

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONExam Date: 4/10/2025

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. X Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >
2. Current Owner:
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
3. Beneficial Use Fees have been paid: X Y N Receipt No: C119807
4. Source: Middle Fork Weiser River Tributary: Weiser River

Method of Determination: GIS, Idaho Tax Parcel Data, and the Permit Holders Statement of Completion for Proof of Beneficial Use.

Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: No Overlap

Water Right No.	Source	Purpose of Use	Basis
67-14378	Spring	Stockwater	Decree

Comments: Water Right 67-14378 overlaps the proposed place of use (POU). However, since it diverts from a different source and is for a different use there are no overlap concerns and no reason to limit these rights when combined.

2. Other water rights with the same point of diversion: X No Overlap

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

Comments: No water rights overlapping the permitted point of diversion (POD).

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Middle Fork Weiser River			NE	NE	18	15N	01E	B.M.	Adams

Method of Determination: GIS and Idaho Tax Parcel Data.

Change in POD? Y X N Amendment Required? Y X N

2. Place of Use: Irrigation, Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15N	01E	18	0.4, D																0.4
		Lot #																	
Total Acres =																			0.4

Method of Determination: GIS, Idaho Tax Parcel Data, 2023 NAIP Aerial Imagery, September 2023 Google Aerial Imagery, and a phone conversation with the permit holder on April 9th, 2025.

Change in POU? Y X N Amendment Required? Y X N

3. Diversion System Information:

- ☐ Delivery System Diagram Attached. (mark all major components and distances between components)
- ☒ Aerial Photo indicating the location of the recommended POD and POU.
- ☒ Aerial Photo Attached (required)
- ☐ Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*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
N/A						

2. Measurement Comments: The permit holder provided a pump horsepower of ¾ and a lift of 14 ft was estimated using Google Earth. Therefore, a theoretical calculation was possible.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Since the permit holder provided a pump horsepower of ¾ and a lift of 14 ft was estimated using Google Earth a theoretical calculation was possible. According to the calculation the system can handle 0.04 cfs on average over 30-50 psi discharge pressures against the pump. According to Administrative Application Processing Memo #17 standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. According to Administrative Application Processing Memo #22 the standard diversion rate for a single home is 0.04 cfs. The permit authorized 0.04 cfs for domestic use and 0.04 cfs for irrigation or 0.08 cfs total. I am recommending a 0.04 cfs diversion rate for domestic use and 0.01 cfs for irrigation or 0.05 cfs total.

(0.4 acres of irrigation confirmed * 0.03 cfs/acre = 0.012 or 0.01 cfs rounded)

Theoretical Calculation = 0.04 cfs

Administrative Application Processing Memo #17 Calculation = 0.01 cfs

Administrative Application Processing Memo #22 Standard = 0.04 cfs

Permit allowed = 0.08 cfs

Total Recommendation: 0.05 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{See \#2}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{See \#2}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{See \#2}$

2. Volume Calculations for Other Uses: The permit authorized irrigation diverting from a natural flowing stream/river. According to the IDAPA Beneficial Use Examination Rules 37.03.02.030.01; viii if a permit authorizes irrigation diverting from a natural flowing stream/river or spring a diversion volume is not required for irrigation use at licensing. According to Administrative Application Processing Memo #22 the standard diversion volume for in-house domestic use is 0.6 af for one home. I am recommending a 0.6 af diversion volume for domestic use.

G. PURPOSE OF USEIrrigation X Y N # Stock N/A Domestic # of Homes 1Change in Purpose of Use? Y X NMethod of Determination: GIS, Idaho Tax Parcel Data, 2023 NAIP Aerial Imagery, September 2023 Google Earth Aerial Imagery, and the permit holders Proof Statement.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. According to Google Earth Aerial Imagery and a phone conversation with the permit holder on April 9th, 2025, the property was developed in 2021. The permit holder also confirmed where irrigation was occurring. Unfortunately, they were unable to irrigate any grass but have been watering trees in a meadow area. With the permit holders description 2023 NAIP Aerial Imagery and September 2023 Google Earth Aerial Imagery 0.4 acres of irrigation and domestic use for one home was confirmed within the permitted POU. A condition on the permit required the permit holder to install a lockable device allowing the Watermaster suitable control of diversion and a measuring device. The permit holder confirmed on their proof statement that a lockable and measuring devices were installed on the diversion system.

Since the permit holder provided a pump horsepower of ¾ and a lift of 14 ft was estimated using Google Earth a theoretical calculation was possible. According to the calculation the system capacity would be around 0.04 cfs on average over 30-50 psi discharge pressures against the pump. However, since a theoretical calculation is based on a lot of assumptions its likely the system can accommodate the total recommended diversion rate. The standards set in Administrative Application Processing Memo's #17 and #22 were utilized to make a diversion rate and volume recommendation. Since the permit authorized irrigation diverting from natural flowing stream/river a diversion volume is not required for irrigation use on the license according to the IDAPA Beneficial Use Examination Rules 37.03.02.030.01j.viii. All of the conditions on the permit have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending 0.04 cfs for domestic use, 0.01 cfs for irrigation or 0.05 cfs total. I am also recommending a 0.6 af diversion volume for domestic use.

Conditions R05, 086, and 087 should remain on the license. Condition X01 should be changed to 132 because the irrigation component is separated from domestic use. Condition R64 should be changed to X31 because irrigation is less than 1 acre. Condition 01J should be changed to R43 as is the standard with licensing. Finally, condition 121 should be changed to 103 as is the standard with licensing.

Have conditions of permit approval been met? X Yes No**I. RECOMMENDATIONS**

1. Recommended Amounts:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 – 10/31	0.01 CFS	N/A
Domestic	01/01 – 12/31	0.04 CFS	0.6 AF
	<u>Totals:</u>	0.05 CFS	N/A

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**J. AUTHENTICATION**Field Examiner: **Skyler Cheever – Water Resource Agent, Sr – State Office**Field Examiner's  Date 6/15/2025Reviewer  Date 8/20/25

Field Exam Map

Map showing the authorized point of diversion (yellow point), irrigation place of use (orange outline), and domestic place of use (green outline).



September 2023 Google Earth Aerial Imagery



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-15331
 Examiner: Skyler C
 Date of Field Exam: 4/10/2025

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	0.75	0.75	0.75	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	14	14	14	
DISCHARGE PRESSURE	30	40	50	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.06	0.04	0.04	AVE
(gpm)	24.9	19.5	16.0	0.04

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was determined from Google Earth. Pump horsepower was provided by the permit holder with their Statement of Completion for Proof of Beneficial Use. A standard psi for small pumps of 30 to 50 psi was used to