

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15792
Exam Date: 06/10/2020

1. Current Owner:
MARK WITTMAN 6045 CACTUS LN LEWISTON ID 83501 AND/OR
JOAN WITTMAN 6045 CACTUS LN LEWISTON ID 83501
2. Accompanied by Mark Wittman
Phone No: 208-553-8709
Address: Same as above
Relationship to permit Holder: Permit Holder.

3. **SOURCE:**
TAMMANY CREEK

Tributary
SNAKE RIVER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
85-15767	GROUND WATER	IRRIGATION/STOCKWATER	PERMIT IN PROCESS FOR LICENSE

Comments: WR 85-15792 and this water right, 85-15767, have overlapping irrigation POU, but use separate water sources. Condition X35 was applied to mitigate overlap concerns.

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

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

TAMMANY CREEK SE¼ SE¼, Sec. 23, Twp 35N, Rge 06W, B.M. NEZ PERCE County

Method of Determination: GPS; POD located at -117°02.801, 46°21.324.

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	
35N	06W	23																4.3	4.3

Total Acres: 4.3

Method of Determination: Field exam and Arcmap

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X 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

☒ X 1:24,000 or greater.☒ X Aerial Photo Attached (required for irrigation of 10+ acres).☒ X 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					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
GE PANEMETRIC	ULTRASONIC		PT878	PCC1316134		4/2/2019

2. Measurements: flow measurement taken using GE Panemetric Ultrasonic Flowmeter (see attached photographs)

E. FLOW CALCULATIONS

Measured Method: flow rate determined by GE Panemetric Ultrasonic Flowmeter = 0.20 cfs

Starting gallons on meter = 3,392.2

Ending gallons on meter = 4,278.9

 $4,278.9 - 3,392.2 = 886.7 \text{ gpm} / 10 \text{ minutes} = 88.67 \text{ gpm}$ or **0.20 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.3 \text{ acres} \times 4.0 \text{ afa} = 17.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.20 \text{ cfs} \times 294 \text{ days} \times 1.9835 = 116.6$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 17.2 \text{ af}$$

2. Volume Calculations for Other Uses:

This is a surface water right, so no volumes will be included on the water right license.

G. NARRATIVE/REMARKS/COMMENTS

The field exam conducted on 6/10/2020 with the applicant, Mark Wittman, showed water from Tammany Creek being used for irrigation purposes. At POD, applicant used a submersible pump to serve a water pipe above ground sprinkler system irrigating at POU. An adequate surface area of pipe was located near the POD to complete flow measurements using a GE

Panemetric Ultrasonic Flowmeter (S/N PCC1316134). Flowmeter measurements derived the rate of diversion to be **0.20 cfs**, which will be carried forward to licensing. Applicant diverted water from a small containment pond that qualifies for the 24-HR impoundment rule, and water flows from Tammany Creek, to impoundment pond, and back to Tammany creek enabling large amount of silt to settle throughout the process. Applicant irrigates in compressed time periods using a long water line pushing water up-hill to the highest irrigated field, necessitating the larger diversion rate than the department standard of 0.03 cfs per acre

The 10 acres at POU applied to permit was adapted to 4.3 acres concluding field exam using arcmap, which was used to trace out irrigated acreage at POU. As this is a surface water source right, there will be no volume applied to annual nor maximum diversion volume at time of licensing. Applicant pumped water up hill on a main trunk water pipe line, and at intervals fed branches enabling rotational irrigation of three main fields.

Condition 26A was removed from license. Condition R64 was replaced with R66 identifying irrigation of no more than 0.03 cfs per acre nor more than 4.0 afa per acre at the field head gate at POU. Condition X35 was updated to reflect 4.3 acres of irrigation versus the 10.0 acres authorized at time of permit. All other conditions remain on license. WR 85-15792 and this water right, 85-15767, have overlapping irrigation POU, but use separate water sources. Condition X35 was applied to mitigate overlap concerns limiting both water rights when combined to 0.03 cfs per acre or 4.0 afa per acre, and the irrigation of 4.3 acres at POU. There are no other overlap concerns.

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>
IRRIGATION	02/15 to 11/30	0.20 CFS

