

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12123
Exam Date: 7/8/2021

1. Current Owner:
FRENCH CATTLE LLC 1311 BRUSH CREEK RD DEARY ID 83823-9761
2. Accompanied by: Unaccompanied – prior authorization given by permit holder – Edward French
Phone No: 208-877-1600
Address: Same as above
Relationship to permit Holder: Permit holder

3. **SOURCE:**
UNNAMED STREAM

Tributary
CORRAL CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap
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 SE¼ NW¼, Sec. 28, Twp 40N, Rge 01W, B.M. LATAH County

Method of Determination: GPS, POD is a pond earthen dam located at -116°28.276, 46°46.934

PLACE OF USE: STOCKWATER STORAGE, WILDLIFE STORAGE, and FIRE PROTECTION 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	
40N	01W	28								X									

PLACE OF USE: STOCKWATER FROM 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	
40N	01W	28							X	X									

Method of Determination: Field examination and Arcmap aerial imagery.

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 - ☒ 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 1:24,000 or greater.
 - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ 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 worksheets.
- Stockwater storage/from storage uses annual volume = 30 head x 12 gpd x 365 days = 131,400 gal per year / 325,805 gal per af = 0.4 af considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Right 86-12123 has been split from 86-12039 during licensing review due to the unnamed stream source and associated pond being a separate water source & system than the two runoff ponds that are in the northern extent of the property. This permit will account for a portion of the wildlife storage, fire protection storage, and stockwater storage & stockwater from storage use(s) as approved under permit 86-12039.

Field exam performed unaccompanied (prior permission granted) on 7/8/2021 showed an in-stream pond impounding unnamed stream water for multiple storage uses and stockwater from storage use. The pond has an earthen dam with an overflow device developed, and overflow continues down grade to the unnamed stream's confluence with Corral Creek. There is no diversion rate associated with licensing this permit.

During the field exam photographs were taken of the pond serving as the POU for stockwater, wildlife, & fire protection storage use(s). During licensing review Arcmap aerial imagery was used to accurately trace out the pond's surface area which equals 0.2 ac. The pond's maximum depth = 8 ft, average depth = 3.2 ft, pond volume capacity = 0.6 af, seepage and evaporation rate loss = 0.4 af, stockwater from storage multiple fill volume = 0.4 af, and total volume required annually = **1.4 af** which is recommended as the maximum diversion volume for licensing purposes.

The stockwater storage and stockwater from storage annual volume equals 30 head x 12 gpd x 365 days = 131,400 gal per year / 325,805 gal per af = **0.4 af** considering department rounding standards. The pond's annual volume for wildlife storage and fire protection storage consists of the pond(s) capacity & seepage/evaporation loss volumes which = 0.6 af (capacity) + 0.4 af (seepage/evaporation) = **1.0 af** respectively. A length of PVC pipe is routed from the pond downgrade to a shutoff valve and hose bib from which stockwater from storage use is accomplished by hose to portable stock tanks. Cattle were present on this portion of the applicant's property during the exam, and benefit from drinking directly from the pond as well as portable stock tanks.

Conditions X01, X02, 26A, and 082 were removed from the permit during licensing review. Condition 219 was replaced with 259 to better describe the pond's volume limitations with multiple fill volumes for stockwater use. Condition 220 was updated to reflect the pond's volume capacity and size limitations following the field exam. Condition X35 was added to describe the combined stockwater use volume limitations between Rights 86-12039 & 86-12123 due to the split of water rights. All other conditions on the permit shall be carried to licensing. Aside from the combined stockwater use mitigated by including condition X35, there are no 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	0.4 AF
STOCKWATER FROM STORAGE	01/01 to 12/31	0.4 AF
WILDLIFE STORAGE	01/01 to 12/31	1.0 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	1.0 AF

