

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12404
Exam Date: 05/28/2019

1. Current Owner:
DENNIS DEBILL 5198 HWY 95 NEW MEADOWS ID 83654 AND
KAYLA ADAMS 5198 HWY 95 NEW MEADOWS ID 83654
2. Accompanied by: Dennis DeBill
Phone No: 208-628-2353
Address: 5198 Hwy 95, New Meadows, ID
Relationship to permit Holder: Same

3. **SOURCE:**
LITTLE SALMON RIVER

Tributary
SALMON RIVER

Method of Determination: Field Observation, USGS Topo

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: None

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

Comments: None

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

LITTLE SALMON RIVER SE¼ NW¼, Sec. 2, Twp 21N, Rge 01E, B.M. IDAHO County

Method of Determination: Garmin Handheld GPS, Aerial Imagery, ArcMap GIS Tools

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	
21N	01E	2								0.4									0.4

Total Acres: 0.4

PLACE OF USE: FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
21N	01E	2								X	X								

Method of Determination:

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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A	N/A	3/4	N/A	North Star	2"

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Panametrics	Ultra-Sonic	GE	PT878	GAA1620004	N/A	04/19

2. Measurements: Used the Panametrics to collect flow measurements while sprinkler system was running.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Transducer, ultra-sonic
 Measured Rate: 0.071 cfs→0.07 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: Irrigation use from stream or spring exempt from volume reporting requirements per B.U. exam rules IDAPA 37.03.02 rule 35.

2. Volume Calculations for Other Uses: Fire Protection is exempt from volume reporting requirement.

G. NARRATIVE/REMARKS/COMMENTS

Field exam was conducted on May 28, 2019 by agent Justin Shearer. I was accompanied by Dennis DeBill, permit holder and property owner. Kayla Adams is also a current owner on the permit however she was not present during the exam. Idaho tax lot data matches at the time of exam.

DeBill and Adams divert water from the Little Salmon River for irrigation and fire protection purposes. At the time of the exam a portable 3/4 motor and 2" North Star pump were providing water to an 11 sprinkler system. The point of diversion had a fish screen installed and maintained that had been provided by Idaho Fish & Game. Flow measurements were recorded using a GE Panametrics measuring device. A straight length of pipe was found near the point of diversion suitable to gain an accurate reading for sprinkler irrigation. A measured rate of 0.07 cfs was observed and recorded. A brief in office

analysis of Rainbird sprinkler performance based on the models of sprinklers observed during the exam determined that at an estimated 40 psi, the 11 sprinklers together are rated to 0.11 cfs. This analysis further solidifies the observed measurement because it places the measured rate within the rated range of the sprinkler system.

Overlap review found no POD or POU overlap. The permit was approved for the irrigation of a total of 10 acres, however, aerial imagery and ArcMap GIS tools only measure an irrigated area of 0.4 acres. As a result, the measured acreage is the limiting factor my recommendation. At 0.03 cfs/acre x 0.4 acres, I am only able to recommend 0.01 cfs for the irrigation use. The irrigation system is intended to also act as the fire protection system in the event of a fire as most of the sprinklers have been placed along the perimeter of the property and spray in towards the house and yard. I am recommending the measured rate of the system of 0.07 cfs for fire protection.

Condition 004 was removed because the POD was verified to be on land under ownership of the permit holder. Condition 26A was removed as per licensing standards. Condition 121 was replaced with condition 103 as per department standards. Condition R62 was replaced with R66 to account for a higher approvable rate/acre. Condition 01M remains on license since it was on the permit.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
IRRIGATION	04/01 to 10/31	0.01 CFS	
FIRE PROTECTION	01/01 to 12/31	0.07 CFS	

Totals: 0.07 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 ☒ None

I. AUTHENTICATION

Justin Shearer - Water Resource Agent, Senior

Field Examiner's Name Justin Shearer Date 8/19/19

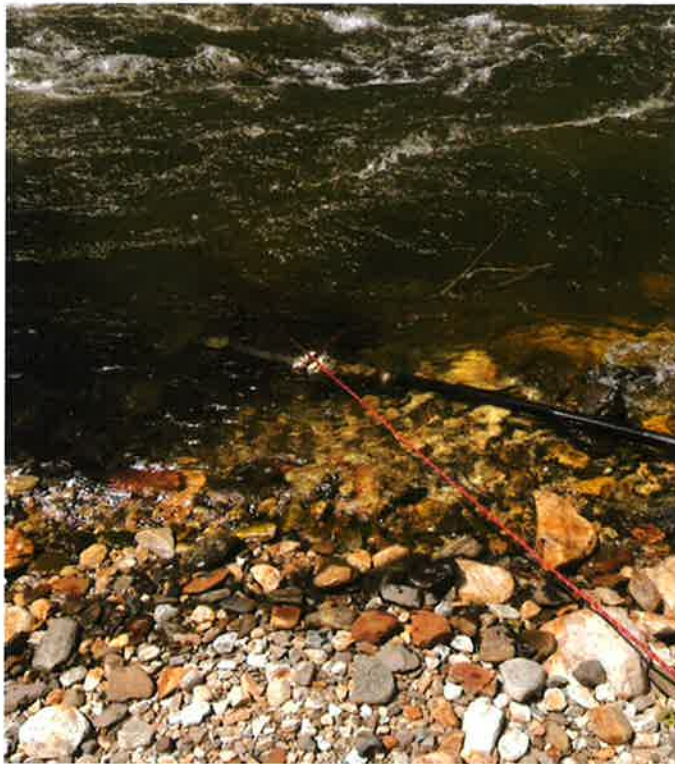
Reviewer Patricia Kelly Date 8-19-2019

78-12404 System Diagram





Point of Diversion
on Little Salmon
River



Point of Diversion
Using Fish Screen



Close-Up Pic of
Fish Screen Being
Used at POD



Portable Pump



Pump Specs



Rainbird P5R+
 Sprinkler Head
 (plastic heads)



Close-Up of Nozzle
On the P5R+ Heads



Rainbird 35A-ADJ-
TNT-B Sprinkler
Head (brass heads)



Pic of POU



Pic of POU



Pic of POU



State of Idaho

DEPARTMENT OF WATER RESOURCES

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BRAD LITTLE
Governor

GARY SPACKMAN
Director

April 29, 2019

KAYLA ADAMS And/Or
DENNIS DE BILL
5198 HWY 95
NEW MEADOWS, ID 83654

COPY

RE: Scheduling Field Exam for Water Right Permit No. 78-12404

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.200 CFS** from **LITTLE SALMON RIVER** for **FIRE PROTECTION, & IRRIGATION** uses. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Justin Shearer
Water Resource Agent, Sr.

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map