Totals: 0.20 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

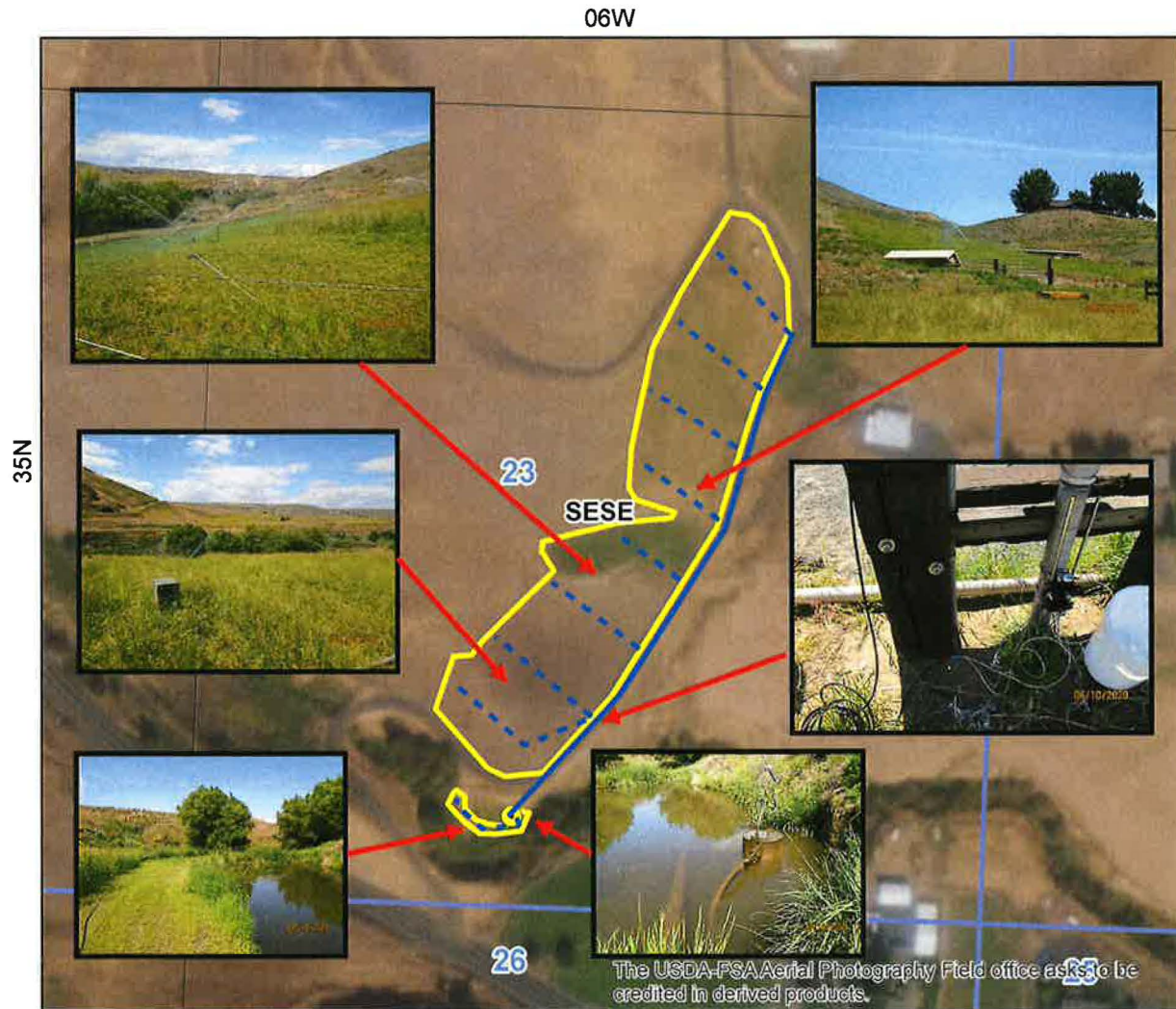
Luke Bates - Water Resource Agent

Field Examiner's Name *J. Q. Bates* Date 6/22/2020

Reviewer *Adam Fink* Date 6/30/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15792

IRRIGATION system diagram.



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

0 0.035 0.07 0.14 Miles



POD - PUMP IN 24HR IMPOUNDMENT POND



ed below. This form must be completed by a certified water right examiner. If the permit has changed, please contact any Department office for a new permit form. If you wish to relinquish your permit because of non-use, please notify the Department in writing.

208-553-8709
TOANIE (WITMAN)
City: LEWISTON
W5499@GMAIL.COM

well), Date Drilled: mo. ____ / yr. ____

Number: _____

0 cfs OR _____ acre-feet.

requirement, and/or other conditions of the permit. The Department will not issue

☐ Yes ☒ No
☐ Yes ☒ No

diversion?
Yes ☐ No ☒
Yes ☐ No ☐

require you to submit additional information in writing and attach documents with the required

completed? Yes ☐ No ☒

filing proof of beneficial use.

examination of the water system.

208-553-8709
City: LEWISTON
W5499@GMAIL.COM

ch the above numbered permit has been issued, understand that the undeveloped portion of

1/3/20
06/10/2020

size, ID 83720-0098

85-15792



IRRIGATION WATER CONVEYANCE SYSTEM



FLOW THROUGH PIPE FROM 24HR IMPOUNDMENT BACK TO CREEK



OUTFLOW FROM 24HR IMPOUNDMENT TO CREEK



IRRIGATION POU



SPRINKLERS



FLOW MEASUREMENTS FROM MAIN BEAM IRRIGATION PIPE FROM PUMP



IRRIGATION POU





LOWER FIELD IRRIGATION POU





UPPER FIELD IRRIGATION POU

