

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9488

Exam Date: 5/15/2012

1. Current Owner: UPPER COLUMBIA CORPORATION
PO BOX 19039
SPOKANE WA 99219-9039
(208)772-3484
2. Accompanied by: BRUCE CHRISTEN
Phone No: 208-772-3484
Address: 17415 E HAYDEN LAKE ROAD ID 83835
Relationship to Permit Holder: OPERATOR

3. **SOURCE**

HAYDEN LAKE

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

HAYDEN LAKE L6 NE1/4SW1/4 Sec. 11, Twp 51N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS 116.40.390 W 47.46.849 N

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
51N 03W 11	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	2.0
																	L 6

Total Acres: 2

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
		5HP			

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

D. FLOW MEASUREMENTS

PUMP EQUATIONS WATER RIGHT No. 95-9488						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	262.2108844	0.7	135	55
Q = 0.118 cfs 52.8 gpm						

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3 = 6 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 246 \times 1.9835 = 29.27 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ Yes ☐ 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	0.060 CFS	6.00 AF
<u>Totals:</u>		0.060 CFS	6.00 AF

2. Recommended Amendments

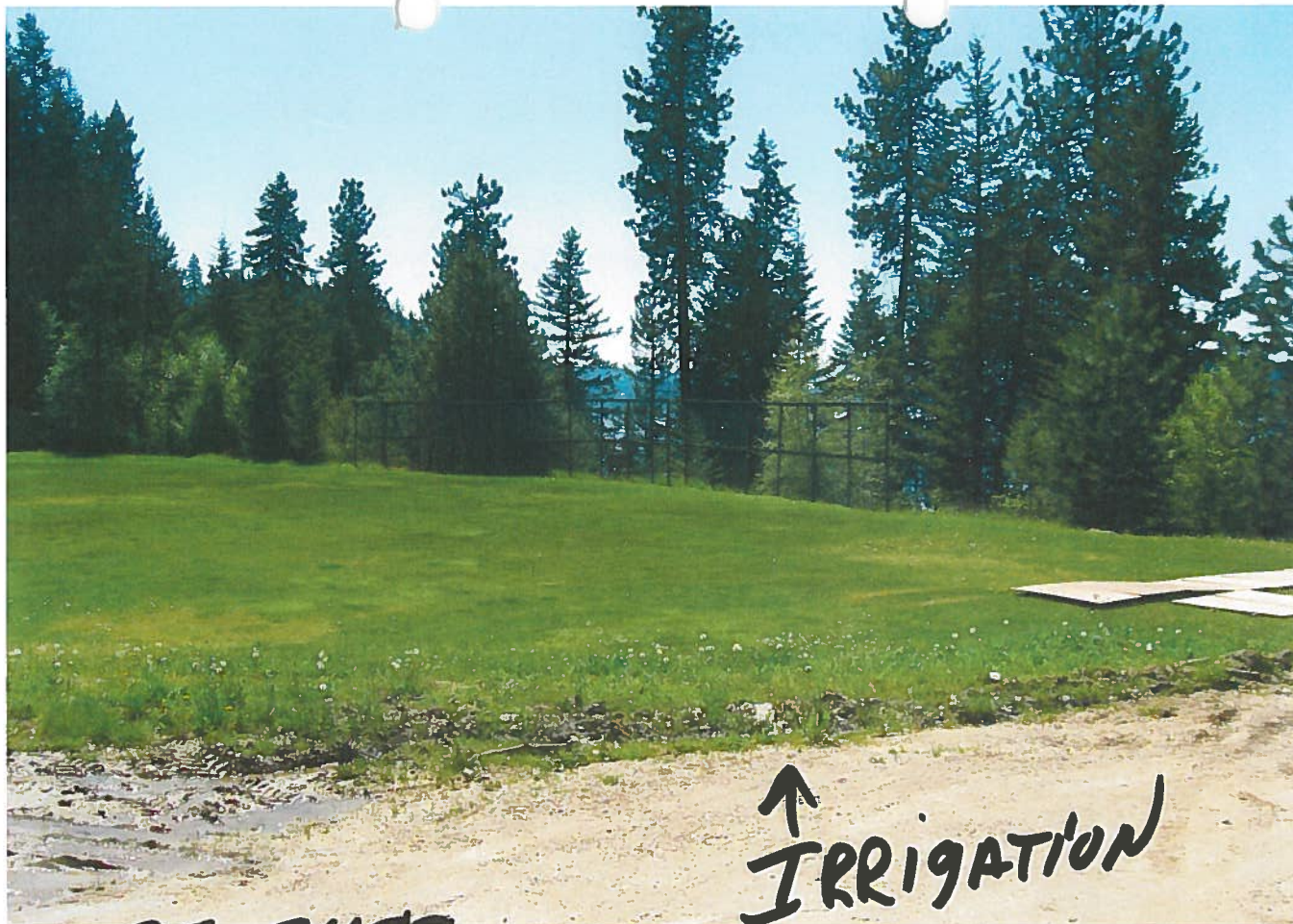
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

