

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-10939
Exam Date: 06/30/2021

1. Current Owner:
GOLDSTEIN TRUST 1010 RANCH RD MOSCOW ID 83843-7484
2. Accompanied by: Stuart & Annemarie Goldstein
Phone No: 208-310-2125
Address: Same as above
Relationship to permit Holder: Trustees (Permit Holder)

3. **SOURCE:**
UNNAMED STREAM

Tributary
SOUTH FORK PALOUSE 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
87-11215	UNNAMED STREAM	STOCKWATER	B.U. Claim – Recommended in PRBA; active status

Comments: 87-11215 is a Beneficial Use claim filed by the applicant in the Palouse River Basin Adjudication pending court decision to become a decreed right. 87-11215 uses the same unnamed stream as this permit for stockwater purposes that overlap this right's storage POU. Condition 928 was added to the permit during licensing review to mitigate potential overlap concerns regarding the stockwater use between rights for the same stock animals on the property.

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

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

UNNAMED STREAM NE¼ NE¼, Sec. 27, Twp 39N, Rge 05W, B.M. LATAH County

Method of Determination: GPS; POD is an earthen dam located at -116°56.559, 46°41.886.

PLACE OF USE: STOCKWATER STORAGE and RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
39N	05W	27	X																

Method of Determination: Arcmap and field exam.

3.
 - X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 - X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 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
NONE						

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: See attached pond analysis worksheet

- Stockwater storage = 2 horses x 12 gpd x 365 days = 8,760 gallons per year

10 goats x 2 gpd x 355 days = 7,300 gallons per year

Total = 8,760 gal + 7,300 gal = 16,060 gal / 325,850 gal per af = 0.1 af considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/30/2021 with the applicants, Stuart and Annemarie Goldstein, showed a small pond that impounds unnamed stream water for recreation and stockwater storage uses. The POD is an excavated earthen dam, with PVC overflow pipe installed to allow overflow to discharge downstream from the pond. There is no diversion rate associated with this permit.

Photographs were taken during the field exam to illustrate the storage pond that serves as the POU for recreation and stockwater storage use(s). Following the exam, Arcmap aerial imagery was used to trace out the surface area of the pond equaling 0.1 acres. The pond has a maximum depth of 10 feet, an average depth of 4 feet, pond capacity of 0.4 af, and a seepage & evaporation loss of 0.4 af annually. Stockwater storage volume in the amount of **0.1 af** annually is included in the total annual volume, which equals 0.9 af. Recreation storage is derived by adding the pond capacity and seepage/evaporation loss volume which equals **0.8 af** annually. The recommended maximum diversion volume for licensing purposes equals **0.9 af**.

It was a very hot summer day during the field exam, and the 10 goats owned by the applicants were located at a nearby barn for shade, but the applicants assert the stock drink directly from the pond. 2 horses in a neighboring pasture also access the pond for stockwater use. The actual stockwater volume associated with 10 goats and 2 horses equates to 0.05 af, but due to department rounding standards 0.1 af volume is recommended for licensing stockwater use.

Conditions 029 and X02 were removed from the permit during licensing review. Condition 259 was replaced with 219 describing pond storage volumes, and condition 220 was updated to reflect pond size and capacity data resulting from a current pond analysis sheet completed during licensing review. Condition 928 was added to the permit; all other conditions on the permit shall be carried forward to the license. Overlap concerns: 87-11215 is a Beneficial Use claim filed by the applicant in the Palouse River Basin Adjudication pending court decision to become a decreed right. 87-11215 uses the same unnamed stream as this permit for stockwater purposes that overlap this right's storage POU. Condition 928 was added to the permit during licensing review to mitigate potential overlap concerns regarding the stockwater use between rights for the same stock animals on the property. There are no additional overlap concerns for this water right.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Annual Volume</u>
STOCKWATER STORAGE	01/01 to 12/31	0.1 AF
RECREATION STORAGE	01/01 to 12/31	0.8 AF

Totals: 0.9 AF

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 Luke Bates Date 8/19/2021

Reviewer Adel Fink Date 10/29/2021

Total Storage Calculations

FILE NUMBER	87-10939
REVIEWER	LUKE BATES
DATE	8/19/2021

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.)	0.1	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4	"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)	0.4	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)	0.1	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 " <u>From Storage</u> " 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)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.9	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.

