

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

A. GENERAL INFORMATIONExam Date: 8/7/2026

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.q)? X Y N
- Irrigation of 5 acres or less
 - X Storage of up to 14.6 AF for stockwater, recreation, aesthetic, and wildlife purposes.
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

Comment: N/A

2. Current Owner: Eckhardt Family LLLP

Owner of Record Correct? X Y NAddress of Record Correct? X Y NIf No Explain: N/A3. Beneficial Use Fees have been paid: X Y N Receipt No: C127571

4. Source: Unnamed Creek Tributary: Jenkins Creek

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: Overlap ? X Yes No

Water Right No.	Source	Purpose of Use	Basis
67-15309	Unnamed Stream	Stockwater	Decree

Comments: Water Right (WR) 67-15309 overlaps the permitted place of use (POU), authorizes diversion from the same source, and is owned by the permit holder according to Department records. However, since the existing WR does not authorize storage there is no reason to limit use when combined with the existing WR.

2. Other water rights with the same point of diversion: Overlap ? Yes X N

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

Comments: There are no other WR's overlapping the permitted point of diversion (POD).

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	Sec.	Twp.	Rge.		County
Unnamed Stream		NE	SW	7	12N	05W	B.M.	Washington

Method of Determination: GIS and Idaho Tax Parcel Data.Change in POD? Y X N Amendment Required? Y X N

2. Place of Use: Stockwater Storage

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	05W	7									S								
		Lot #																	

Method of Determination: GIS, Idaho Tax Parcel Data, a phone conversation with the permit holder on August 6th, 2026, and 2025 NAIP Aerial Imagery.

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

3. Diversion System Information

Description: N/A☐ Delivery System Diagram Attached. (mark all major components and distances between components)☒ Aerial Photo indicating the location of the recommended POD and POU (required).☐ Additional Aerial Photography.☐ 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: No measurement is required for permits qualifying for an in-office examination according to the IDAPA Beneficial Use Examination Rules.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets AttachedMeasured Method: See Comment

Measurement = See comment

Permit allowed = See Comment

Total Recommendation = See commentComments: The existing pond is instream and flow through. Therefore, I am not recommending a diversion rate because no actual diversion is occurring.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{N/A}$$

2. Volume Calculations for Other Uses: 2025 NAIP Aerial Imagery and Google Earth Historic Imagery indicate that the pond was existing prior to when the application for permit was filed and has not changed dimensions since. However, after historic imagery indicates the pond capacity is slightly smaller than is designated in the GIS shapefile. Since the pond was existing prior to when the permit was approved in 2021 it seems reasonable to determine the greatest extent of filling from any aerial imagery available, even before the development period. 2017 NAIP Aerial Imagery indicated the greatest extent of filling with a surface area of 0.3 acres. A new pond analysis was conducted and determined the maximum storage volume, including the accounting of losses from seepage and evaporation, using the greatest fill extent is 1.5 af. I am recommending a 1.5 af storage volume.

Pond Analysis Calculation = 1.5 AF

Total Recommendation = 1.5 AFComments: N/A

G. PURPOSE OF USEIrrigation Y X N # Stock N/A Domestic # of Homes N/A

Other: Stockwater Storage (200 cow-calf pairs)

Change in Purpose of Use? Y X N

Method of Determination: GIS, Idaho Tax Parcel Data, 2025 NAIP Aerial Imagery, a phone conversation with the permit holder on August 6th, 2026, and the permit holders Proof Statement.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies of an in-office licensing examination. The permit authorized stockwater storage and stockwater from storage for an existing in-stream pond diverting from an unnamed stream tributary to Jenkins Creek. 2025 NAIP Aerial Imagery did not indicate water was diverted from the pond. After a phone conversation with the permit holder on August 8th, 2026, they confirmed no water is diverted from the pond and livestock drink directly from the pond. Therefore, I recommend stockwater from storage be removed from the license. 2025 NAIP Aerial Imagery nor Google Earth Historic Imagery indicated livestock drinking from the pond. However, the property containing the pond and several others spans a vast area. Evidence of livestock including trails and grazing is evident. Therefore, it seems likely livestock have utilized the pond within the development period.

Water Right (WR) 67-15309 overlaps the permitted POU, authorizes diversion from the same source, and is owned by the permit holder according to Department records. However, since the existing WR does not authorize storage there is no reason to limit use when combined with the existing WR. There are no other WR's overlapping the POD. The pond was existing prior to the application for permit. However, after historic imagery indicates the pond capacity is slightly smaller than is designated in the GIS shapefile. Since the pond was existing prior to when the permit was approved in 2021 it seems reasonable to determine the greatest extent of filling from any aerial imagery year available, even before the development period. 2017 NAIP Aerial Imagery indicated the greatest extent of filling with a surface area of 0.3 acres. A new pond analysis was conducted and determined the maximum storage volume, including the accounting of losses from seepage and evaporation, using the greatest fill extent is 1.5 af. All conditions of permit approval have been met, and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 1.5 af storage volume.

Conditions 020 should remain on the license. Conditions 219 and 220 should remain on the license but should be updated to match the licensing recommendation. Condition 121 should be changed to 103 as is standard with licensing. Condition X02 should be removed as is 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>ANNUAL VOLUME</u>
Stockwater Storage	01/01 – 12/31	1.5 AF
	<u>Totals:</u>	1.5 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

8/7/2024

Reviewer



Date

8/31/2026

Field Exam Map

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



2017 NAIP Aerial Imagery indicating the maximum fill extent.



Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	67-15390
REVIEWER	Skyler C.
DATE	8/7/2026

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	0.3	AC.
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Pond Surface Area (SQ. FT.)	13068	SQ. FT.
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I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	CL	
Suggested Seepage Rate (FT./DAY)	0.0030	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss
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Convert to GPD	293	GPD
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Total Seepage Loss (AFA)	0.3	AFA
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Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = 0.2 ft per day
OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day
SC (clayey sands, sand clay mixtures) = 0.007 ft per day
CL (Low to medium plasticity clays) = 0.003 ft per day
MH, OH, PT and CH (high plasticity clays) = 0.0003 ft per day
LINED PONDS (liners can be chemical, fabric, or bentonite) = 0 ft per day
Ponds Intercepting Groundwater (excavated ponds filled by ground water) = 0 ft per day

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1), an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2). Use "0" if the pond fill relies on the water table.

Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	67-15390
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DATE	8/7/2026

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:

P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at <X:/Spatial/Climate/ETIdahostations.shp>.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

Precipitation Deficit

Station: Twin Falls 2 NNE (NWS -- 109294)

Month	mm/day ¹	Days per month	mm/Month
Jan	-0.80	31	0.00
Feb	-0.08	28	0.00
March	1.21	31	37.51
April	2.68	30	80.40
May	3.38	31	104.78
June	4.12	30	123.60
July	4.86	31	150.66
August	4.16	31	128.96
September	2.96	30	88.80
October	1.49	31	46.19
November	-0.54	30	0.00
December	-1.24	31	0.00

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = 760.90

$$[(760.90) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$$

$$(760.90 \div 304.8) \times 0.30 = 0.7 \text{ AFA}$$

Total Storage Calculations

FILE NUMBER	67-15390
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This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.3	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	1.6	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	0.48	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.3	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.7	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.5	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.