

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 78-12502

Exam Date: 2/26/20

## 1. Current Owner:

JUDY A CARSON CARROLL PO BOX 212 POLLOCK ID 83547 AND  
KERRY M CARROLL PO BOX 212 POLLOCK ID 83547

3. SOURCE:

LITTLE SALMON RIVER

Tributary

SALMON RIVER

Method of Determination: Permit application, ArcMap, aerial imagery, and USGS topography

**B. OVERLAP REVIEW**

## 1. Other water rights with the same place of use:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

Comments: All overlapping rights within the same QQ are pertinent to neighboring properties

## 2. Other water rights with the same point-of-diversion:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

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

LITTLE SALMON RIVER NE¼ SE¼, Sec. 20, Twp 23N, Rge 01E, B.M. IDAHO County

Method of Determination: Permit application, ArcMap, aerial imagery, and USGS topography

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
23N	01E	20													0.6				0.6

Total Acres: 0.6

Method of Determination: Permit application, ArcMap, aerial imagery, and USGS topography

## 3.

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

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

N/A Photo of Diversion and System Attached

## 4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A	Red Lion	2Hp	N/A	N/A	N/A

**D. FLOW MEASUREMENTS**

In office field exam so flow measurements not applicable.

**E. FLOW CALCULATIONS**

Irrigation Permit: 0.02 cfs  
 B.U. Standard Allowance: 0.03 cfs x 0.6 ac= 0.02 cfs  
 B.U. Proof Fee: \$50 → 0.00 cfs to 0.20 cfs

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**License Recommendation** 0.02 cfs

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.65 \text{ ac}) \times (4.5 \text{ afa}) = 2.7 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.02 \text{ cfs}) \times (289 \text{ days}) \times 1.9835 = 11.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.7 \text{ AF}$$

\*Per Beneficial Use Exam Rules, irrigation from river is exempt from reporting total volume.

**G. NARRATIVE/REMARKS/COMMENTS**

The field exam was conducted in-office February 26, 2020 by Kate Huelse. Based on the information provided in the water right file, this qualifies for an in office field exam.

Permit 78-12502 authorized the diversion of 0.02 cfs from the Little Salmon River tributary of the Salmon River for irrigation use in Section 20, Township 23 North, Range 01 East, SE 1/4, NE 1/4.

The proof of beneficial use was submitted on October 8, 2019 by Judy and Kerry Carroll. The application states that they will be pumping for irrigation of 0.56 acres for fruit trees, flowers, and lawn. The applicant will be using a Red Lion 2hp pump to divert up to 0.02 cfs. Per the standard irrigation season the applicants will be licensed to pump from February 15<sup>th</sup> to November 30<sup>th</sup>. Current Idaho County tax lot data represent Judy Carson Carroll as the land owner pertinent to the place of use and point of diversion.

Spoke with Kerry Carroll on March 9, 2020, he confirmed that the fish screen was installed and that it meets the Idaho Fish and Game requirements. A photo of the fish screen was sent via email the evening of March 9<sup>th</sup> and has been added to the water right file.

On October 31, 2019 Water Resource Agent Dan Nelson posted a memo for the review of in-house licensing as he believed performing an in-house beneficial use exam would not accurately reflect beneficial use due to a lack of updated aerial imagery. After reviewing the 2013 and 2017 aerial imagery available on ArcMap it is clear that the applicant has been diverting water to irrigate their property. ArcMap tools were used to measure irrigation use of 0.6 acres. I believe this to be an accurate representation of beneficial use, the diversion rate I have recommended for this license is 0.02 CFS.

Have conditions of permit approval been met?   X   Yes        No

**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	02/15 to 11/30	0.02 CFS	

**Totals:** 0.02 CFS

**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

**I. AUTHENTICATION**    Kate Huelse - Water Resource Agent

Field Examiner's Name Kate Huelse    Date 3/10/20

Reviewer Patricia Wiley    Date 3-12-20



Fish screen required  
per condition 029,

Spoke with Kerry  
Carroll over the  
phone March 9,  
2020, Mr. Carroll  
confirmed that this  
fish screen complies  
with Idaho Fish and  
Game requirements.

March 10, 2020

WRA Kate Hulse

State of Idaho  
Department of Water Resources  
**Beneficial Use Exam (2017)**  
78-12502



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






0 0.035 0.07 0.14 Miles





State of Idaho  
Department of Water Resources  
**Beneficial Use Exam (2013)**  
78-12502



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

0 0.035 0.07 0.14 Miles