Totals: 1.4 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

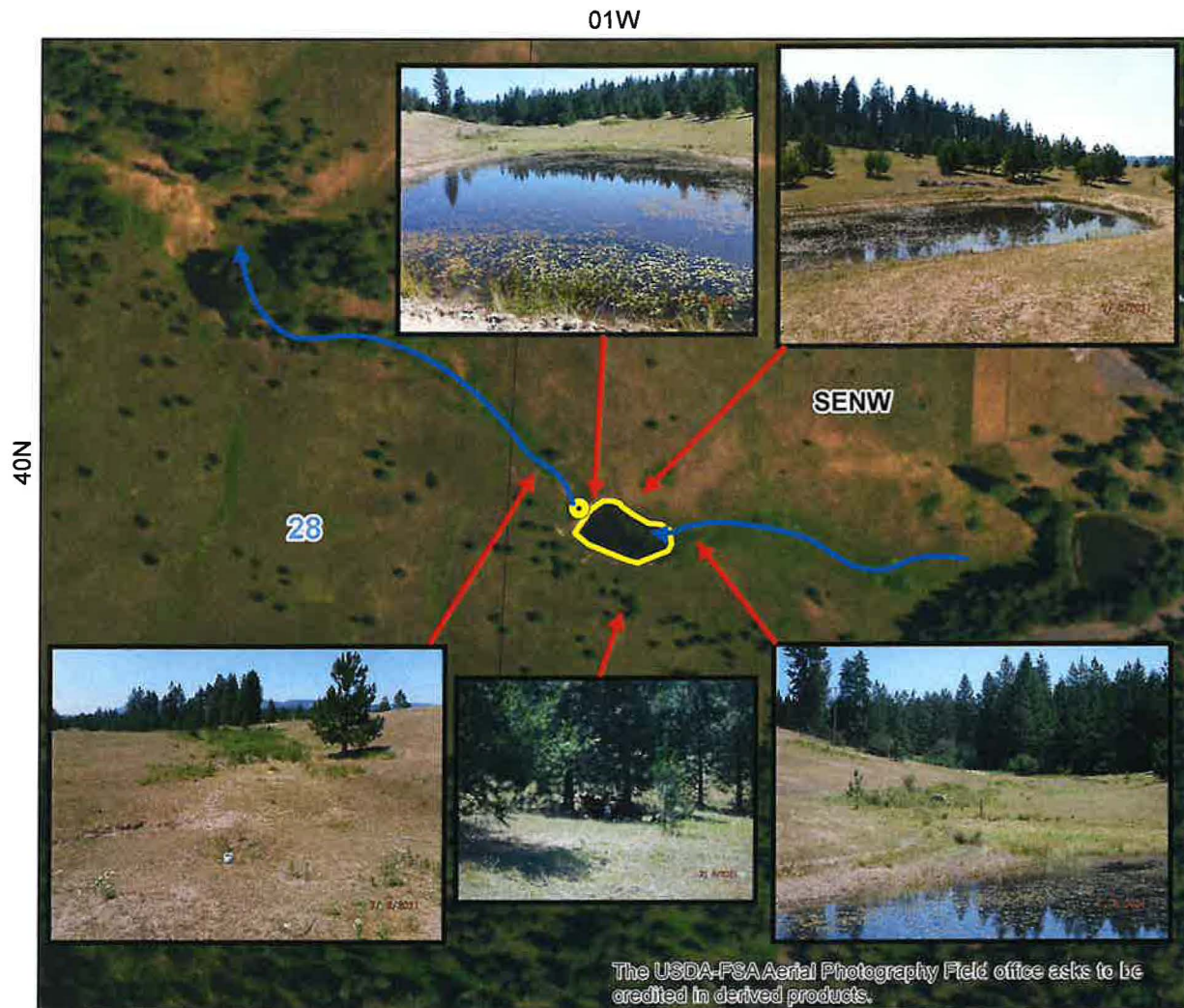
I. AUTHENTICATION

Luke Bates -

Field Examiner's Name S. D. B. Date 12/01/2021
Reviewer Adrian F. Smith Date 1/31/2022

State of Idaho
Department of Water Resources
Attachment to Field Exam
86-12123

STOCKWATER STORAGE, WILDLIFE STORAGE, and FIRE PROTECTION STORAGE system diagram.



