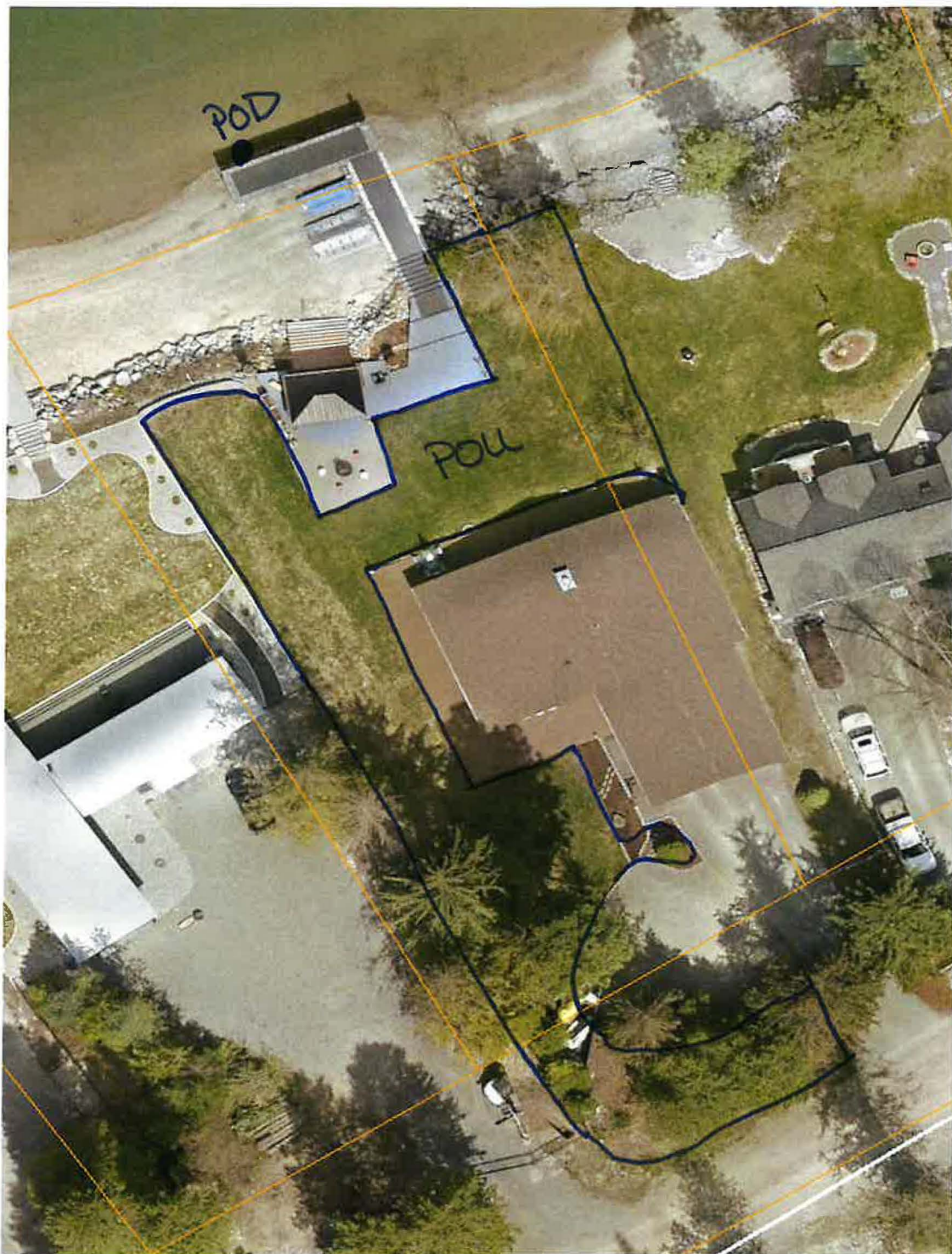
7/2022 Google Earth imagery of property.

10/2022 Google Earth imagery of property.



Imagery retrieved from Google Earth on 3/5/2024

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 3/5/2024



- Blue border illustrates irrigation POU. 

Note: apparent aerial imagery drift/shift as property lines intersect houses in frame.