

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-15826

Exam Date: 8/4/2016

1. Current Owner:

JAMES WALTON 6192 S PANORAMA VIEW DR HARRISON ID 83833 (208)765-9402 And/Or

ALOHAE WALTON 6192 S PANORAMA VIEW DR HARRISON ID 83833 (208)765-9402

2. Accompanied by: Applicants

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

COEUR D ALENE LAKE L4 (SE¼NE¼) Sec. 7, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 116° 46.244, 47° 36.552

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	
49N	03W	7			0.4 L 3	0.2 L 4													.6

Total Acres: 0.6

Method of Determination: Maps and arc map.

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
		1.5			

*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:

E. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION SHOWS SYSTEM CAN PRODUCE AT LEAST 0.02 CFS. SEE ATTACHED. _____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.6 \text{ AC} \times 3 \text{ AF} = 1.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ CFS} \times 246 \times 1.9835 = 9.8 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 1.8 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Field exam showed applicants had a 1.5 hp pump from lake for irrigation of 0.6 acres. Irrigation was done through frost free hydrants and sprinklers. There will be no overlap with claim 95-15486 which is domestic use from a well because that well supplies irrigation to the front yard. Theoretical pumping equation shows system is capable of producing 0.02 cfs for the irrigation of 0.6 acres.

Have conditions of permit approval been met? ____ Yes X No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.02 CFS	1.8 AF
	<u>Totals:</u>	0.020 CFS	1.80 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 Fink Date 12-12-2016

Reviewer Mary Case Date 2/21/2017

State of Idaho
Department of Water Resources
Water Right License
95-15826

IRRIGATION - PUMP AND PIPE TO FROST FREE HYDRANTS FOR SPRINKLER USE.

