

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

A. GENERAL INFORMATIONPermit No: 96-13299

Exam Date: 08/02/2024

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X 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: Name: Pend Oreille Shores Resort Association Inc.

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

If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: N0447254. **SOURCE** **TRIBUTARY**

Lake Pend Oreille

Pend Oreille River

Method of Determination: GIS and Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-8774	Ground Water	Irrigation	License
96-4313	Riser Creek	Domestic	Statutory Claim
96-7105	Lake Pend Oreille	Municipal	License
96-9050	Ground Water	Commercial	License

Comments:

The permit place of use (POU) is overlapped by irrigation, domestic, and commercial water rights. There are no overlap concerns.2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no overlaps for the point of diversion.**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Lake Pend Oreille			NE	SW	1	56N	01E	B.M.	Bonner

Method of Determination: GIS and Parcel data.Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** 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	01E	1								1.5									1.5
		Lot #								6									
Total Acres =																			1.5

Method of Determination: GIS and aerial imageryChange in POU? X N Amendment Required? X N

____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

 x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

____ Aerial Photo Attached (required for irrigation of 10+ acres).

____ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PUMP	UNKNOWN	2	UNKNOWN	UNKNOWN	UNKNOWN

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: No measurement is required for an in-house exam, but Applications Processing memo #17 and a theoretical calculation were used to determine an acceptable rate.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

We were not provided any pump information beyond the horsepower (2 HP) and gallons per minute (35 GPM).

Converting the gallons per minute the pump is capable of to cfs yields 0.09365 cfs, which is roughly equivalent to the permitted rate. ArcGIS imagery and measurement of irrigated areas, however, indicate an actual irrigated area of 1.5 acres. I am recommending a diversion rate of 0.05cfs for the irrigation of 1.5 acres within the bounds of the originally designated POU.

$$1.5 \text{ acres} \times 0.03 \text{ cfs} = 0.05 \text{ cfs}$$

Permitted Rate = 0.09cfs**Theoretical Rate = 0.09 cfs****B.U Limit = 0.05 cfs****Recommended Rate = 0.05 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 3 = 4.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 213 \times 1.9835 = 12.67 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ AF}$$

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____Change in Purpose of Use? ☐ Y ☒ X ☐ NMethod of Determination: Tax lot data and documentation from owner.**H. NARRATIVE/REMARKS/COMMENTS**

Permit 96-13299 qualifies for an in-office examination because the acreage irrigated is less than 5 acres, the diversion rate is less than 0.24 cfs, and there is no storage component. The information for the current permit holder matches the information on the statement of completion provided to the Department. No pictures of the irrigation system or diversion works were provided.

The permit holder described the delivery system as drawing water from Lake Pend Oreille with a 2 horsepower pump through a pipe that runs 150 feet off shore. The water then goes into an underground sprinkler system to water a lawn on the property. No sprinkler system diagram was provided, the irrigated area is smaller than the bounds of the parcels intersected by the place of use. ArcGIS measurements indicate 1.5 acres of irrigated area accounting for buildings, paved areas, and playgrounds, approximately 1.5 acres less than the permitted acreage. Other than the discrepancy in claimed and developed acreage, the permitted beneficial use has been sufficiently developed. I am recommending a licensed diversion rate of 0.05 cfs to irrigate 1.5 acres. No volume is being recommended since the source is from a lake and is not required.

Condition 029 applied to the original permit required the permit holder to install a fish screen on the intake of their irrigation system for the sake of wild life conservation. As the required fish screen has been installed, condition 029 has been removed from the License. Condition R66 is being carried over to licensing. Condition 004 is being removed since there are no concerns of property ownership or access.

Have conditions of permit approval been met? ☒ X Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Irrigation	04/01 to 10/31	0.05 CFS	4.5 AFA
<u>Totals:</u>		0.05 CFS	4.5 AFA

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: < >

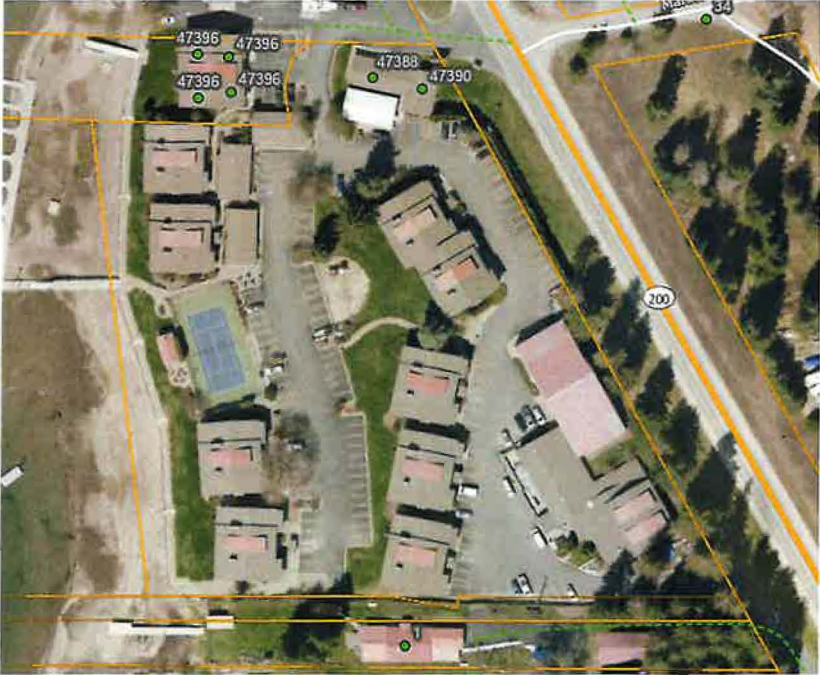
J. AUTHENTICATION- Engineer Intern- Jacob CaraigWater Resources Agent's Name Jacob CaraigDate 10/30/2024Reviewer ATDate 10/30/24

Supporting Imagery –

1. The polygon drawn on ArcGIS shown below was used to measure the acreage of the place of use using the provided sprinkler diagram as reference.



2. Bonner County Assessor GIS Imagery



3. POU and Point of Diversion

State of Idaho
Department of Water Resources
Water Right
96-13299



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

0 0.035 0.07 0.14 Miles

