

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-16901

Exam Date: 10-22-2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other

2. Current Owner: Name: Steven Hester
Owner of Record Correct? X Y N
Address of Record Correct? Y X N
If No: Added "West" after street number on address and added email address.

According to Kootenai County, Steven Hester is the owner of the property listed on the permit.

3. Beneficial Use Fees have been paid: X Y N Receipt No: NO31513

4. SOURCE _____ **TRIBUTARY** _____

Coeur D Alene Lake

Spokane River

Method of Determination: GIS

Change in Source:	Y	X	N
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B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
95-12947	Ground water	Domestic	Currently is an adjudication recommendation

Comments: Water right 95-12947 is an adjudication recommendation for domestic use at the same property under the same name but with a different source. Please see "Remarks" for more information about recommendation. There are no other water rights in this QQ (SWNE 2). There are 5 other adjudication recommendations in the same QQ but all five water rights are located to the south of this permit and are not a direct overlaps.

2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: The source of water for this permit is Coeur D Alene Lake. There are 5 other adjudication recommendations in this QQ (SWNE 2) that also list the Lake as the source however they are not located on this property nor do they share the same POD.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

[illegible]

Method of Determination: GIS

Change in POD? ☒ X ☐ N Amendment Required? ☒ X ☐ N2. **PLACE OF USE:** 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	
48N	5W	25			D														
		Lot #			L2														
Total Acres =																			

Method of Determination: Aerial photos

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

Indicate weir size/pipe as applicable.

☒ X 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
Submersible Pump from App for Permit					

*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**☒ X Additional Computation Sheets Attached

Measured Method:

Theoretical Calculation = 0.04 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad X \quad 3.5 \quad} =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{X \ 214 \ X1.9835} = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Domestic use for this permit is limited to external use only with the irrigation not to exceed ½ acre. According to processing memo #22, when the irrigation is separated from a domestic right, the volume limit is 0.6 afa per household. I am recommending 0.6 af for this permit.

G. PURPOSE OF USE

Irrigation ☐ Y ☒ X ☐ N # Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Aerial photo shows one home

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house exam. Aerial photography shows one home on the lot.

This domestic permit is for external use only and the irrigation occurring under this right shall not exceed ½ acre.

There is an adjudication recommendation (95-12947) for domestic use at the same property however the two water rights have different sources. The adjudication recommendation source is ground water.

Spoke with Craig Saxton with Adjudication to discuss recommendation overlap. Adjudication will condition the recommendation to limit use to one home and only a half an acre of irrigation in combination with this permit.

Conditions- Condition #240 should be replaced with 239 as the license is for one home and other three conditions (187, X15, and 004) should be carried over to licensing.

Have conditions of permit approval been met? ☒ X Yes ☐ No

I. 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	0.4 CFS	0.6 AF
<u>Totals:</u>		0.4 CFS	0.6 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

Other: < >

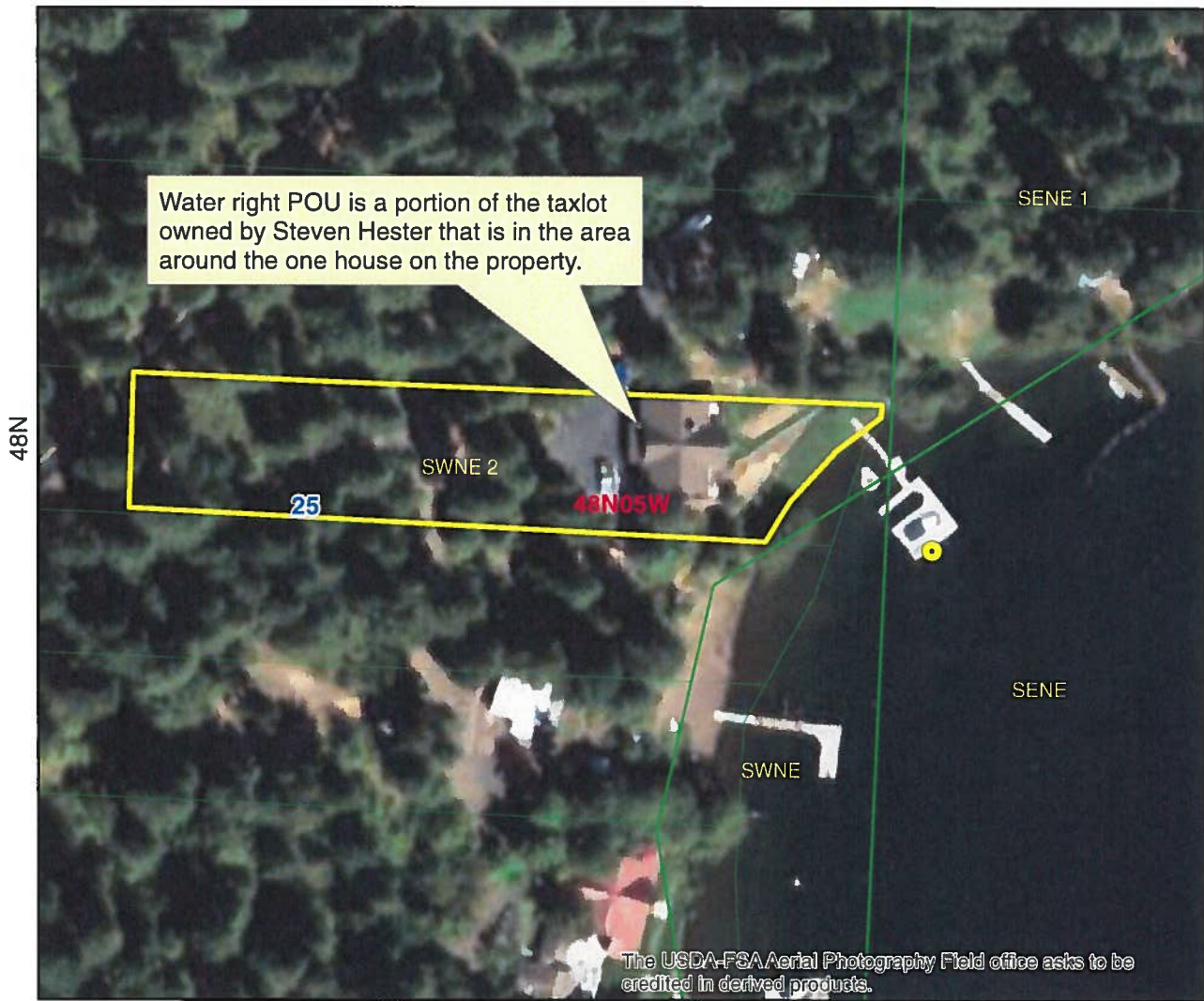
J. AUTHENTICATION Steven Visosky, Water Resource Agent