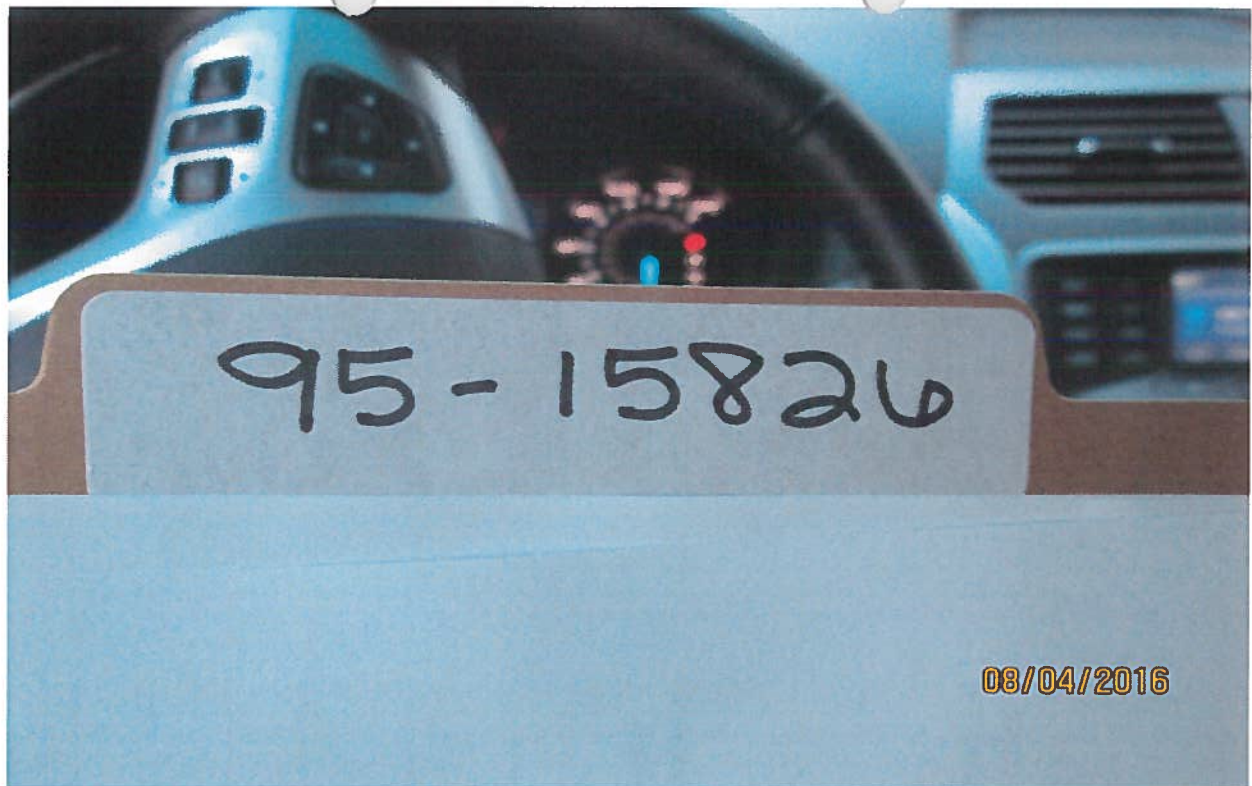


- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.0225 0.045 0.09 Miles



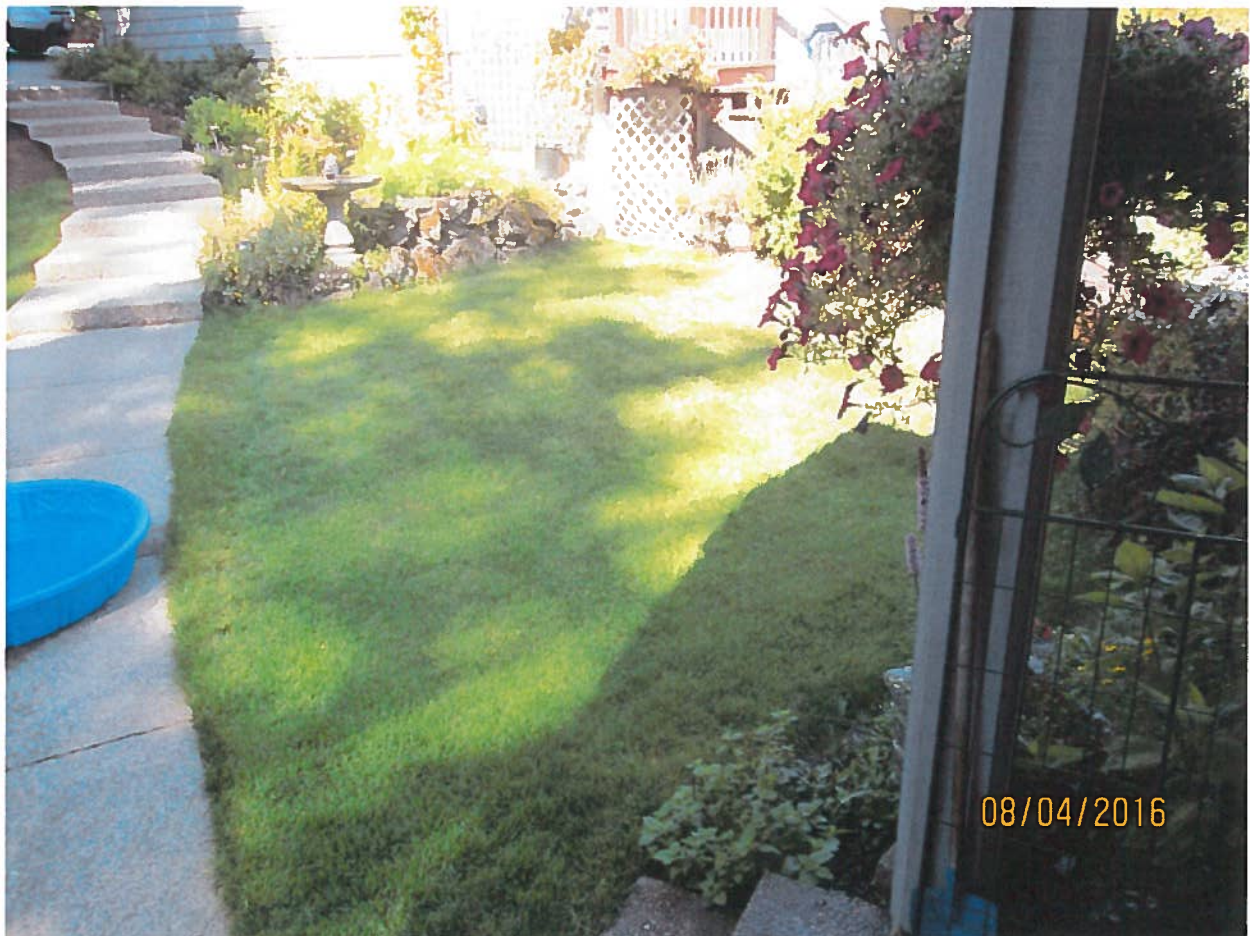
PUMP EQUATIONS WATER RIGHT No. 95- 15826						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	1.5	210.340 1	0.8	60	65
Q = 0.050 cfs 22.6 gpm						



Pipeline from lake to shore.



Lower irrigation along lake.





Irrigation.