State of Idaho
Department of Water Resources
Attachment to Field Exam
87-10939

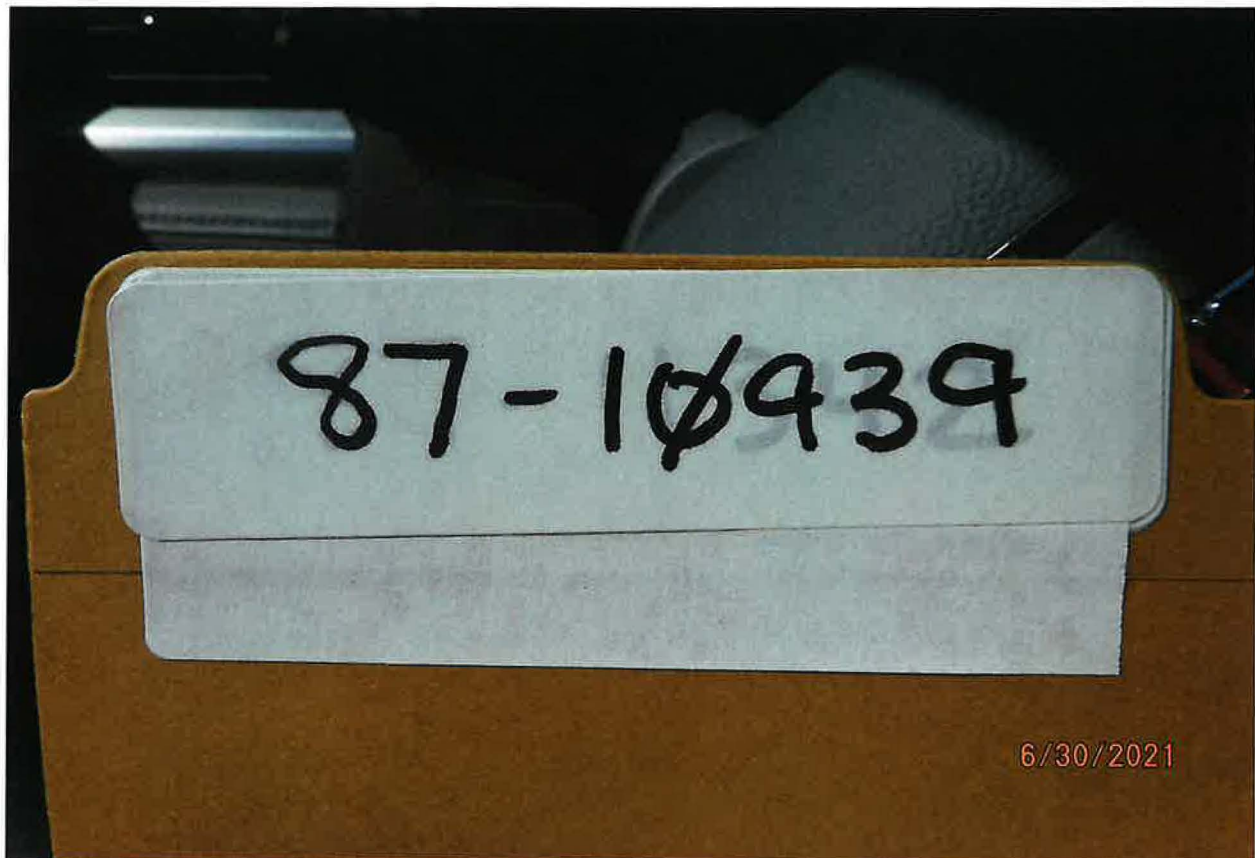
STOCKWATER STORAGE and RECREATION STORAGE system diagram.



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

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 6/30/2021



POD – POND EARTHEN DAM



INFLOW FROM SMALL INTERMITTENT STREAM (TOP OF PICTURE)



OVERFLOW DISCHARGE PIPE LOCTED IN POND



OVERFLOW DISCHARGE ROUTES DOWN SLOPE TO NATURAL STREAM CHANNEL



POU – STOCKWATER STORAGE AND RECREATION STORAGE