

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12364

Exam Date: 8/12/2013

1. Current Owner: PEGGY BRYAN
PO BOX 565
MCCALL ID 83638
(208)634-5532
2. Accompanied by: Peggy Bryan
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. **SOURCE**

LITTLE SALMON RIVER

TRIBUTARY

SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

LITTLE SALMON RIVER

NE1/4SE1/4

Sec. 20, Twp 23N, Rge 01E, B.M.

IDAHO County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
23N 01E 20													X				

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
N/A	A.O. Smith	1.5	Unknown	Flotec	1 1/2"

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Pitot Tube						

2. Measurements: Pitot tube too small to obtain irrigation system operating pressure. Assume an irrigating operating pressure of 30 psi.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1.5/30 + (2.31 \times 30) = 0.09 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.09 \text{ cfs} > 0.02 \text{ cfs } Q(\text{permit})$$

$$HP = 1.5$$

$$Z = 30' \text{ (Estimated)}$$

$$P = 30 \text{ psi (Assumed)}$$

Appears that the current pumping system can attain the permit diversion rate of 0.02 cfs.

Recommend the permit diversion rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: Domestic – 1 home (External Use)

$$V = 1 \times 0.6 \text{ AF} = 0.60 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 1.5-hp centrifugal pump diverts water from the Little Salmon River through a section of 1 ½" PVC screened suction line. Water is discharged through 1 ½" PVC and ¾" PVC supply lines to the pressurized irrigation system.

IRRIGATION SYSTEM:

The pressurized irrigation system is comprised of a variety of rotary, spray, and drip-line sprinklers. The pressurized irrigation system is not operated by a sprinkler control system. The pressurized irrigation system operates all of the sprinklers at once.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 78-12364.

Place of Use: There are no place of use overlaps for Water Right Permit No. 78-12364.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.02	&/or	N/A
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.09(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.02	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	02/15 to 11/30	0.020 CFS	0.60 AFA
<u>Totals:</u>		0.020 CFS	0.60 AFA

2. Recommended Amendments

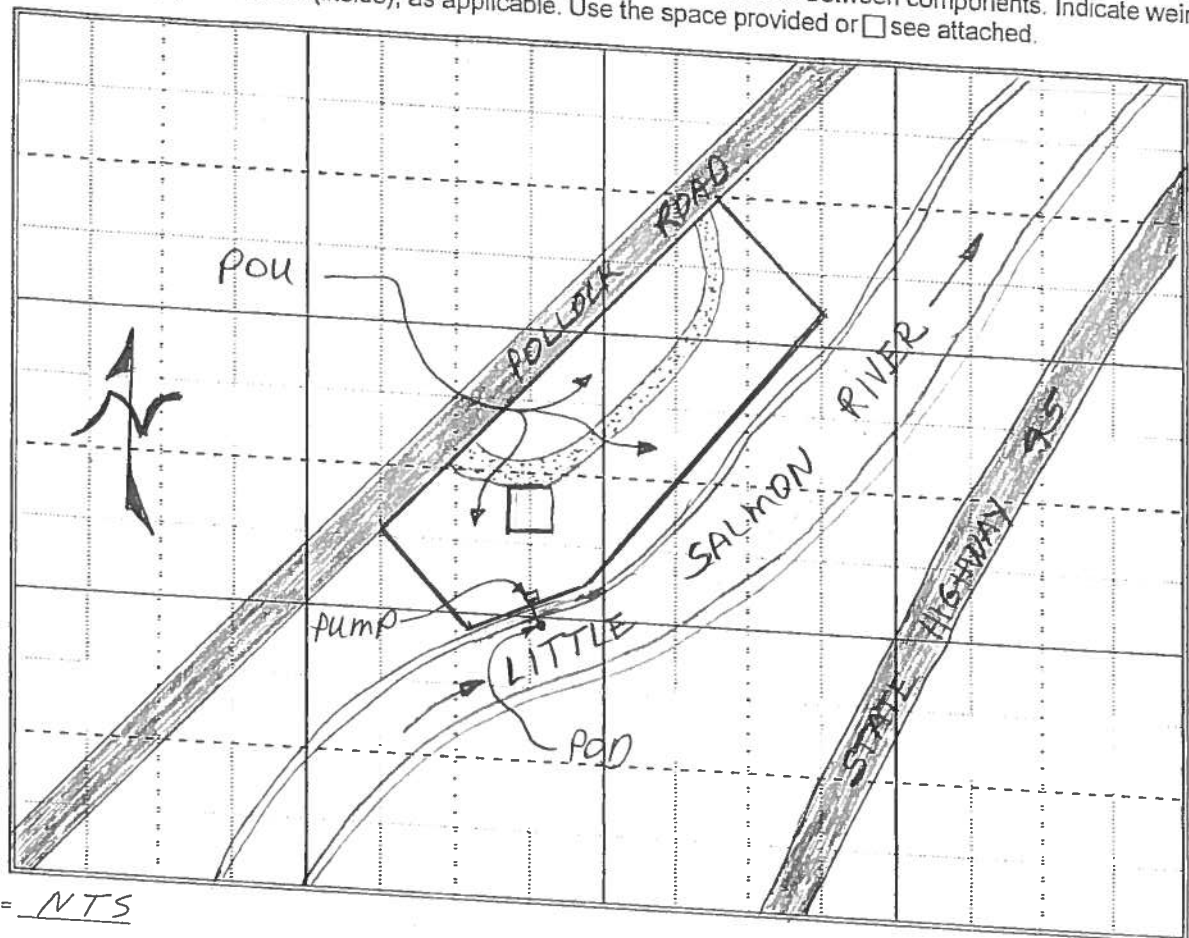
☐ Change P.D. as reflected above
 ☐ Add P.D. as reflected above
 ☒ None

☐ Change P.U. as reflected above
 ☐ Add P.U. as reflected above
 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 12/11/13
 Reviewer _____ Date _____

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 78-12364

Field Exam Date: 8-12-13

PLS: NE1/4, SE1/4 Section 20, T.23N, R.01E.

Field Examiner: RC



Point of Diversion: View easterly of a 1 1/2" suction line in the Little Salmon River. A 1 1/2 horsepower centrifugal pump diverts water through the 1 1/2" suction line to the right holder's pressurized irrigation system to irrigate lawn, landscaping, and garden areas.



View northerly of the 1 1/2-hp centrifugal pump located on the top of the river bank. Water is discharged through a 1 1/2" PVC supply line and a 3/4" PVC supply line to the right holder's pressurized irrigation system.



Place of Use: View northerly of the pressurized irrigation system irrigating a section of lawn and landscaping north of the home. The trees are irrigated with drip-lines. The right holder does not operate the pressurized irrigation system with a sprinkler timer. All sprinklers are in operation at the same time.



Place of Use: View southerly of the pressurized irrigation system irrigating a small section of lawn and a garden area.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

July 25, 2013

Peggy Bryan
P.O. Box 565
McCall, ID 83638

RE: Scheduling Field Exam for Water Right Permit No. 78-12364

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of August 12, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.02 cfs from the Little Salmon River for domestic use for 1 home.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 2, 2013, to conduct the exam during the week of August 12, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.