

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

A. GENERAL INFORMATIONExam Date: 4/8/2025

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: Robert Chesley
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: C119608
4. Source: Groundwater Tributary: N/A

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

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
72-28	Mill Creek	Irrigation	Decree

Comments: Water Right (WR) 72-28 overlaps the proposed place of use (POU) and authorizes the irrigation of the proposed acres. According to the application for permit the permit holder indicated irrigation use is being used to supplement the surface WR when it is out of priority. Therefore, I recommend a condition be added to the license limiting 74-16979 and 72-28 to the irrigation of 12.4 acres within a single irrigation season.

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

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

Comments: There are no other WR's overlapping the permitted POD according to Department Records.

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			NW	SE	14	14N	18E	B.M.	Custer

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

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14N	18E	14													1.0	0.6			1.6
		Lot #																	
Total Acres =																			1.6

Method of Determination: GIS, Idaho Tax Parcel Data, Comparing agricultural development and vegetative changes over time indicating irrigation occurred utilizing 2021 and 2023 NAIP Aerial Imagery and 2016, 2020, and 2024 Google Earth Aerial Imagery, and photographs provided by the permit holder on June 16th, 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)

 X 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 did provide some pump specifications including the wattage of 400. However, without the pump horsepower a theoretical calculation is not possible.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Since a pump horsepower was not provided by the permit holder, a theoretical calculation was not possible. According to Administrative Application Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre normally. However, 74-16979 will essentially supplement an existing surface WR Right, 72-28, which authorizes 0.02 cfs/acre. Therefore, the diversion rate recommendation should be based on the 0.02 cfs/acre to quell possible enlargement concerns. I am recommending a 0.03 cfs diversion rate.

(1.5 acres of confirmed irrigation) * (0.02 cfs/acre) = 0.032 or 0.03 cfs rounded.

Administrative Application Processing Memo Calculation = 0.03 cfs

Total Recommendation = 0.03 cfs

Permit authorized: 0.08 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

V = (Acres Irrigated) x (Irrigation Requirement) = (1.6 acres) * (3.5 af/acre) = 5.6 af
I.R.

V = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = (0.03 cfs)*(214 days)*(1.9835 af/day) = 12.7 af
D.R.

V = Smaller of V and V = 5.6 af
I.R. D.R.

G. PURPOSE OF USEIrrigation X Y N # Stock N/A Domestic # of Homes N/AChange in Purpose of Use? Y X NMethod of Determination: GIS, Idaho Tax Parcel Data, 2021 and 2023 NAIP Aerial Imagery, 2016, 2020, and 2024 Google Earth Aerial Imagery, and the permit holders Proof Statement.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. The permit authorized the irrigation of 4.0 acres diverting from groundwater. WR 72-28 overlaps the proposed POU and authorizes irrigation diverting from Mill Creek. According to the permit holders application for permit they wanted to supplement some of the irrigation authorized in 72-28 with groundwater when 72-28 was not in priority. Therefore, I recommend a condition be added to the license limiting this WR with 72-28 when combined to the irrigation of 12.4 acres within a single irrigation system to prevent an enlargement. To determine the extent of groundwater irrigation the permitted POU and existing WR 72-28 POU were compared providing a general location of groundwater irrigation. Then changes in vegetation, agricultural development (including the harvesting of crops, and color of vegetation (an indication of irrigation) was observed using 2021 and 2023 NAIP Aerial Imagery and 2016, 2020, and 2024 Google Earth Aerial Imagery. Through this analysis I confirmed that 1.6 acres of groundwater irrigation occurred within the development period.

A condition on the permit requires the permit holder to make use of available surface water, authorized under WR 72-28, before diversion under this permit. I contacted the permit holder on June 13, 2025, requesting photographic evidence of an active surface water diversion system and irrigation. On June 16, 2025, the permit holder provided multiple photographs, via email, confirming their surface water diversion system was operational and irrigation was occurring. Another condition on the permit requires the permit holder to install a lockable device prior to the diversion of water. According to the permit holders Proof Statement a lockable device was installed on the diversion system.

Since a pump horsepower was not provided by the permit holder a theoretical calculation was not possible. The standards set in Administrative Application Processing Memo #17 were initially used to make a diversion rate and volume recommendation. However, 72-16979 will essentially supplement existing surface WR 72-28 which authorizes 0.02 cfs/acre. Therefore, the diversion rate recommendation should be based on the 0.02 cfs/acre to quell possible enlargement concerns. All of the conditions have been met, and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.03 cfs diversion rate and 5.6 af diversion volume.

