

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-12238

Exam Date: 9/22/2016

1. Current Owner:
DENNIS SLAVICK PO BOX 2972 RANCHO MIRAGE CA 92270 (775) 722-7077

2. Accompanied by: Dennis Slavick

3. **SOURCE:**
COEUR D ALENE LAKE

TRIBUTARY:
SPOKANE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

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

COEUR D ALENE LAKE SW¼NE¼ Sec. 10, Twp 49N, Rge 04W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -116° 50.321, 47° 36.485

2.

PLACE OF 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	
49N	04W	10			X L 1														

Method of Determination: Google Earth, Sentinel, Landsat, and Arcmap.

3.

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

X 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.X Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*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: N/A

E. FLOWX Additional Computation Sheets Attached**CALCULATIONS**

Measured Method: Theoretical pumping equation attached because flow measurement was not possible. Theoretical estimates flow rate at 16.7 gpm or 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: Domestic use for 1 home = 0.6 AF

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant showed a ¾ hp submersible pump in lake that served domestic water to 1 home. I was unable to perform a measurement because of a complicated system the applicant had. Water went through a filtration system and went to pressure tanks. Applicant thought the hose bibs only went off of the pressure tanks and the water wasn't filtered. Because applicant wasn't positive how system worked, a theoretical pumping equation was used to estimate the flow rate at 0.04 cfs.

Applicant said he had planned to build two homes but only completed one. Hoses were strung along the driveway that applicant said he used for irrigation. During license review I checked Sentinel Imagery and Landsat imagery looking for signs of irrigation. I was unable to find any evidence of irrigation on the property during this review as well as review of Google Earth Imagery and Arcmap Imagery. Because I found no evidence of irrigation during exam and during review, I am issuing license for domestic use only with no irrigation. Applicant had mentioned that he was happy he had the hoses in place because a fire occurred behind his home in 2013. He made it sound like he used all of the hoses for a fire protection purpose instead of an irrigation purpose. Because fire protection is an exempt use, he will not need to apply again.

License will be issued for a diversion rate of 0.04 cfs with an annual volume of 0.6 acre feet. Condition 132 will be removed from license and x01 will be added to describe that domestic use is for 1 home. All other conditions will be left on license. There are no overlap concerns.

Have conditions of permit approval been met? X Yes No

H. 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	0.6 AF
<u>Totals:</u>		0.040 CFS	0.60 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