I. AUTHENTICATION

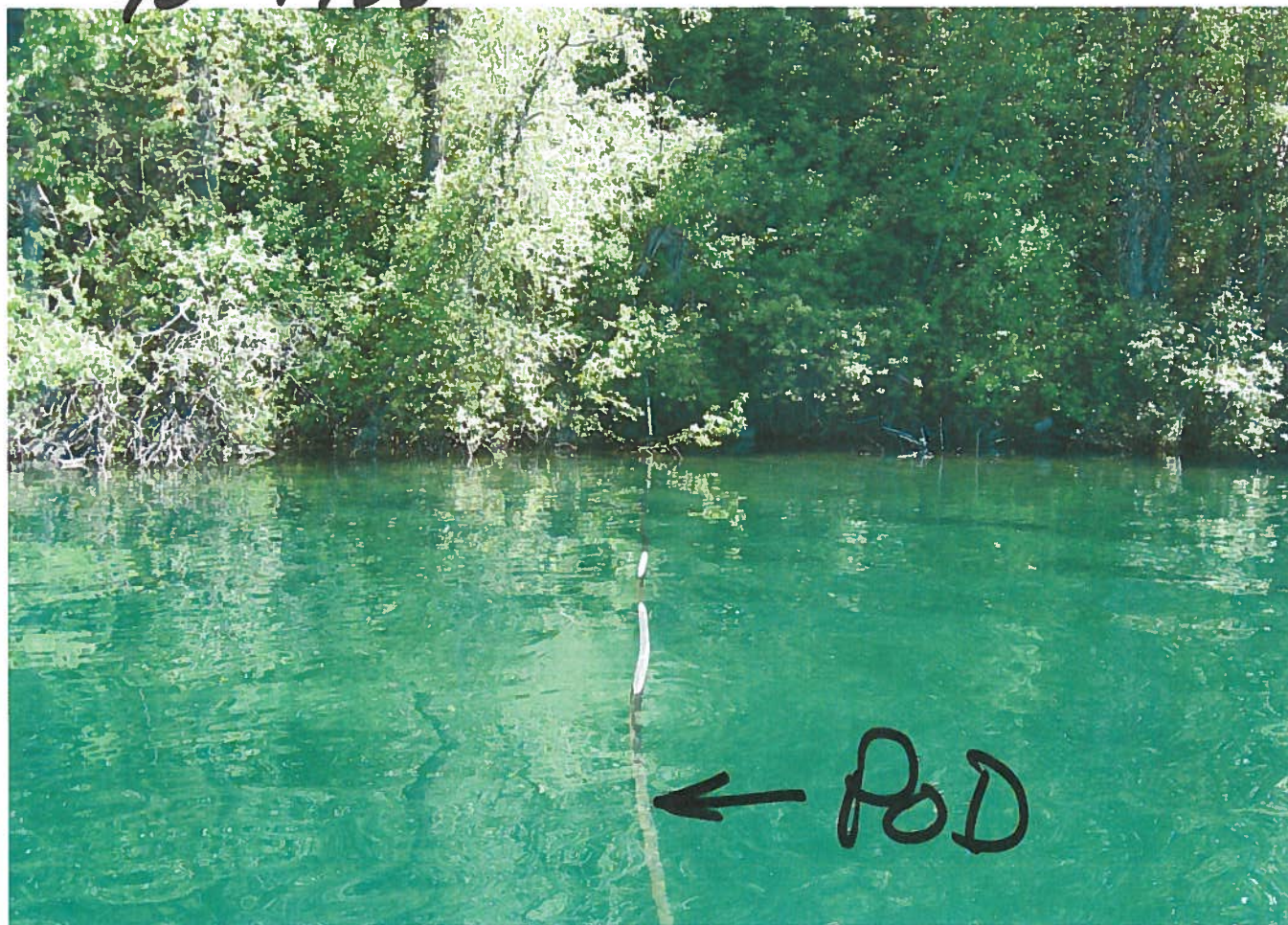
Field Examiner's Name *Emilia Davis* Date 5-18-2012

Reviewer _____ Date _____



95-9488

↑
IRRIGATION



← POD



USE.JPG



POD.JPG

SYSTEM



Legend

1 inch = 149 feet

Water Right POD

QQ

Right POU

Taxlots

