

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10900

Exam Date: 08/30/2019

1. Current Owner:
IDAHO FISH & GAME COMMISSION PO BOX 25 BOISE ID 83707

2. Accompanied by: N/A, exam performed with nobody present

- ### 3. SOURCE: GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L1 (SW¼ NW¼), Sec. 25, Twp 46N, Rge 02W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD located at -116° 32.562, 47° 18.452

PLACE OF USE: WILDLIFE STORAGE

[illegible]

PLACE OF USE: RECREATION STORAGE

[illegible]

PLACE OF USE: 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	
46N	02W	25							X L1										

Method of Determination: Arcmap

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

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

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

G. NARRATIVE/REMARKS/COMMENTS

The contact person for this right was notified that an exam was going to take place and that someone could be present, but not necessary. The representative supplied some engineering documents about the construction of the pond and said to proceed with the exam with nobody present. The pond had a surface area of 0.9 acres. The average depth was equal to 6.8 feet with a total capacity of 6.1 acre-feet. The pond was fed by groundwater with no seepage and 1.3 acre-feet for evaporation losses. I was unable to verify if there was an overflow culvert into the river or not, but it didn't appear that there was overflow. The license will be issued for a storage volume of 7.4 acre-feet for wildlife storage, fire protection storage, and recreation storage.

Conditions 26A and 082 were removed at time of licensing. Conditions 219 and 220 were both modified to show current amounts that are being licensed. When the application was submitted, our way of determining evaporation was not as accurate as it is today. The reduction in volume from permit to license was just based upon a much lower and accurate ET rate. It also appears the original volume was much larger than was either built, or over applied for. The only overlapping water rights are municipal rights for the City of St. Maries. There are no overlap concerns.

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

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
WILDLIFE STORAGE	01/01 to 12/31		7.4 AF
RECREATION STORAGE	01/01 to 12/31		7.4 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		7.4 AF

Totals:

