

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

A. GENERAL INFORMATION

Permit No: 91-7898

Exam Date: 12/3/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: Benjamin Scheffellaier And/Or Melissa Scheffellaier
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No: <Address>

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: N031624 *
- *Refund is due as there was an overpayment of \$50

4. **SOURCE** TRIBUTARY
- Avery Creek St. Joe River
- Method of Determination: Application information and aerial photography.
- Change in Source: ☐ Yes ☒ No

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Overlap? ☒ Yes ☐ No

Water Right No.	Source	Purpose of Use	Basis
91-7170	Ground water	Municipal	Decreed 11/13/2015

Comments: Water right 91-7170 is a direct overlap with the place of use associated with this permit. Water right 91-7170 owned by Avery Water and Sewer District is a municipal water right and may be delivering the domestic water for inside use at the homes related to this permit. There are no other direct overlaps. The description of the six other water rights and three permits in the two QQs listed with this permit are attached in an overlap spreadsheet.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other documented water rights that share the same point of diversion. There are three other water rights and one permit that have a POD in the QQ listed on this permit. Water right 91-7687 has a POD on Avery Creek but the location is to the north, permit 91-7900 is also on Avery Creek and it is to the south of this permit. Water rights 91-7669 and 91-7677 are both from different sources and are located to the south.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	%	%	%	Sec.	TWP	RGE		County
Avery Creek	2		NW	NE	15	45N	05E	B.M	Shoshone

Method of Determination: See notes in "Narrative" for more information regarding Point of Diversion and Government Lot. Location confirmed through BLM surveys.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) 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	
45N	05E	15	X	X															
			L1	L2															

. **LOCATION OF PLACE(S) OF USE:** 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	
45N	05E	15	X	X															
			L1	L2															

Method of Determination: Application information, aerial photography, and BLM maps

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

3.

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

Application stated 40 gallon plastic catch basin with a 2" flex suction hose. Electric pump and pressure tank on applicants property.

☒ 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
					Unknown

*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: In-office field exam. No measurements takenE. **FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Standard Domestic = 0.04 cfs

Permit allowed Domestic = 0.04 cfs

Permit allowed Fire Protection = 0.20 cfs

Theoretical calculation = 0.23 cfs (see attached)

License recommended for Domestic = 0.04 cfs

License recommended for Fire protection = 0.20 cfs

F. **VOLUME CALCULATIONS**

Volume Calculations for Domestic:

According to processing memo #22, domestic use when irrigation is separated is 0.6AF of annual water use per house. This permit is for external use only at four homes. $4 \times 0.6 \text{ AF} = 2.4 \text{ AF}$

As this is a domestic use and volume is not limited on a condition, an annual volume should be listed on the license.

License recommended for Domestic is 2.4 AF for this permit.

Volume Calculation for Fire Protection

There are no volume limits for Fire Protection used on an existing fire.

G. PURPOSE OF USEIrrigation ☐ Yes ☒ No # Stock _____ Domestic # of Homes 4 homes external use

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

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

H. NARRATIVE/REMARKS/COMMENTS

Permit 91-7898 qualifies for an in-office license exam as it is for a small diversion rate (0.04 cfs) for domestic external use at four homes and fire protection.

One taxlot is owned by Benjamin Scheffellaier and the three other taxlots associated with the permit are owned by Ben and Melissa Scheffellaier according to information updated on 5/4/2015 by Shoshone County.

There is one direct overlap with the place of use owned by Avery Water and Sewer District which may be delivering water for internal domestic use at the four homes. There are no overlaps with the point of diversion.

A discrepancy was found with the exact location of the point of diversion (POD) during the license review. The location of the POD listed on the permit is L2 (NWNE) Sec 15, Twp 45N, Rge 05E, Shoshone County. According to our mapping imagery, the POD appears to be located in the NWNE Sec 15, Twp 45N, Rge 05E, Shoshone County. The difference being the POD does not appear to be in L2 (the boundary line is within a few feet of POD). Research was done with the survey maps from the Bureau of Land Management. Maps were compared between mineral surveys and tract surveys in relationship to a land swap with the Nez Pierce-Clearwater National Forests. It has been determined with the assistance of the Department's GIS staff that the location of the POD was correctly labeled on the permit as L2 (NWNE) and a change in legal description of the POD is not required. BLM maps that were used to confirm the location are attached.

The point of diversion is not located on property owned by the permit holder as stated on the application. The permit holder submitted an approved permit from Shoshone County to use the public right of way to access the point of diversion. Condition 004 related to right of way or easements should remain on the license to clarify the rights of the license holder.

