

[illegible]

Method of Determination: GIS and aerial photography

Change in POD? ☐ YES ☐ Amendment Required? ☐ YES ☐2. **PLACE OF USE:** 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	
48N	4W	3									0.7								0.7
		Lot #									6								
Total Acres =																			0.7

Method of Determination: GIS and aerial photography

Change in POU? ☐ YES ☐ Amendment Required? ☐ YES ☐☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ 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					

*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
N/A						

2. Measurements: In house field exam, no measurement taken, see theoretical sheet.**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

Theoretical Calculation = 0.05 cfs

Permit allowed = 0.05 cfs

License recommend for 0.05 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \text{ acres} \times 3.0 = 2.1 \text{ AFA}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 24.4 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.1 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation ☐ YES ☐ # Stock _____ Domestic # of Homes _____

Other:

Change in Purpose of Use? ☐ Y ☒ N

Method of Determination: Aerial photography showing landscaped areas

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

-POD and POU were listed with incorrect Q, QQ, and Lot information. An Amendment will need to be completed with correct information that is listed in this report for licensing.

-The right holder has requested a slightly higher diversion rate of 0.05 cfs due to a zoned sprinkler system that requires approximately 21 gallons per minute.

- Replaced condition R66 with X31 as amount of land irrigated is now less than 1 acre.

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>
Irrigation	3/15 to 11/15	0.05 CFS	2.1 AF
<u>Totals:</u>		0.05 CFS	2.1 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 ☐ None

Other:

J. AUTHENTICATION – Steven Visosky, Water Resource AgentField Examiner's Name Steven Visosky Date 10-07-2015

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-12904
 Reviewer: Steven Visosky
 Date of Review: 10/2/2015

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
0.75
0
10
50
0.04
17

Well #2
1
0
10
50
0.05
22

Well #3
1.5
0
10
50
0.07
33

0.16
71.59

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 three pump sizes used for this theoretical worksheet are common size pumps used for irrigation systems. The applicant stated that they were requesting a higher diversion rate due to a zoned sprinkler system that requires approximately 21 gallons per minute. The above well #2 with one HP pump theoretical would deliver 0.05 cfs or 22 gallons per minute at 50 PSI.

State of Idaho
Department of Water Resources
Attachment to Field Exam Report

95-12904

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

04W



-  Point of Diversion
-  Place Of Use Boundary
-  Taxlots
-  QQ
-  Township/Range

0 0.0125 0.025 0.05 Miles



Process	Basin Sequence	Draft	Owner	Source	POD/POU	NESW	Total Acres	Review comment
Water Permit	95-11061	N	DUNN, C A	COEUR D ALENE LAKE	POD	X	0	Permit POD in lake for property to the south of this permit
Water Permit	95-11061	N	DUNN, C A	COEUR D ALENE LAKE	POU	X	0	Domestic and fire protection from Lake for property on southern boarder of this permit
Water Permit	95-11061	N	DUNN, C A	COEUR D ALENE LAKE	POU	X	0	Domestic and fire protection from Lake for property on southern boarder of this permit
Water Permit	95-12904	N	ROGER L & LINDA U RASMUSSEN 2006 REVOCABLE INTER VIVOS TRUST	COEUR D ALENE LAKE	POD		0	PERMIT FOR EXAM
Water Permit	95-12904	N	ROGER L & LINDA U RASMUSSEN 2006 REVOCABLE INTER VIVOS TRUST	COEUR D ALENE LAKE	POU		1	PERMIT FOR EXAM
Water Right	95-4049	N	LEWIS, BERNIECE D	SPRING	POD		0	Source is a spring
Water Right	95-4049	N	LEWIS, BERNIECE D	SPRING	POU		0	Water Right for Domestic Claim west of property. Not Direct
Water Right	95-4318	N	RASMUSSEN, GRACE D; RASMUSSEN, NEAL A	COEUR D ALENE LAKE	POD		0	
Water Right	95-4318	N	RASMUSSEN, GRACE D; RASMUSSEN, NEAL A	COEUR D ALENE LAKE	POU		10	Water Right from Statutory Claim for irrigation that comes into quarter. Not Direct overlap
Water Right	95-8403	N	DUMAIS, GUY	GROUND WATER	POD		0	
Water Right	95-8403	N	DUMAIS, GUY	GROUND WATER	POU	X	0	Domestic Ground water right west of property. Not direct overlap
Water Right	95-8553	N	STEWART, DOUGLAS R	COEUR D ALENE LAKE	POD		0	Domestic water right to the west of property. Not direct overlap
Water Right	95-8553	N	STEWART, DOUGLAS R	COEUR D ALENE LAKE	POU		0	
Water Permit	95-9343	N	VINCENT, BARBARA; VINCENT, MIKE	COEUR D ALENE LAKE	POD	X	0	Permit POD south of property in Lake
Water Permit	95-9343	N	VINCENT, BARBARA; VINCENT, MIKE	COEUR D ALENE LAKE	POU		0	Permit for Irrigation/ Irrigation storage/ Diversion to storage/ Irrigation from storage
Water Permit	95-9343	N	VINCENT, BARBARA; VINCENT, MIKE	COEUR D ALENE LAKE	POU	5.4	20	Irrigation and storage but not direct overlap
Water Permit	95-9361	N	VINCENT, BARBARA; VINCENT, MIKE	GROUND WATER	POD		0	Permit with different source not direct
Water Permit	95-9361	N	VINCENT, BARBARA; VINCENT, MIKE	GROUND WATER	POU	2.0	4	Irrigation not direct overlap
Water Permit	95-9361	N	VINCENT, BARBARA; VINCENT, MIKE	GROUND WATER	POU	X	0	Domestic not direct overlap