7.4 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

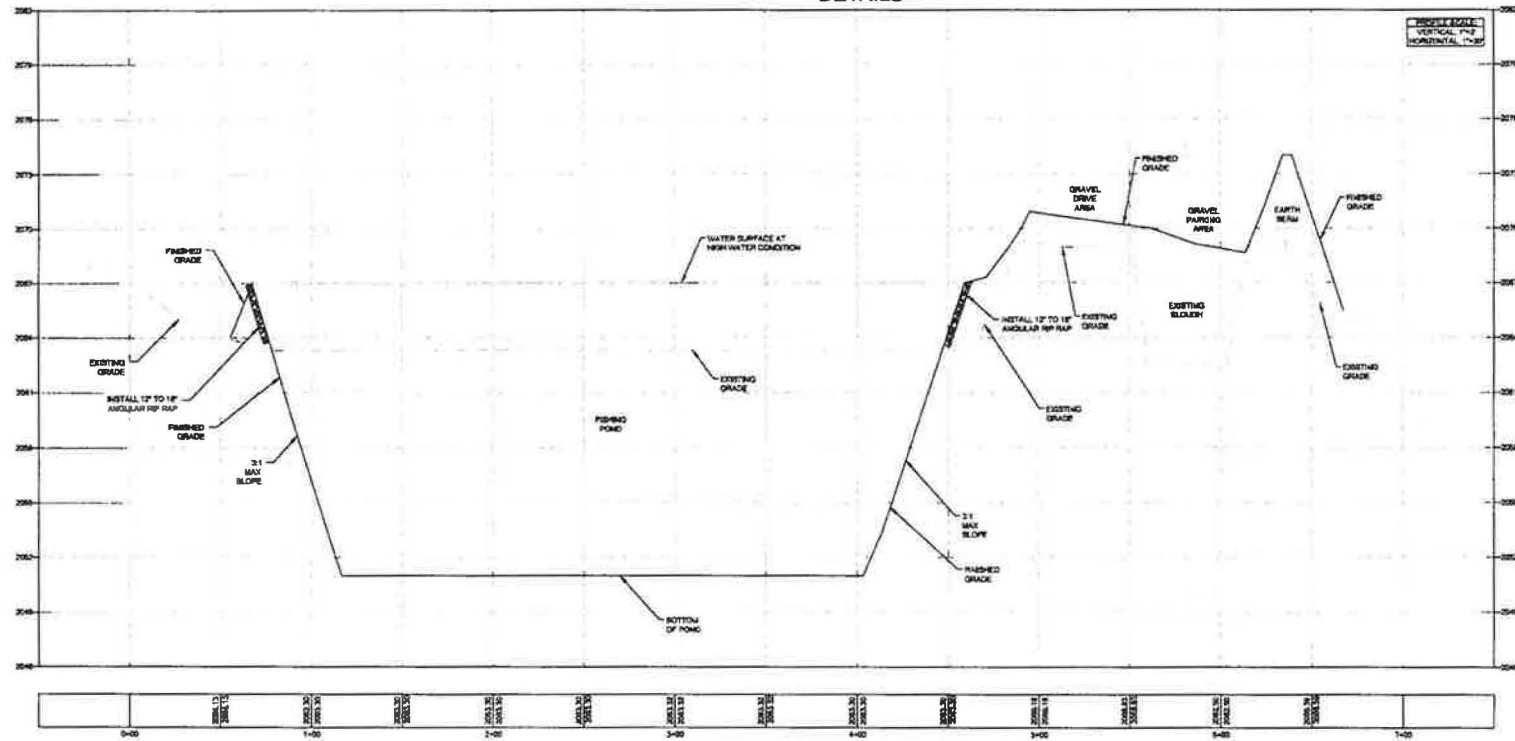
I. AUTHENTICATION

Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 10/4/2019

Reviewer Douglas Jones P.E. Date 11/7/2019

ST. MARIES FISHING POND
DFG 2013-122
BENEWAH COUNTY, IDAHO
DETAILS



1 POND SECTION

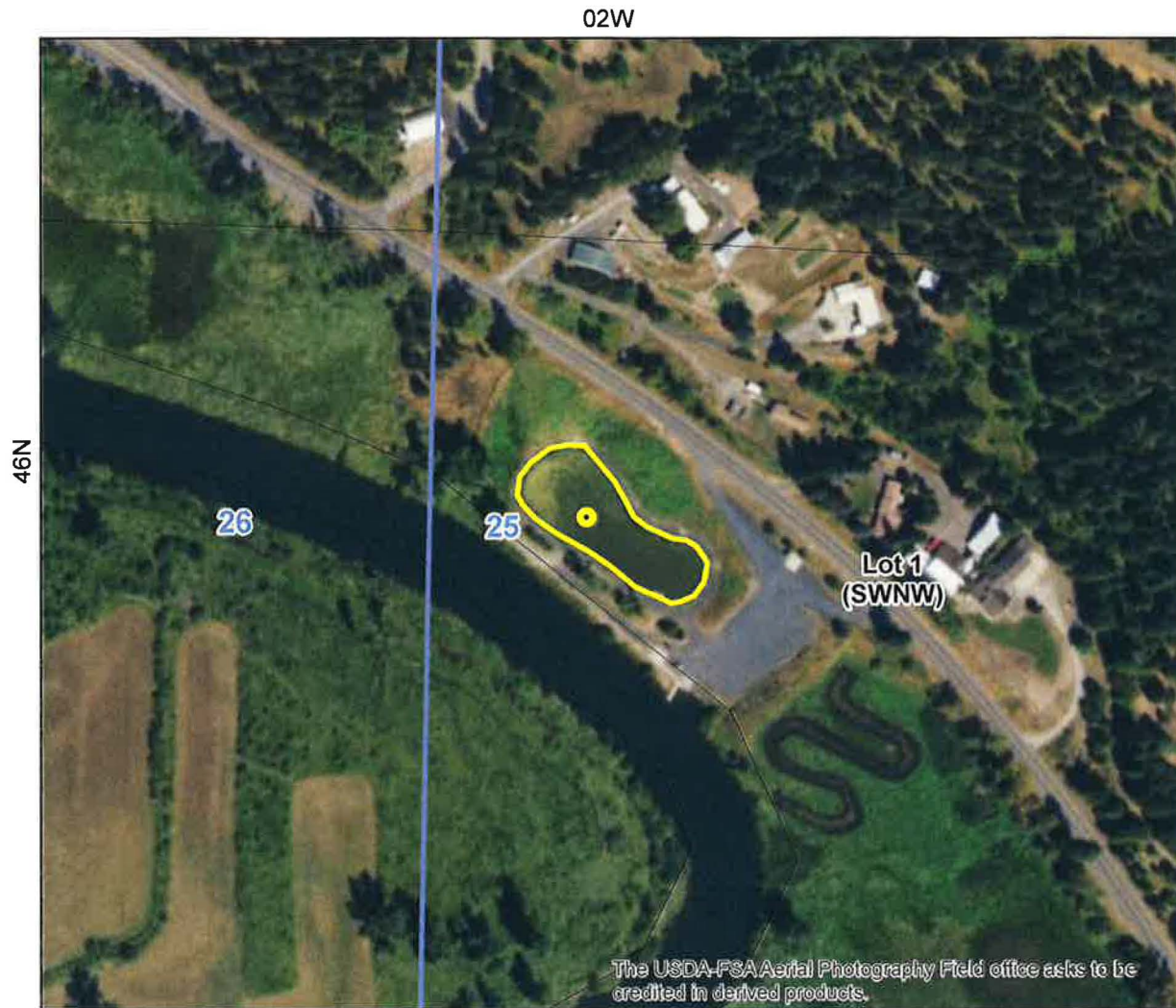


NO.	DATE	DESCRIPTION	BY
1	09/27/13	APPLICANT: Idaho Department of Fish and Game FILE NO.: IDFG-2012-542-479 WATERWAY: Watershed adjacent to St. Maries River PROPOSED ACTIVITY: St. Maries Family Fishing Pond Location: 25.7°40'N, 116°31'W Scale: 1"=40' (1:4000) Sheet 3 of 6 Date: September 27, 2013	
DATE: 09/27/13		SITE PLAN	
SCALE: SEE PLAN		APPROVED	
CHIEF, BUREAU OF ENGINEERING		DIRECTOR	
DATE: 09/27/13		SHEET 3 OF 4	

