

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

A. GENERAL INFORMATION

Permit No: 96-9524

Exam Date: 11/5/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: Name: Brett & Melissa Ueeck
- Owner of Record Correct? ☒ Yes ☐ No
- Address of Record Correct? ☒ Yes ☐ No
- If No: Address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: CO99555

4. **SOURCE****TRIBUTARY**

Lake Pend Oreille

Pend Oreille River

Method of Determination: Applicant submitted an aerial photo map that outlined POD & POU.Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☒ Yes ☐ No

Water Right No.	Source	Purpose of Use	Basis
96-7011	Lake Pend Oreille	Domestic	License

Comments: 96-7011 is a large system domestic water right owned by Oden Water Assn Inc. City water provider.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: No POD overlap.**C. DIVERSION AND DELIVERY SYSTEM**1. **LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Pend Oreille Lake	3		NW	SE	8	57N	01W		BONNER

Method of Determination: Legal Description in permit validated by PLS data and mapping.Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **PLACE OF USE:** Use: Domestic

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	01W	8									D					D			
											L3					L3			

Method of Determination: Map of property submitted by land owner identifies POU clearly. Aerial photography confirms domestic structure exists.

Change in POU? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

3.

☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ 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
Unk.	Unk	Unk	Unk	Unk	Unk

*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

2. Measurements: In-office field exam. Theoretical flow included in report.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 20 ft.

psi = 40-60

hp = 0.5-2

See attached theoretical sheet.

Average flow rate is 0.05 cfs

Measurement = 0.05 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

V = Smaller of $\frac{V}{I.R.}$ and $\frac{V}{D.R.}$ = _____

2. Volume Calculations for Other Uses: Administrator memo #22 recommends a volume of 1.2 af for domestic use per home.

G. PURPOSE OF USE

Irrigation ☐ Yes ☒ No # Stock 0 Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 96-9524 authorized the diversion of 0.04 cfs from Pend Oreille Lake for domestic purposes. Based on the small permitted diversion rate and POU, this qualifies for an in-office field exam. The exam was completed on November 5, 2014 by WRA Patrick Kelly.

Legal description of POU & POD on the permit was used to locate the property in the name of Wanooka Farms Inc. An assignment of permit was submitted with a copy of the warranty deed giving permit ownership to a Brett and Melissa Ueeck. The property is located on the shore of Pend Oreille Lake Aerial photography of the land confirmed that there is a domestic structure built

Overlap review found 96-7011. This is a large service domestic provider operated by Oden Water Assn Inc. Combined use limit conditions will be placed on the license for this purpose.

A range of small hp pumps were assumed given this is for domestic use and the requested diversion rate is relatively small. Lift was measured using the DRG map. Topography from the home to shore waters measure close to 20 feet. A range of discharge pressures were used under what we would expect to see from in home domestic tanks (40-60 psi). Theoretical average flow rate is 0.05 cfs.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	01/01-12/31	0.04 cfs	1.2 af
<u>Totals</u>		0.04 cfs	1.2 af

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

Other: < >

J. AUTHENTICATION

Field Examiner's Name Patrick Kelly Date 11-5-2014

Reviewer Camille S. Skaggs Date 11-7-2014

State of Idaho
Department of Water Resources
Field Exam Map
96-9524

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.035 0.07 0.14 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 96-9521
 Reviewer: Patrick Kelly
 Date of Review: 11/5/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	0.5	1	2
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	20	20	20
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.03	0.05	0.08 0.05

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

A range of small hp pumps were assumed given this is for domestic use and the requested diversion rate is relatively small. Lift was measured using the DRG map. Topography from the home to shore waters measure close to 20 feet. A range of discharge pressures were used under what we would expect to see from in home domestic tanks (40-60 psi). Theoretical average flow rate is 0.05 cfs.

ANALYSIS SHEET FOR PROOF OF BENEFICIAL USE

Permit No.: 96-9524

Reviewed By: dblock

Date: October 28, 2014

	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>
Proof received timely?	X		Drilling permit required?		X
License examination fee required?	X		Drilling permit No.:		
Appropriate fee submitted?	X		Drilling permit upgrade needed?		
Receipt No.:		N030113, C099555	Well driller's report filed?		
Additional Amount Due:			Measuring device required?		X
Name and address same as permit?	X		Measuring device installed?		
Are the water uses correct?	X		Measure device waiver requested?		

Priority Calculation

Date proof received		10/27/2014
Date proof due	-	12/01/2014
Lapse notice sent	-	
No. of days late	=	0
Holiday allowance	+	
Priority date	+	09/10/2013
New priority date	=	09/10/2013

Deficiencies of Actions Items

Proof deemed acceptable.

Gave file to Pam Skaggs for license review.

Pam will enter the proof made date in AdHoc at the time of licensing .