Condition; Condition 239 should be removed for licensing and replaced with condition 240 and X04 per condition standards. Condition 187, 077, WB9, and 004 should be carried over to licensing. In regards to condition X15 and fish screening, this in-house exam is unable to verify if the condition has been met and therefore should be carried over to licensing.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Domestic	01/01 to 12/31	0.04 cfs	2.4 AF
Fire Protection	01/01 to 12/31	0.20 cfs	
Total Diversion		0.20 cfs	2.4 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

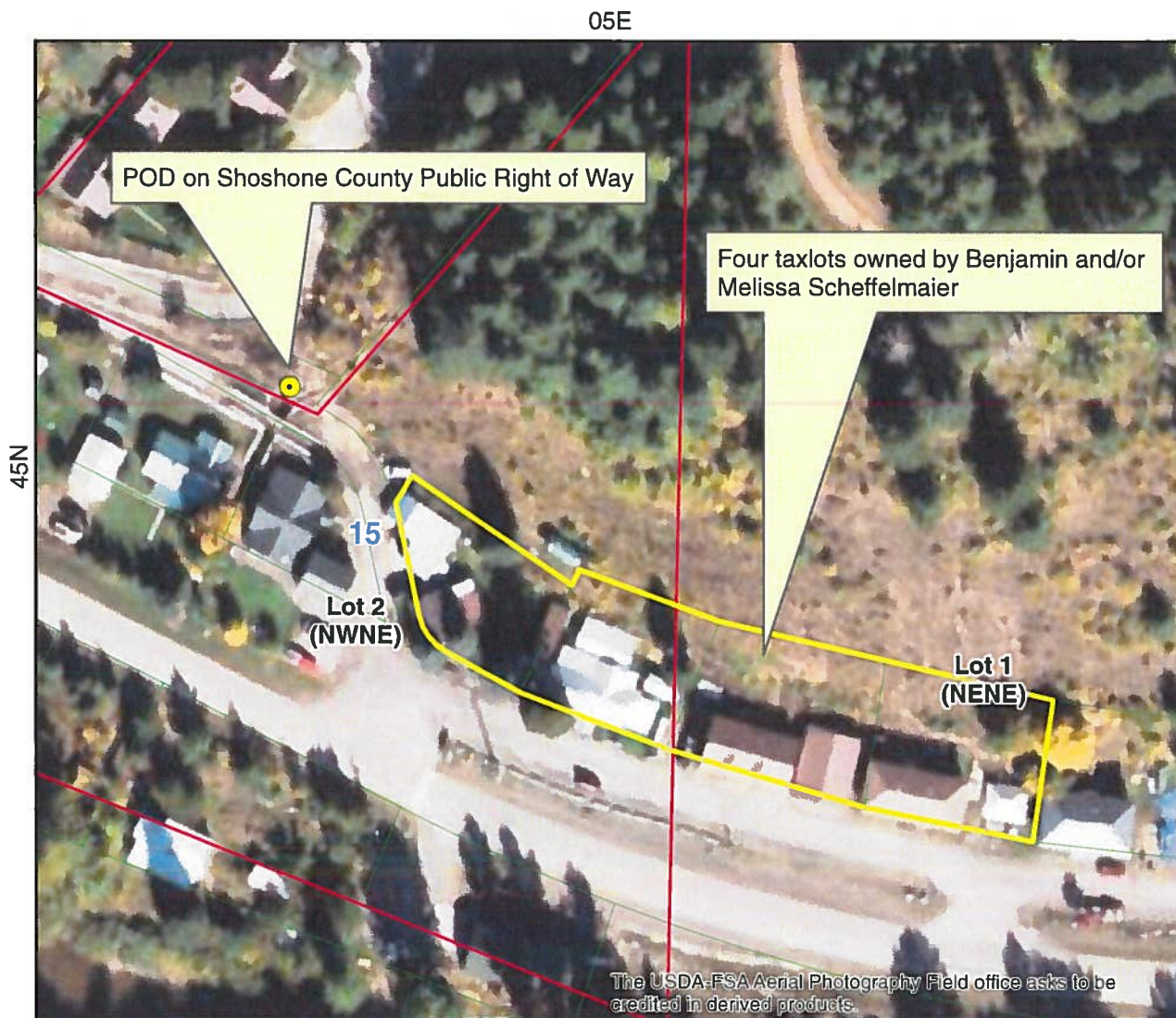
Other: < >

I. AUTHENTICATION – Steven Visosky, Water Resource AgentField Examiner's Name Steven Visosky Date 12/03/15Reviewer Camille Skaggs Date 12-03-2015