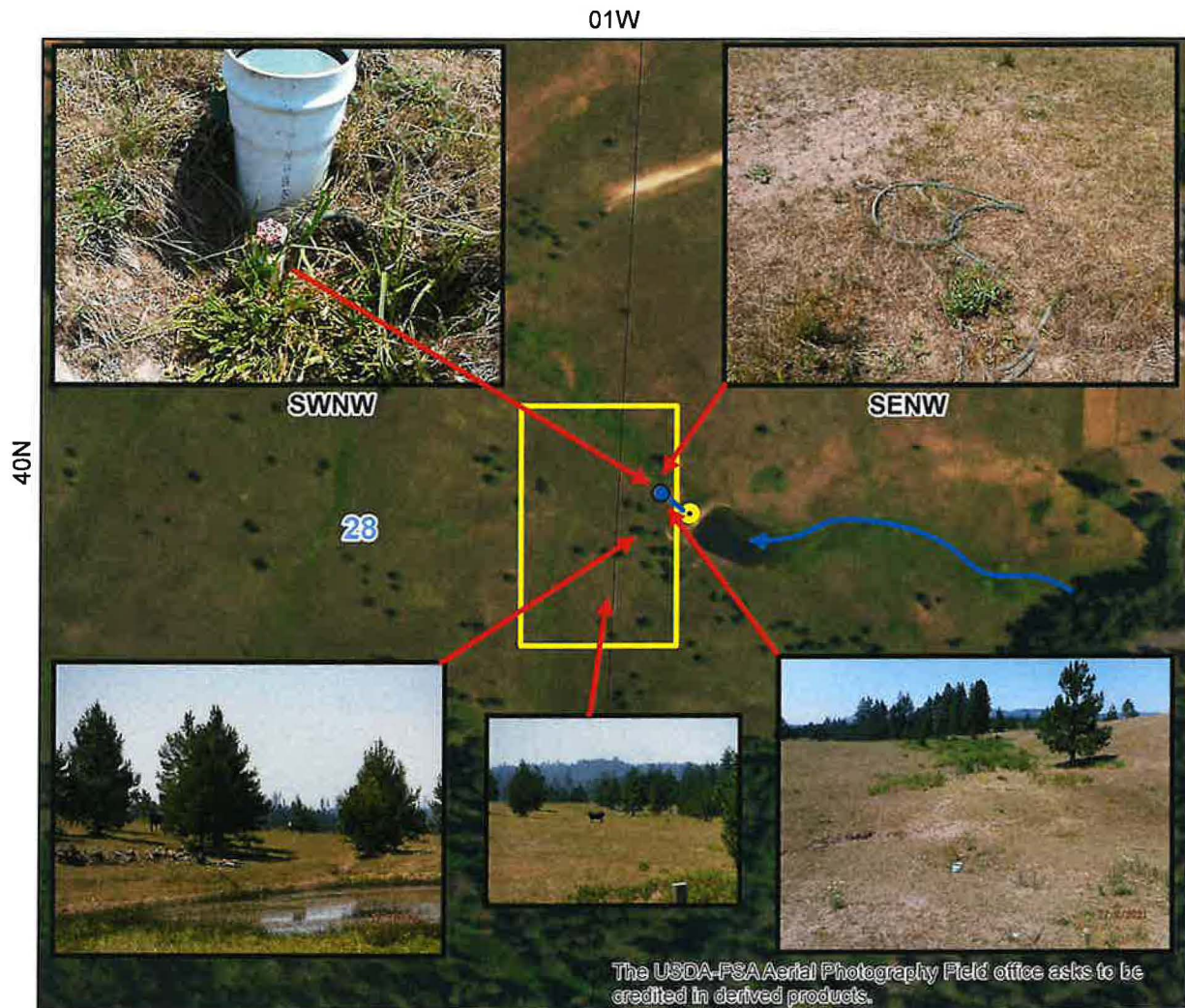
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



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STOCKWATER FROM STORAGE system diagram.