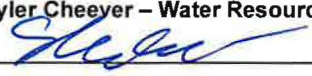
Conditions R05, 196, 197, 198, R63, and 943 should remain on the license. Condition X35 should be added limiting this WR with 72-28 when combined to the irrigation of 12.4 acres. Condition WB7 should be added because it is typically paired with condition 943 on permits and licenses. Condition 01H should be changed to R02 as is the standard with licensing.

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

1. Recommended Amounts:

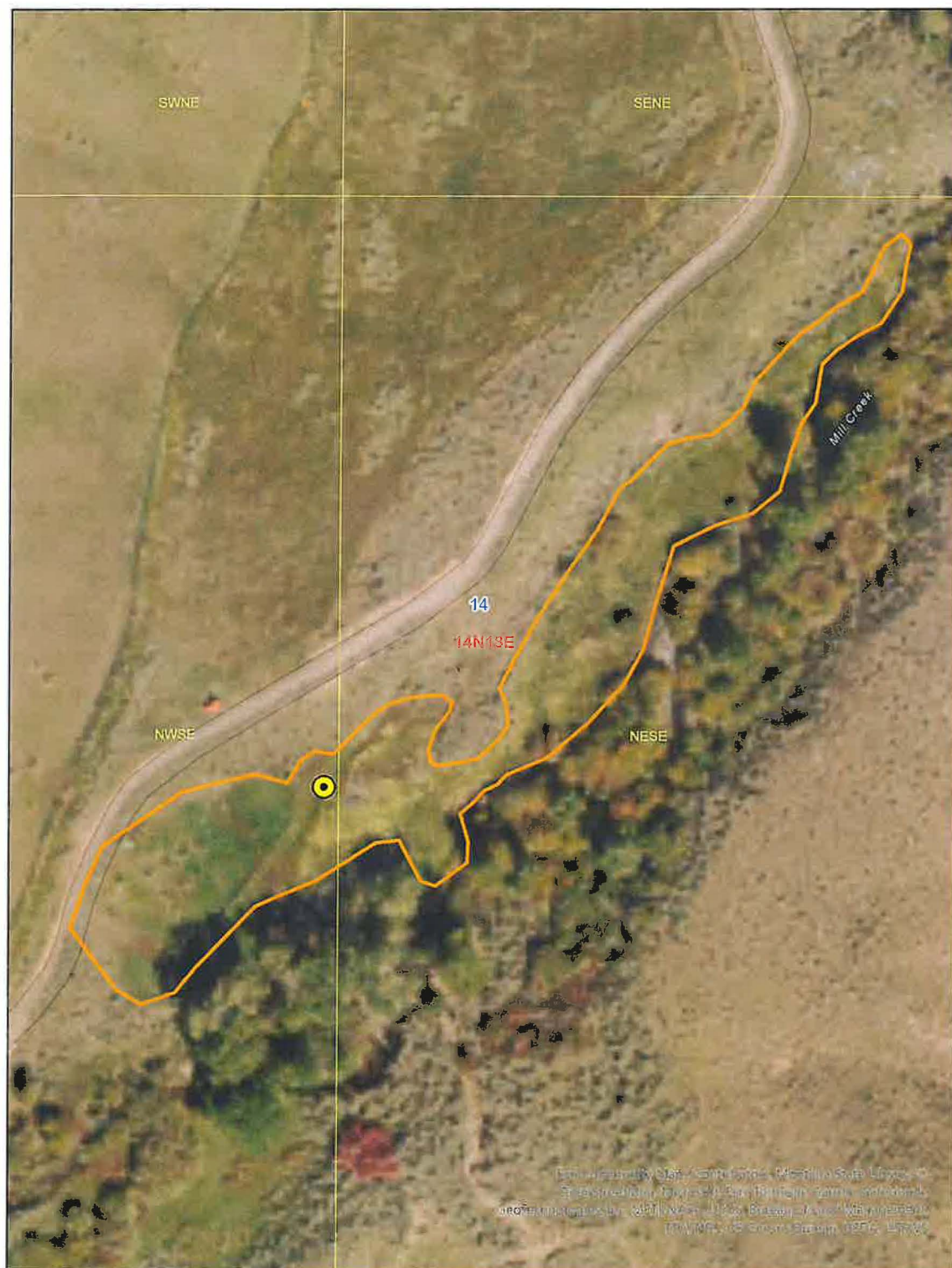
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 – 10/31	0.03 CFS	5.6 AF
	<u>Totals:</u>	0.03 CFS	5.6 AF

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 7/19/2025Reviewer  Date 7/22/25

