

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11311

Exam Date:

1. Current Owner: JOSE J JARA
1188 W LEISKE DR
RIALTO CA 92376
(909) 648-2435

2. Accompanied by: Office exam

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

SPOKANE RIVER
UNNAMED STREAM

TRIBUTARY

COLUMBIA RIVER
SPOKANE RIVER

B. OVERLAP REVIEW

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

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

SPOKANE RIVER	L3 NW1/4NE1/4	Sec. 10,	Twp 50N,	Rge 05W, B.M.
KOOTENAI County				
SPOKANE RIVER	L3 NW1/4NE1/4	Sec. 10,	Twp 50N,	Rge 05W, B.M.
KOOTENAI County				
UNNAMED STREAM	L3 NW1/4NE1/4	Sec. 10,	Twp 50N,	Rge 05W, B.M.
KOOTENAI County				

Method of Determination: Owner's description

2. 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	10			1.7														1.7
					L 3														

Total Acres: 1.7

Method of Determination: GIS/Owner's description

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.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Unnamed Stream		2			
Spokane River (dock)		2			
Spokane River		2			

*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
Theoretical						

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

E. FLOW CALCULATIONS X Additional Computation Sheets Attached

Measured Method: Theoretical. See attached form.

The amount calculated from the theoretical is 0.27 cfs for all three pumps.

The permit limited them to 0.09 cfs

The acres are 1.7 acres X 0.03 cfs/acre = 0.05 cfs

I am recommending 0.05 cfs for this license.**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.7 \times 3 = 5.1 \text{ af}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 5.1$$

This is a surface water right, so no volume is required.

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Three diversions supply sprinkler system to irrigate 1.7 acres. Original 3 acres is the entire parcel. Each diversion has a 2 hp pump supplying ½" and ¾" plastic pipe. Rate was calculated from theoretical equation and is sufficient to provide the 0.05 cfs to be licensed (see attached sheet). Water is used for lawn and garden.

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	0.050 CFS	
<u>Totals:</u>		0.050 CFS	

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: Michael Ciscell Senior GIS Analyst

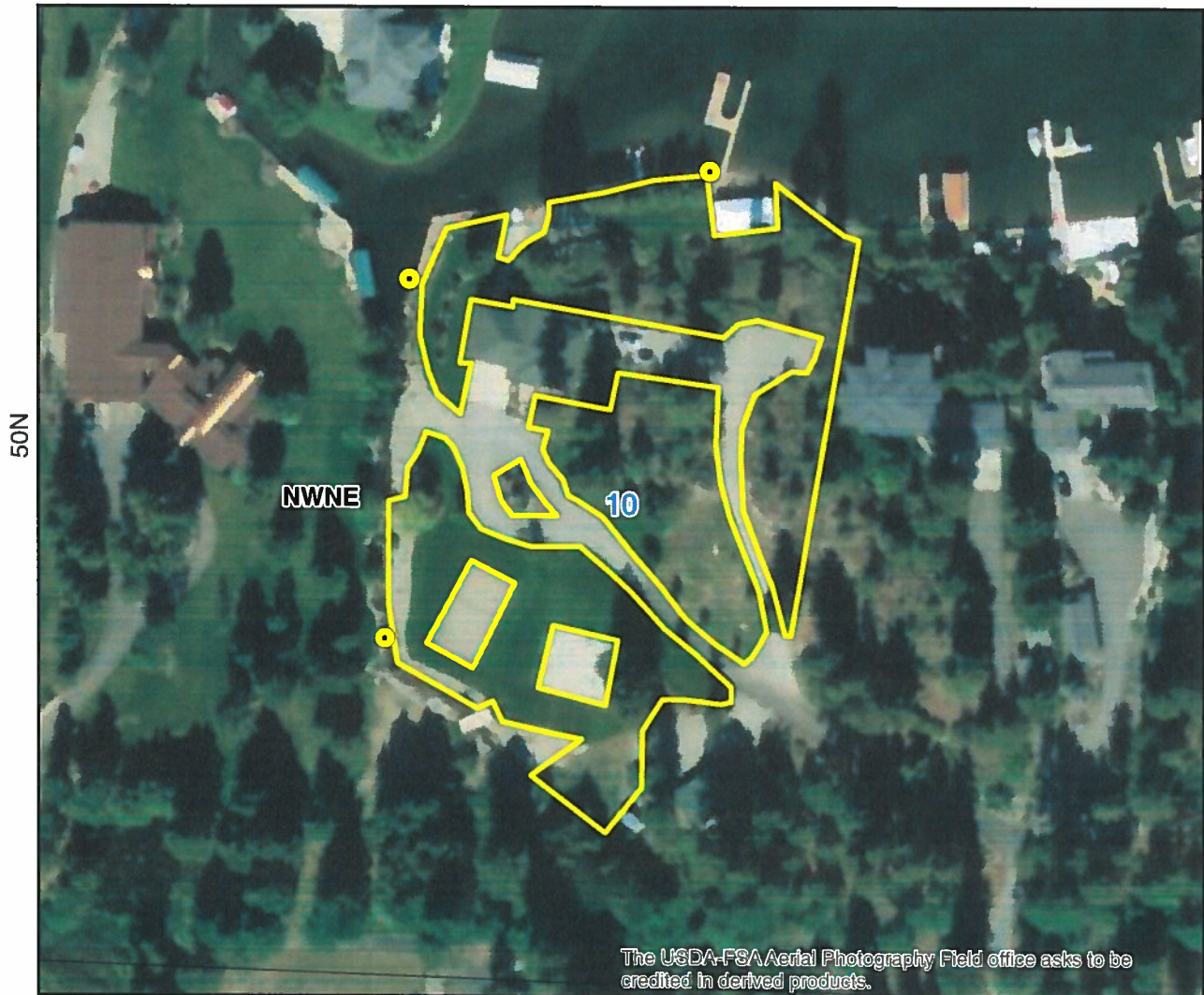
Field Examiner's Name  Date 1/27/2015

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Field Exam for Water Right License
95-11311

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

05W



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

0 0.015 0.03 0.06 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)					
Water Right No.:	95-11311				
Reviewer:	Michael Ciscell				
Date of Review:	1/27/2015				
P/D No.:		Pump 1	Pump 2	Pump 3	
PUMP HORSEPOWER		2	2	2	
BOOSTER HORSEPOWER		0	0	0	
PUMPING LEVEL		20	20	20	
DISCHARGE PRESSURE		50	50	50	
RATE OF FLOW (cfs)		0.09	0.09	0.09	AVE 0.27
(gpm)		40.8	40.8	40.8	122.43
The above calculates the formula =		Q =	$8.8 * (\text{Efficiency}) * \text{hp}$ $\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}$		
Assumptions:	%70 efficiency. No Friction				
Examiners Notes:	Data collected on 12-17-2014 through call to applicant/owner. All three pumps are 2 hp so each would be capable of providing the water necessary to meet the 0.05 cfs limit of the license. Water is then delivered through 1/2" and 3/4" pipe to sprinkler systems. Used an average pressure of 50 psi which is a standard for most domestic systems. Lif was determined from the topo map of the area.				

State of Idaho
Department of Water Resources

Attachment To Water Right License

95-11311

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.

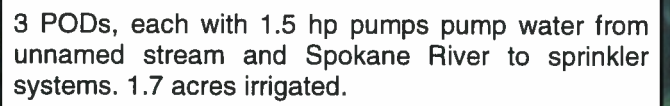
05W



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

0 0.015 0.03 0.06 Miles





The USDA-FSA Aerial Photography Field office asks to be credited in derived