8:\PROJECTS\2013\2013-122 ST. MARIES POND\PROPOSED SITE PLAN 2013

State of Idaho
Department of Water Resources
Attachment to Field Exam
92-10900

WILDLIFE STORAGE, RECREATION STORAGE, and FIRE PROTECTION STORAGE



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

0 0.035 0.07 0.14 Miles



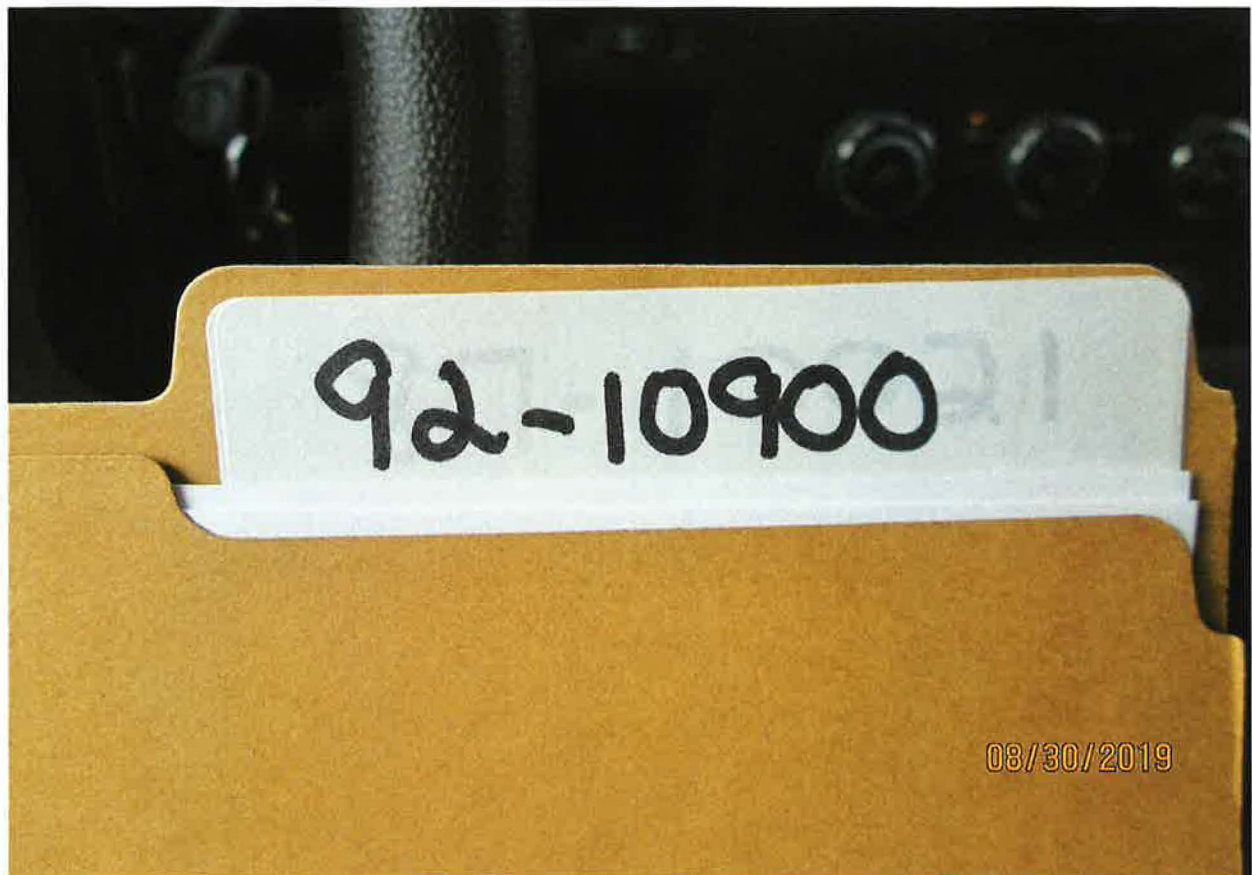
Total Storage Calculations

FILE NUMBER	92-10900
REVIEWER	Adam Frederick
DATE	10/4/2019

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.)	0.9	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	6.8	"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)	6.1	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. <i>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.</i>
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). <i>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</i>
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	1.3	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	7.4	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.



POU.



POU.





POU.