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

0 0.035 0.07 0.14 Miles



Total Storage Calculations

FILE NUMBER	86-12123
REVIEWER	LUKE BATES
DATE	11/24/2021

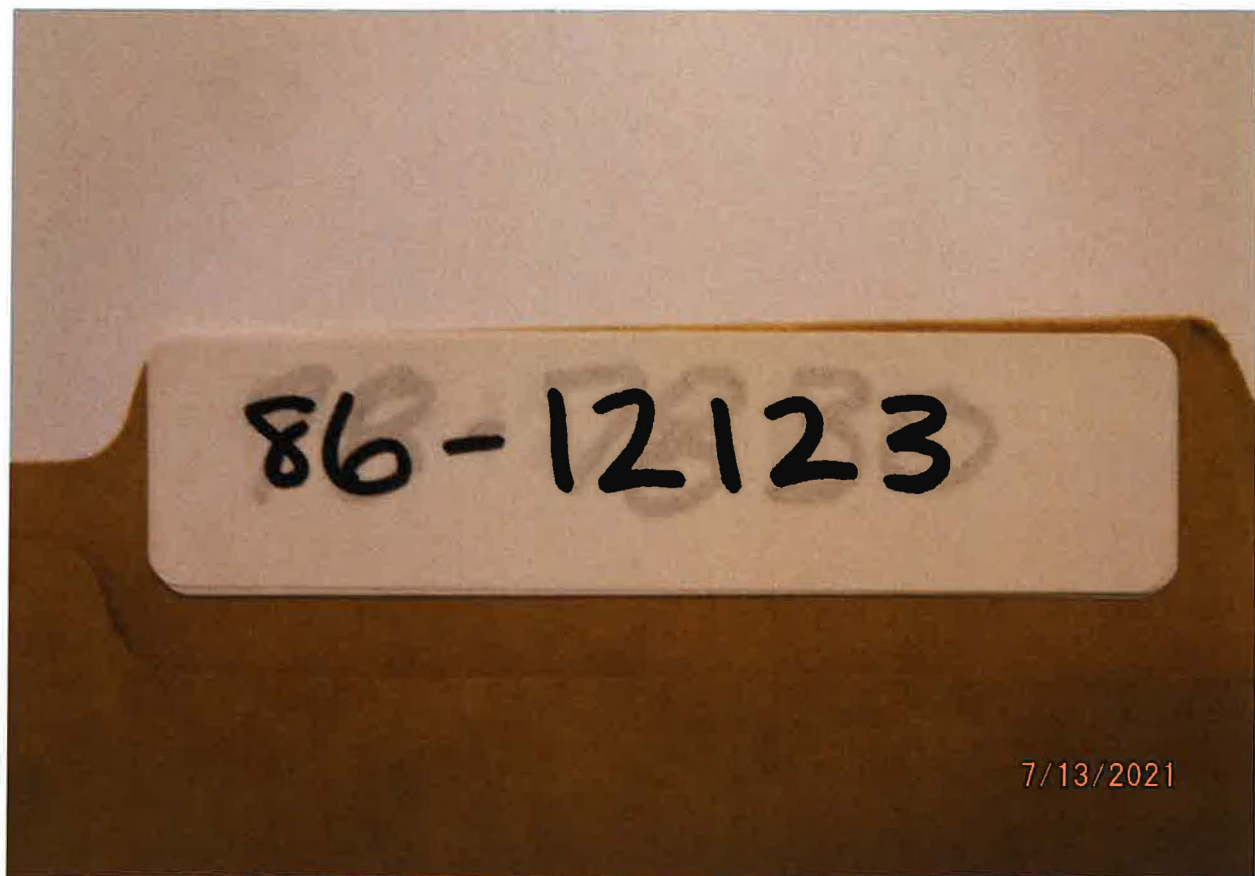
This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

POND 3

Surface Area (AC.)	0.2	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	3.2	"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)	0.6	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)	0.4	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)	0.2	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.4	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.



WR 86-12123 SPLIT FROM WR 86-12039 – FIELD EXAM DATE 7/13/2021



POD – POND EARTHEN DAM IMPOUNDS UNNAMED STREAM WATER



POU – STOCKWATER STORAGE, FIRE PROTECTION STORAGE, & WILDLIFE STORAGE POND





INFLOW TO POND FROM UNNAMED STREAM SOURCE



OVERFLOW DISCHARGE BACK TO STREAM CHANNEL



STOCKWATER FROM STORAGE POU – RISER PIPE TO HOSE ENABLES FILLING OF PORTABLE WATER TANKS FOR TROUGHS





STOCK ROTATED FROM PASTURE TO PASTURE THROUGHOUT THE YEAR

