

Exam Date: 5/2/2007

- COEUR D'ALENE LAKE

[illegible]

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			X	X													

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			X	X													

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	
50N	05W	35			.5	1.0													1.5

Total Acres: 1.5

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			.5	1.0													1.5

Total Acres: 1.5

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			X	X													

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			X	X													

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	35			X	X													

DIVERSION TO STORAGE same as IRRIGATION STORAGE

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 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 Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements: 5 gallon bucket

E. FLOW CALCULATIONS

Measured Method:

Split Flow Measurement
 4 gal in 5 sec x 2
 8 gal in 5 sec
 96 gpm
 0.21 cfs

_____ Additional Computation Sheets Attached

Irrigation
 5 gal in 16 sec
 18.75 gpm
 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 3 = 4.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .04 \times 246 \times 1.9835 = 19.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\begin{array}{r} .09 \times 8 \\ .72 \text{ AF} + .04 \times 1 \\ .04 \text{ AF} \\ .76 \text{ AF} \\ + 4.64 \text{ AF} \\ \hline 5.4 \text{ AF} \end{array}$$

$$\begin{array}{r} 5.4 \text{ AF} \\ + 4.5 \text{ AF} \\ \hline 9.9 \text{ AF} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

POINT OF DIVERSION IS APPROXIMATELY 260 FT. FROM PLACE OF USE CONNECTED BY AN 8 IN. PVC PIPE WITH 3 CLEANOUTS. THE LARGE POND HAS A SURFACE AREA OF .09 ACRES WITH AN AVERAGE DEPTH OF 8 FT. THE SMALL POND HAS A SURFACE AREA OF .04 ACRES WITH AN AVERAGE DEPTH OF 1 FT. THE TWO PONDS ARE APPROXIMATELY 30 FT. APART CONNECTED BY AN 8 IN. PLASTIC OVERFLOW PIPE. THE SMALLER POND THEN OVERFLOWS INTO COUGAR CREEK. THE IRRIGATION IS DIVERTED FROM THE LARGE POND BY A 1HP. PUMP CONNECTED TO A SINGLE FROST FREE SPICKET FROM WHERE HOSES ARE DRUG FOR LAWN IRRIGATION.

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>
DIVERSION TO STORAGE	01/01 to 12/31	0.210 CFS	
RECREATION	01/01 to 12/31	0.210 CFS	
RECREATION STORAGE	01/01 to 12/31		5.40 AF
WILDLIFE	01/01 to 12/31	0.210 CFS	
WILDLIFE STORAGE	01/01 to 12/31		5.40 AF
IRRIGATION	03/15 to 11/15	0.040 CFS	4.50 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		5.40 AF
FIRE PROTECTION	01/01 to 12/31	0.210 CFS	
FIRE PROTECTION STORAGE	01/01 to 12/31		5.40 AF
IRRIGATION STORAGE	03/15 to 11/15		5.40 AF
<u>Totals:</u>		0.210 CFS	9.90 AF