Attachment to in-office license review report

91-7898

Map created by Steven Visosky on December 3, 2015

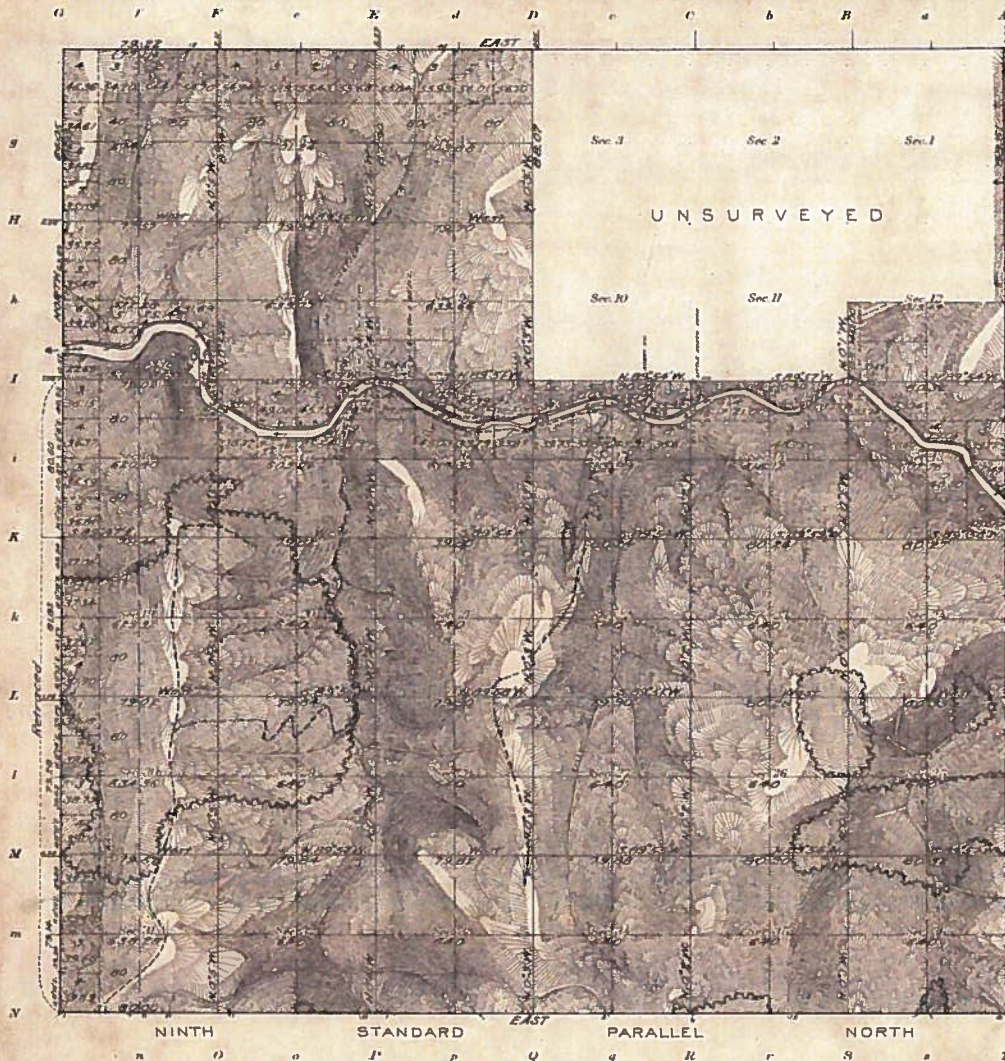


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Taxlots
-  Quarter Quarters

0 0.0125 0.025 0.05 Miles



Township No 45 North, Range No 5 East of the Boise Meridian, Idaho.



Survey Designated	By Whom Surveyed	Contract No.	Date	Amount of Survey	When Surveyed
E. Boundary	Chas. L. Campbell	220	Dec. 20, 1904	6 8 01	Aug. 29, 1911
Standard Parallel	"	"	"	6 0 0	Aug. 7, 1911
W. Boundary, rest	"	"	"	4 0 85	Oct. 22, 1911
Subdivisions	"	"	"	53 56 64	Sept. 4, 1911
Meanders	"	"	"	14 37 75	Oct. 25, 1911
Corrections	"	"	"	0 15 58	Sept. 3, 1911
N. Boundary	Albinus N. Kinnell	241	March 28, 1905	5 75 84	June 5, 1905
W. Boundary	Harold A. Runkle	221	Jan. 30, 1901	2 6 5	May 6, 1901

The above map of Township No. 45 North, Range No. 5 East of the Boise Meridian, Idaho, is strictly conformable to the field notes of the survey thereof on file in this office which have been examined and approved.

I. S. Surveyor General's Office,
Boise, Idaho, November 18, 1912.

Daniel A. Ulter
Surveyor General.

