

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

A. GENERAL INFORMATION

Permit No: 97-7752

Exam Date: 11/25/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: Michelle Peterson
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No: Updated email address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C101223

4. SOURCE**TRIBUTARY**

Priest River

Pend Oreille River

Method of Determination: Application information along with aerial photography

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

Comments: There are no other documented water rights, permits, or claims in the QQ associated with this permit.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other points of diversion in the QQ associated with this permit.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Priest River			SE	SE	11	56N	05W		Bonner

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography. The POD is located in the Priest River.

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

2. **LOCATION OF PLACE(S) 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	
56N	05W	11																	D

Method of Determination: Permit information, Bonner county taxlot information, aerial photography, and GIS.

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

3.

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

Indicate weir size/pipe as applicable.

The pipe size is unknown.

☒ 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
N/A					Unknown

*Code to correspond with No. on map and aerial photo

The applicant stated they are using a pump to provide water however the exact pump size used is unknown.

D. FLOW MEASUREMENTS

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: In-office field exam. No measurements taken

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Theoretical calculation = 0.04 cfs (see attached)

Standard = 0.04 cfs

Permit allowed = 0.04 cfs

License recommended for 0.04 cfs.

F. VOLUME CALCULATIONS

Volume Calculations for Domestic:

According to processing memo #22, domestic use for in-house and yard irrigation can have up to 1.2 AF of annual water use.

License recommended for 1.2 AF for this permit.

G. PURPOSE OF USE

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

Other: 1 Recreation Vehicle (RV)

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 97-07522 qualifies for an in-office license exam as it is for a small diversion rate (0.04 cfs) and is for domestic use at 1 recreational vehicle (RV).

The taxlot associated with the place of use is owned by Michelle Peterson according to information updated on 3/12/2015 by Bonner County.

There are no overlaps with the place of use or point of diversion associated with this permit.

As there is not a condition limiting the volume of this domestic use on the permit so an annual volume limit should be listed on the license.

Condition; Conditions 187, WB9, and 004 should be carried over to licensing. As this is an in-office exam, I am unable to verify if the point of diversion has a fish screen (x15). Condition X15 should be carried over to licensing. The condition listing the description of the domestic use has been updated from RV to "Recreational Vehicle".

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 to 12/31	0.04 cfs	1.2 AF
	Total Diversion	0.04 cfs	1.2 AF

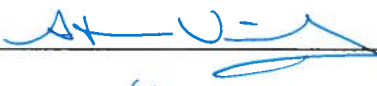
2. Recommended Amendments

☐ 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: < >

I. AUTHENTICATION – Steven Visosky, Water Resource Agent

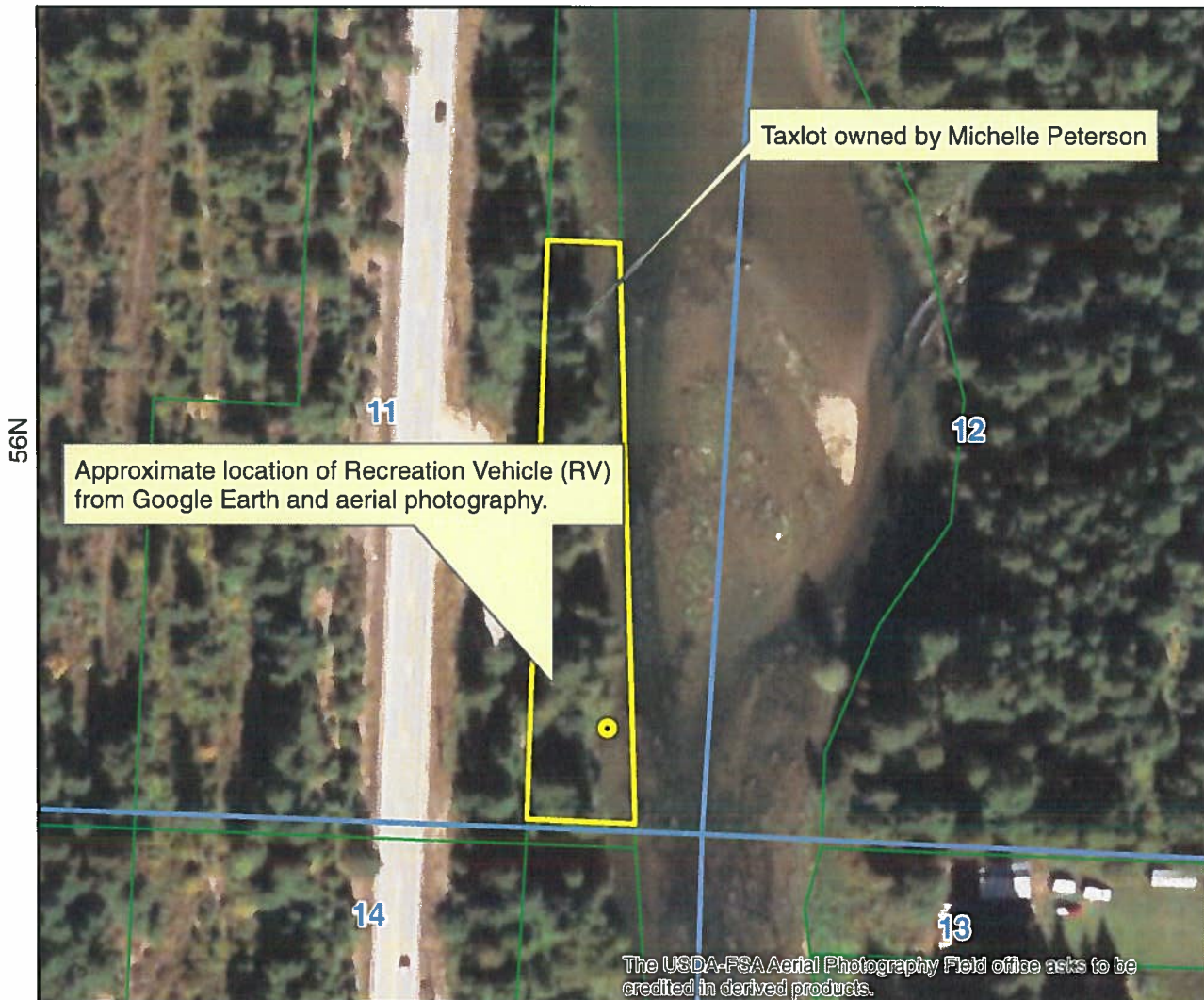
Field Examiner's Name  Date 11/25/2015

Reviewer  Date 11-25-2015

Attachment to in-house exam report 97-7522

Map created by Steven Visosky
November 25, 2015

05W



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Taxlots

0 0.015 0.03 0.06 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 97-7522
 Reviewer: Steven Visosky
 Date of Review: 11/25/2015

P/D No.:

	Well #1	Well #2	Well #3	
PUMP HORSEPOWER	0.75	0.75	0.75	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	10	10	10	
DISCHARGE PRESSURE	35	45	55	
RATE OF FLOW (cfs)	0.05	0.04	0.03	0.04
	23	18	15	18.72

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:

The above theoretical s are using a standard size pump (3/4 HP) used for domestic purposes. The discharge pressures listed above are also standard discharge rates for domestic and irrigation needs. Assuming an approximate 10' lift from the river to the RV site, a 3/4HP pump would deliver enough water to cover the rate associaed with this permit and therefor does not appear to be a limiting factor