

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

A. GENERAL INFORMATION

Permit No: 96-13085

Exam Date: 03/01/2024

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
 - N/A Storage of up to 14.6 AF for stockwater purposes only
 - N/A Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 - N/A Other < >
2. Current Owner: ROY DUGGER and/or CYNTHIA DUGGER
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows Dugger, Roy L & Cynthia M as the current owners of parcel RP00081001001A at time of licensing. 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: N044336
4. **SOURCE:** Lake Pend Oreille **TRIBUTARY:** Pend Oreille 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: No Overlap

Water Right No.	Source	Purpose of Use	Basis
96-13091	Groundwater	Domestic	Permit in process License review

Comments: Active permit in process licensing review Right No. 96-13091 is owned by the permit holder for domestic use from a shared groundwater well; the 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			NW	NE	22	54N	01W	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	
54N	01W	22		0.4															0.4
		Lot #		L1															
Total Acres =																			0.4

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Screened intake pipe in lake with ¾ HP submersible pump & pipe routing to pressure tank prior to distribution to irrigation system.

 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			

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 = 0.4 ac x 0.03 cfs = 0.012 or 0.01 cfs based on department rounding standards.
 Permit allowed = 0.02 cfs

Comments: The permit holder provided pump information on the Statement of Completion identifying a ¾ HP pump from the lake to the irrigation system. 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, ¾ hp submersible pumps are capable of producing **0.02 cfs** or 9.0 gpm, that I'm recommending for licensing. The applicant is limited to 0.02 cfs based on the approved permit's diversion rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.4 \text{ ac} \times 3.0 \text{ afa} = 1.2 \text{ af}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ af}$$

2. Volume Calculations for Other Uses: N/A

G. PURPOSE OF USE

Irrigation Y N # Stock N/A Domestic # of Homes N/A

Other: < >

Change in Purpose of Use? X N

Method of Determination: Tax lot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The irrigation use for this permit is relatively simple with a screened intake and submersible pump to pressure tank prior to distribution for yard & landscape watering. The use of a pressure tank indicates the applicant uses a pressurized irrigation by zone watering system. There are no overlapping water right concerns toward licensing this permit.

I used ArcMap aerial imagery along with Bonner County GIS software to accurately trace out the irrigation POU which is clearly represented by imagery. There are multiple areas around the home and shop that while being graveled or concreted in, have landscape plants visible from imagery (ref maps below). The total irrigation acreage equals 0.4 acres, which I have reduced from the 0.5 ac authorized for development.

The permit holder asserts by declaration on the Proof of Beneficial Use form that the applicant's diverting works include a fish screen, satisfying screening requirements.

I removed condition 029 from the permit during licensing review. The permit was approved with condition X35 describing combined use limits between this permit's surface source irrigation & Right 96-13091's domestic use from a separate groundwater system. Evaluation discussed above on pg1 demonstrates there is no concern for overlap and X35 is not recommended for licensing this right. I revised condition X31 changing diversion volume from 1.5 af to reflect 1.2 af as validated during licensing review. 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>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.02 CFS	1.2 AF

Totals: 0.02 CFS 1.2 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. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's J. D.B. Date 3/1/2024

Reviewer _____ Date _____

Field Exam Map(s): 24 Fort George Rd, Bayview ID. Lts 1 & 2, Blk 1; Culver Cove Lots Sub.

2019 Google Earth imagery of property.



Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 2/29/2024



Note: Cedar Creek label is not valid for the applicant's property.