Field Exam Map

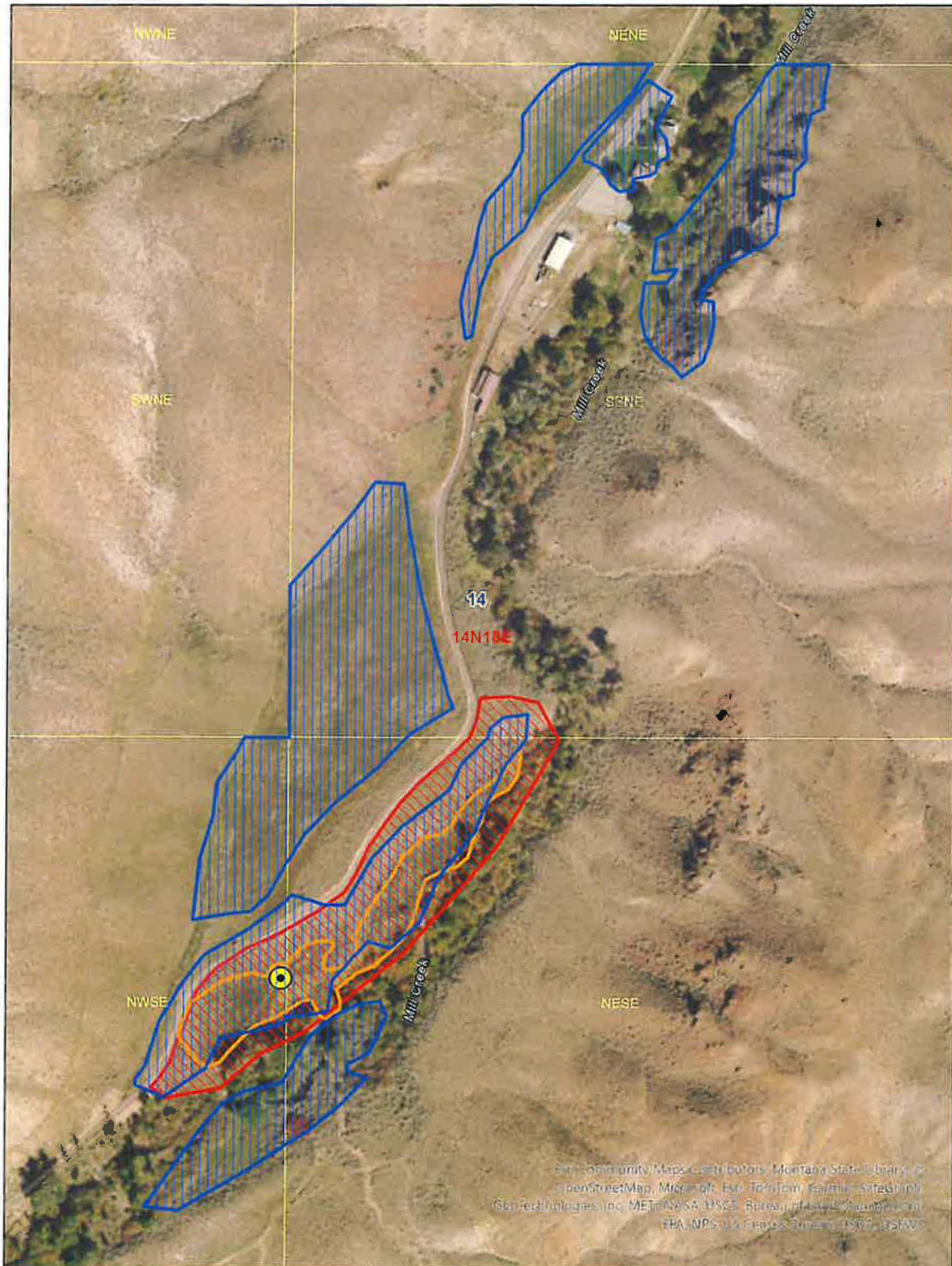
Map showing the authorized point of diversion (yellow point) and irrigated place of use (orange outline).



NAIP 2021 Aerial Imagery



Map comparing the recommended place of use (POU) (orange outline), the permit POU (red outline and fill) and the POU of surface water right 72-28 (blue outline and fill).



July 2016 Google Earth Aerial Imagery.



August 2020 Google Earth Imagery



July 2024 Google Earth Imagery



Photographs provided by the permit holder via email on June 16, 2025, confirming an active surface water diversion system, constructed and authorized under WR 72-28, and irrigation using surface water.