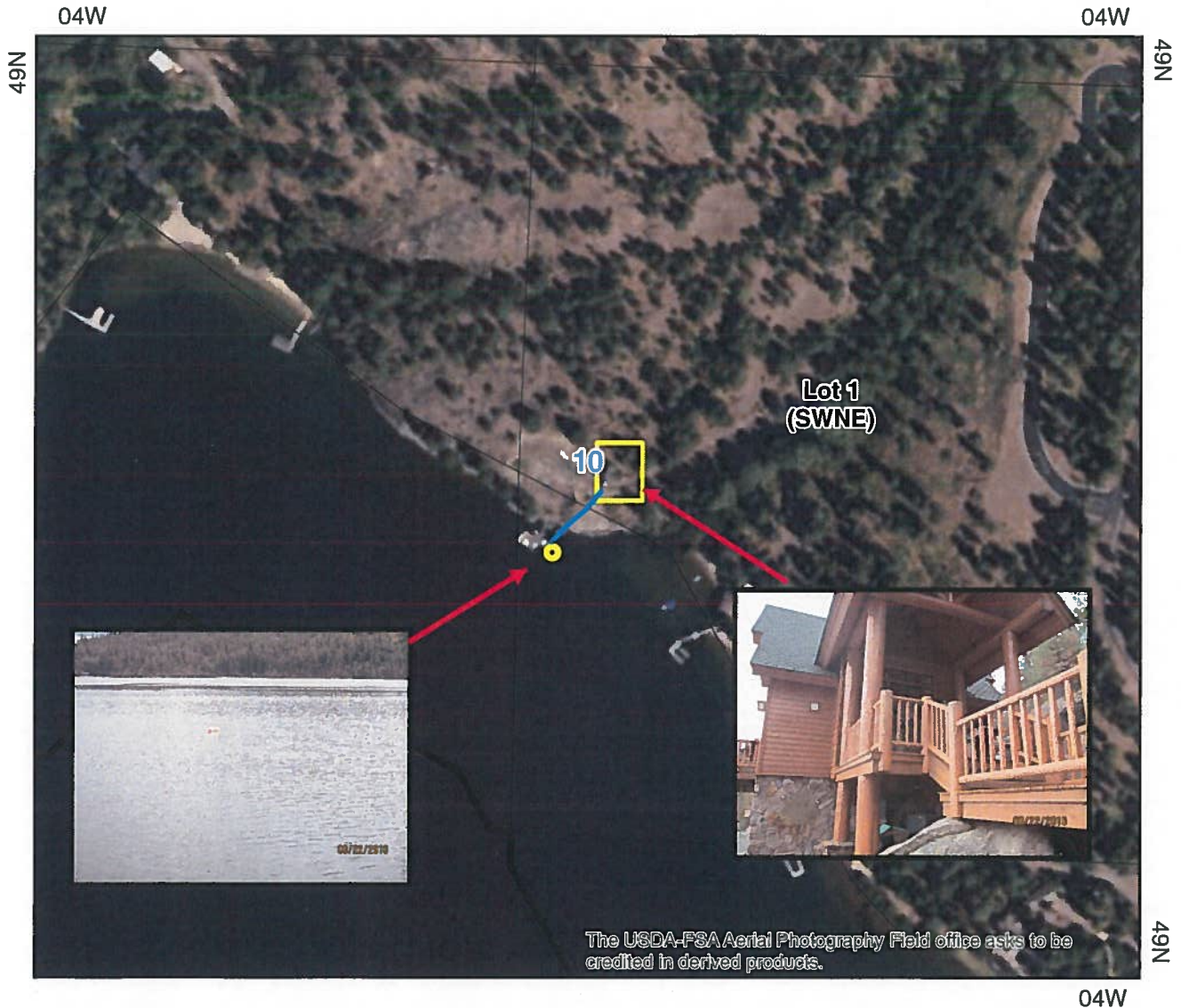
I. AUTHENTICATION

Field Examiner's Name Adam Funch Date 12-7-2017

Reviewer Douglas Jones Date 12/14/17

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-12238

DOMESTIC / SYSTEM DIAGRAM



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

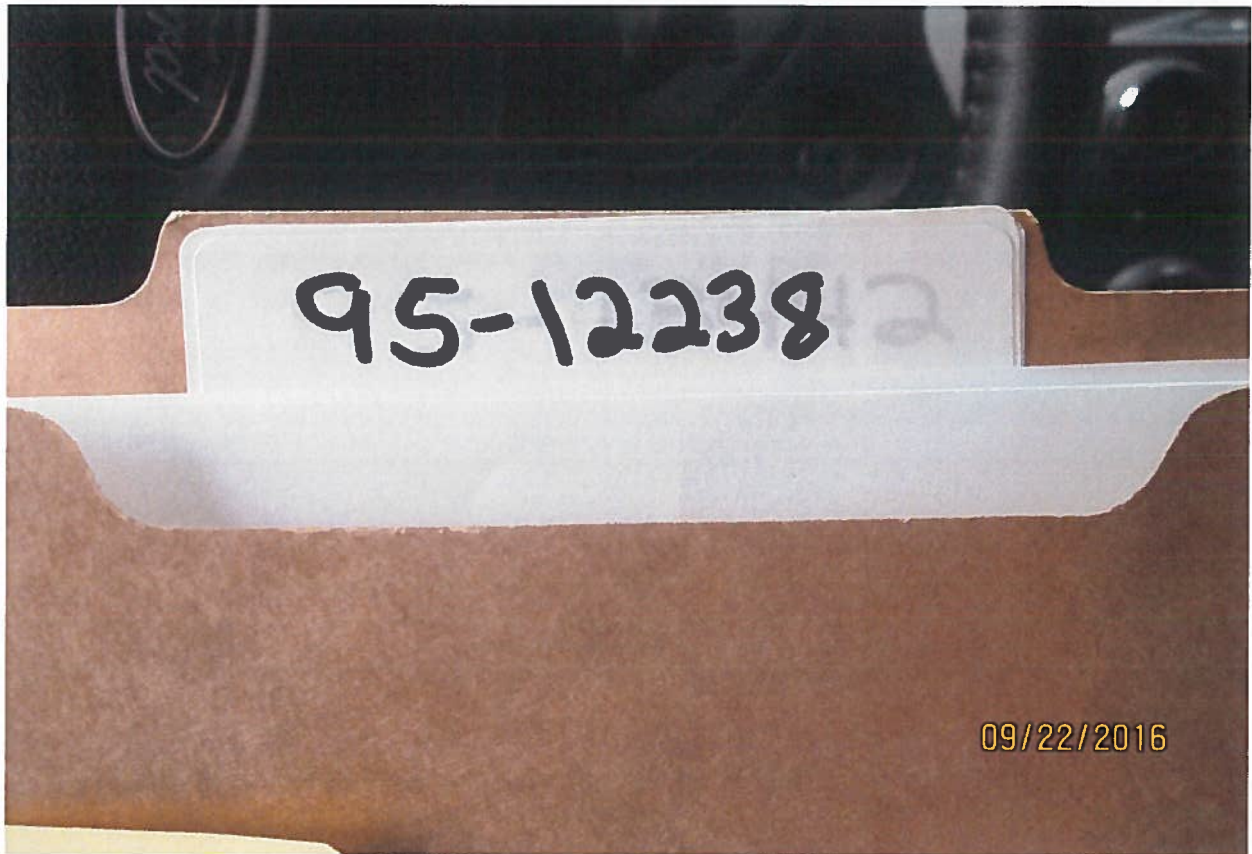
0 0.035 0.07 0.14 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-12238

I was unable to perform a flow measurement during exam. System was fairly complicated because it had to go through a filtration system and pressure tank. Applicant thought the outdoor water only went through the pressure tank but was unsure how the system worked. Theoretical pumping equation estimates flow rate of 16.7 gpm or 0.04 cfs based upon pump size and pumping lift up hill to home.

PUMP EQUATIONS WATER RIGHT No. 95-12238						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	0.75	142.517	0.8	50	40
Q =		0.037 cfs	16.7 gpm			



Only 1 home had been built and was using water from the lake.



Buoys marking location of pump.



Applicant had hoses around property but no visible irrigation was present.