SHOSHONE COUNTY 079
COEUR D'ALENE DISTRICT



...of TSS and turbidity curves
of these as other factors of water

FILE REF: ID# 62000505/670005a.png	
CONVERTED TYPF	86/12/268
LAST UPDATED:	8/6/2068
QAVC #1	QAVC #2
POSTED TO PUBLIC RECORDS:	
BY:	
PUBLIC LAND SURVEY SYSTEM (PLSS):	
BLM GCS# ACQUIRED	86/26/265
OTHER:	NA
PROJECTED COORDINATE SYSTEM	
UTM ZONE 11N NAD 1983	
NOTES:	
USE PLATS:	

County Map:
T. 45 N
R. 5 E

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 91-7898
 Reviewer: Steven Visosky
 Date of Review: 12/2/2015

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
5
0
20
40
0.27
123

Well #2
5
0
20
50
0.23
102

Well #3
5
0
20
60
0.19
87

0.23
104.05

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 five horsepower pump was used in the theoretical as the information submitted in the application stated a two inch flexible suction hose was used in conjunction with an electric pump and pressure tank on the applicants property. A five HP pump would supply enough rate to cover the fire protection rate (0.20 cfs), cover 20 feet of lift from the stream point of diversion to the place of use and have sufficient pressure to cover friction loss pumping to the place of use.

Process	Basin Sequence	Dr aft	Owner	Source	POD/POU	NENE	NWNE	Total Acres	License review comments
Water Application	91-7900		JERROD SCHEFFELMAIER, BRANDI SCHEFFELMAIER	AVERY CREEK	POU		X	0	Fire protection and domestic to the west of the permit
Water Permit	91-7898	N	SCHEFFELMAIER, BENJAMIN; SCHEFFELMAIER, MELISSA	AVERY CREEK	POU	X	X	0	Permit under review
Water Permit	91-7900	Y	SCHEFFELMAIER, BRANDI; SCHEFFELMAIER, JERROD	AVERY CREEK	POU		X	0	Fire protection and domestic to the west of the permit
Water Permit	91-7903	N	MUELLER, CONNIE E; MUELLER, KENNETH A	ST JOE RIVER	POU	0.9	0.1	1	Fire protection and irrigation south of permit
Water Permit	91-7903	N	MUELLER, CONNIE E; MUELLER, KENNETH A	ST JOE RIVER	POU	X	X	0	Fire protection and irrigation south of permit
Water Right	91-7170	N	AVERY WATER & SEWER DISTRICT	GROUND WATER	POU	X	X	0	Municipal water right -DIRECT OVERLAP
Water Right	91-7628	N	UNITED STATES OF AMERICA ACTING THROUGH	GROUND WATER	POU	X	X	0	Domestic from groundwater north of permit
Water Right	91-7651	N	SPOONER, JEFF; SPOONER, PAULA	ST JOE RIVER	POU	X		0	Domestic from St. Joe River south of permit
Water Right	91-7661	N	TURLEY, KAREN; TURLEY, MILTON	ST JOE RIVER	POU	X		0	Domestic from St. Joe River south of permit
Water Right	91-7669	N	MILLER, JANICE	KELLEY CREEK	POU		X	0	Domestic from St. Joe River southwest of permit
Water Right	91-7677	N	BURNS, SHASTA; BURNS, STEVE	ST JOE RIVER	POU		X	0	Domestic from St. Joe River southwest of permit
Water Right	91-7687	N	AVERY CITIZENS COMMITTEE	AVERY CREEK	POU		0.5	0.5	Irrigation west of permit
Water Right	91-7687	N	AVERY CITIZENS COMMITTEE	AVERY CREEK	POU		X	0	Domestic west of permit

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NW NE	License review comments
Water Application	91-7900		JERROD SCHEFFELMAIER, BRANDI SCHEFFELMAIER	AVERY CREEK	POD	X	Same source but location is just south of this POD
Water Permit	91-7898	N	SCHEFFELMAIER, BENJAMIN; SCHEFFELMAIER, MELISSA	AVERY CREEK	POD	X	Permit under review
Water Permit	91-7900	Y	SCHEFFELMAIER, BRANDI; SCHEFFELMAIER, JERROD	AVERY CREEK	POD	X	Same source but location is just south of this POD
Water Right	91-7669	N	MILLER, JANICE	KELLEY CREEK	POD	X	Different source south of permit
Water Right	91-7677	N	BURNS, SHASTA; BURNS, STEVE	ST JOE RIVER	POD	X	From river south of permit
Water Right	91-7687	N	AVERY CITIZENS COMMITTEE	AVERY CREEK	POD	X	~~Same~~ Same source north of permit