Field Examiner's Name Date 10-26-2015Reviewer Date 10-26-2015

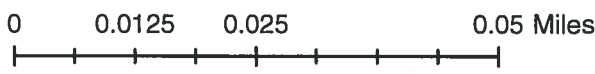
Attachment to In-Office Field Report

95-16901

05W



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



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-16901
 Reviewer: Steven Visosky
 Date of Review: 10/16/2015

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
0.75
0
10
40
0.05
20

Well #2
0.75
0
10
50
0.04
17

Well #3
0.75
0
10
60
0.03
14

0.04
16.91

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:

A 0.75 HP pump is a standard size submersible pump used for domestic purposes. Assuming a 10 foot lift from the lake along with the standard pressure range of 40-60 PSI, it would be safe to say that a 0.75HP pump would produce a rate of 0.04 cfs and 17 gallons per minute.

Process	Basin Sequence	Draft	Owner	Source	POD/POU	SWNE	SE NE	Total Acres	Review Comments
Water Right	95-16901	Y	HESTER, STEVEN	COEUR D ALENE LAKE	POD		X	0	Permit under review
Water Right	95-16901	Y	HESTER, STEVEN	COEUR D ALENE LAKE	POU	X		0	Permit under review
Adjudication Recommendation	95-11600		DRECHSEL BROTHER INC	COEUR D ALENE LAKE	POD	X		0	South of Permit
Adjudication Recommendation	95-11600		DRECHSEL BROTHER INC	COEUR D ALENE LAKE	POU	X		0	South of Permit
Adjudication Recommendation	95-12867		LYTLE, RENEE A	COEUR D ALENE LAKE	POD		X	0	South of Permit
Adjudication Recommendation	95-12867		LYTLE, RENEE A	COEUR D ALENE LAKE	POU	X		0	South of Permit
Adjudication Recommendation	95-12947		HESTER, STEVEN	GROUND WATER	POD	X		0	DIRECT OVERLAP * Different source
Adjudication Recommendation	95-12947		HESTER, STEVEN	GROUND WATER	POU	X		0	DIRECT OVERLAP * Different source
Adjudication Recommendation	95-12962		HOGAN, HELEN MARIE	COEUR D ALENE LAKE	POD	X		0	South of Permit
Adjudication Recommendation	95-12962		HOGAN, HELEN MARIE	COEUR D ALENE LAKE	POU	X		0	South of Permit
Adjudication Recommendation	95-12965		GILLUM, MICHAEL	COEUR D ALENE LAKE	POD		X	0	South of Permit
Adjudication Recommendation	95-12965		GILLUM, MICHAEL	COEUR D ALENE LAKE	POU	X	X	0	South of Permit
Adjudication Recommendation	95-13552		LYTLE, RENEE A	GROUND WATER	POD	X		0	South of Permit
Adjudication Recommendation	95-13552		LYTLE, RENEE A	GROUND WATER	POU	X	X	0	South of Permit

License review for 95-16901 POU and POD overlap
Steven Visosky10-16-2015