2. Recommended Amendments

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

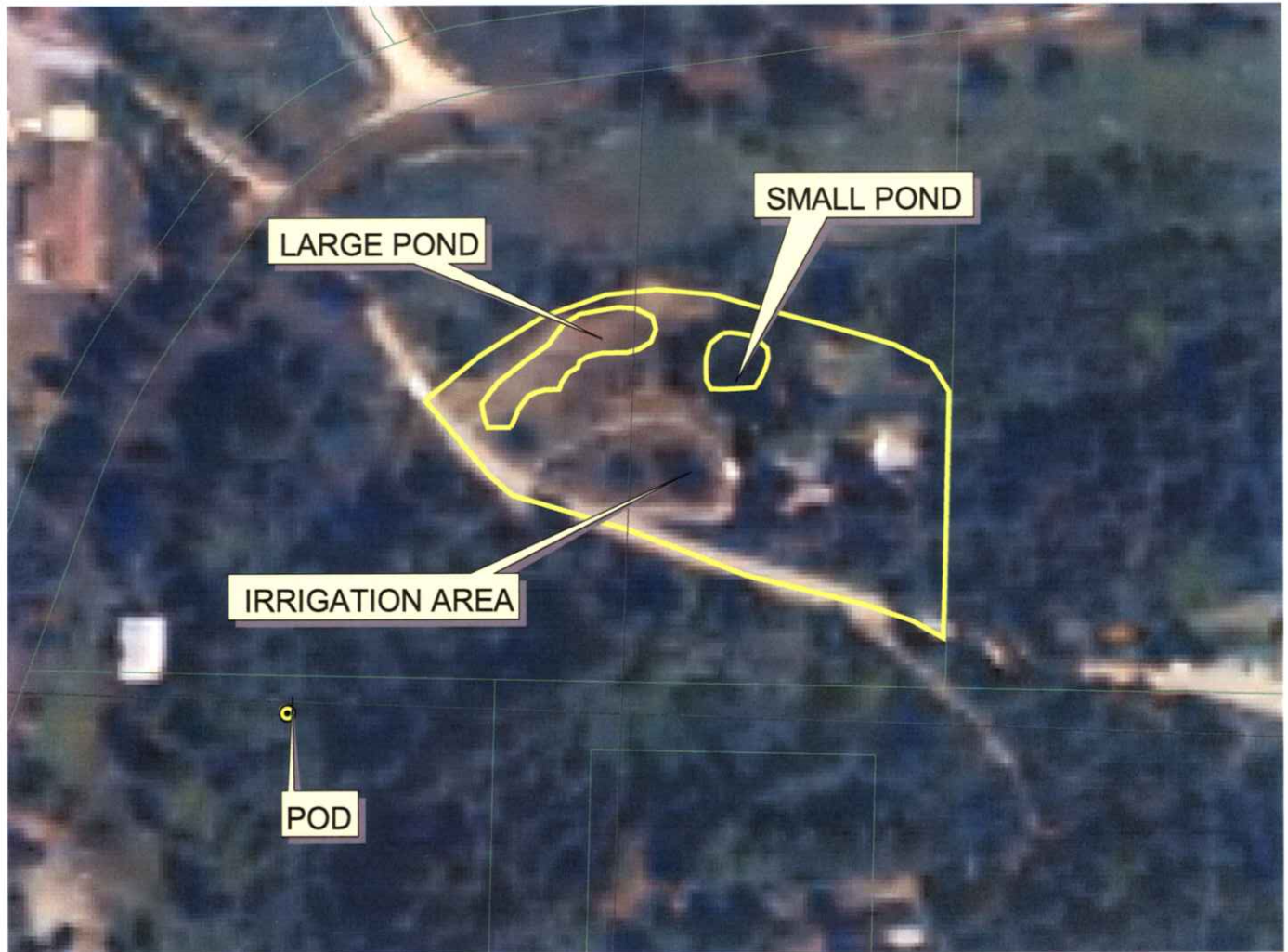
___Change P.U. as reflected above ___Add P.U. as reflected above ___Other

I. AUTHENTICATION

Field Examiner's Name  Date 8-14-07

Reviewer  Date 8/15/7

95-9219



0.04 0 0.04 0.08 Miles

-  Kootenai taxlots
-  GCDB50N05W GCDB
-  Right POD
-  Administrative BasinsAdminbas.shp
-  Pou.shp
-  Pod.shp





BOTH PONDS



INLET FOR IRRIGATION
PUMP



INLET TO LARGE POND



LARGE POND



LARGE POND AND PIPE
TO SMALL POND



LAWN IRRIGATION



LAWN IRRIGATION 2



LAWN IRRIGATION 3



LEVEE BETWEEN LARGE
POND AND STREAM



ONLY POINT OF
IRRIGATION



OUTFLOW FROM SMALL
POND TO STREAM



OUTLET FROM LARGE
POND



PIPE FROM LARGE POND
TO SMALL POND



PIPE FROM LARGE POND
TO SMALL POND 2



POINT OF DIVERSION



POINT OF DIVERSION 2



PUMP AND PRESSURE
TANK



PUMP FROM LARGE
POND



PUMP MOTOR TAG



PUMP MOTOR TAG 2



WATERFALL TO SMALL
POND

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