

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10899
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° 32.467, 47° 18.412

PLACE OF USE: WILDLIFE 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. 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

2. Measurements: N/A

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: N/A

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 was snake shaped with a surface area of 0.6 acres. The average depth was equal to 3.8 feet with a total capacity of 2.3 acre-feet. The pond was fed by groundwater with no seepage and 0.7 acre-feet for evaporation losses. The grasses around the pond at time of exam were very tall and thick so it was challenging to make it around the pond to see much. I was unable to verify if there was an overflow culvert into the river or not. The license will be issued for a storage volume of 3.0 acre-feet for wildlife 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. 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? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
WILDLIFE STORAGE	01/01 to 12/31		3.0 AF

Totals:

3.0 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

Adam Frederick - Water Resource Agent, Senior

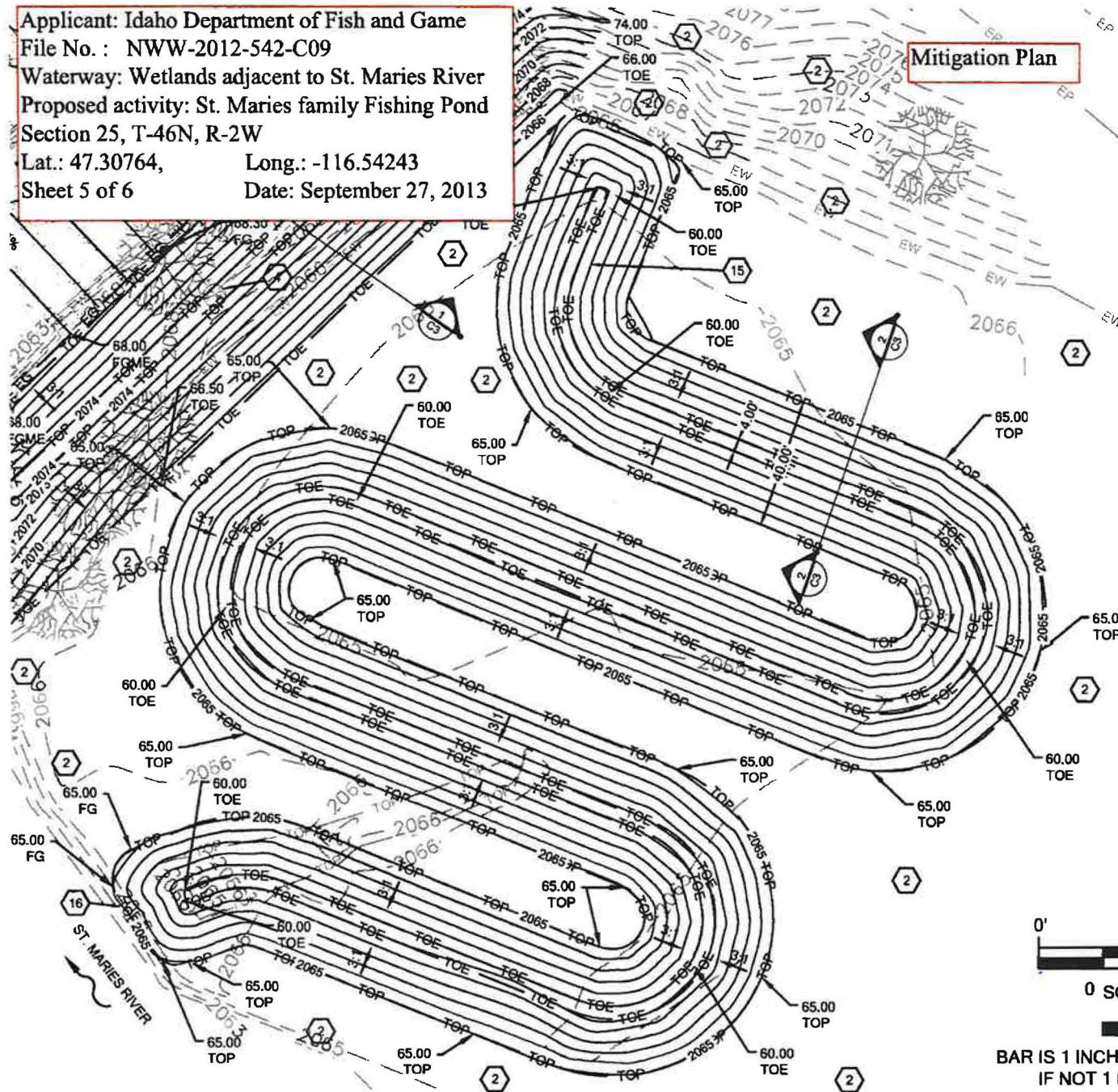
Field Examiner's Name Adam Frederick Date 10/3/2019

Reviewer Theresa Jones P.E. Date 10/11/2019

Applicant: Idaho Department of Fish and Game
 File No.: NWW-2012-542-C09
 Waterway: Wetlands adjacent to St. Maries River
 Proposed activity: St. Maries family Fishing Pond
 Section 25, T-46N, R-2W
 Lat.: 47.30764, Long.: -116.54243
 Sheet 5 of 6 Date: September 27, 2013

Mitigation Plan

1. RETAIN AND PROTECT ALL EXISTING WETLANDS.
2. ALL CONTRACTOR ARE RESPONSIBLE FOR OBTAINING AND FOLLOWING ALL APPLICABLE LAWS OF ANY JURISDICTION RESPONSIBLE FOR CONTROL OF TRAFFIC IN THE AREA.
3. ALL WORK AND MATERIALS SHALL BE STORED OUTSIDE OF THE I.S.P.W.C. AREA.
4. THE LOCATION OF THE EXISTING WETLANDS SHALL BE MAINTAINED AND THE EXACT LOCATION OF THE EXISTING WETLANDS SHALL BE MAINTAINED.
5. ANY AND ALL UNDESIRABLE CHANGES FROM THE ORIGINAL DESIGN SHALL BE APPROVED BY THE ENGINEER OF RECORD.
6. THE CONTRACTOR SHALL PROTECT EXISTING WETLANDS AND EXISTING FACILITIES FROM DAMAGE BY CONTRACTORS OR OTHERS.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WETLANDS AND SHALL NOT EXCAVATE ANY EXCAVATION.
8. CONTRACTOR SHALL MAINTAIN ALL EXISTING WETLANDS AND SHALL NOT EXCAVATE ANY EXCAVATION.
9. ALL FINISHED GRADE SHALL BE MAINTAINED AND SHALL NOT BE CHANGED.
10. ALL SLOPES SHALL BE MAINTAINED AND SHALL NOT BE CHANGED.
11. CONSTRUCTION SHALL BE MAINTAINED AND SHALL NOT BE CHANGED.



BAR IS 1 INCH ON ORIGINAL DRAWING.
 IF NOT 1 INCH ON THIS SHEET,
 ADJUST SCALES ACCORDINGLY.

State of Idaho
Department of Water Resources
Attachment to Field Exam
92-10899

WILDLIFE STORAGE

02W



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

0 0.035 0.07 0.14 Miles



Total Storage Calculations

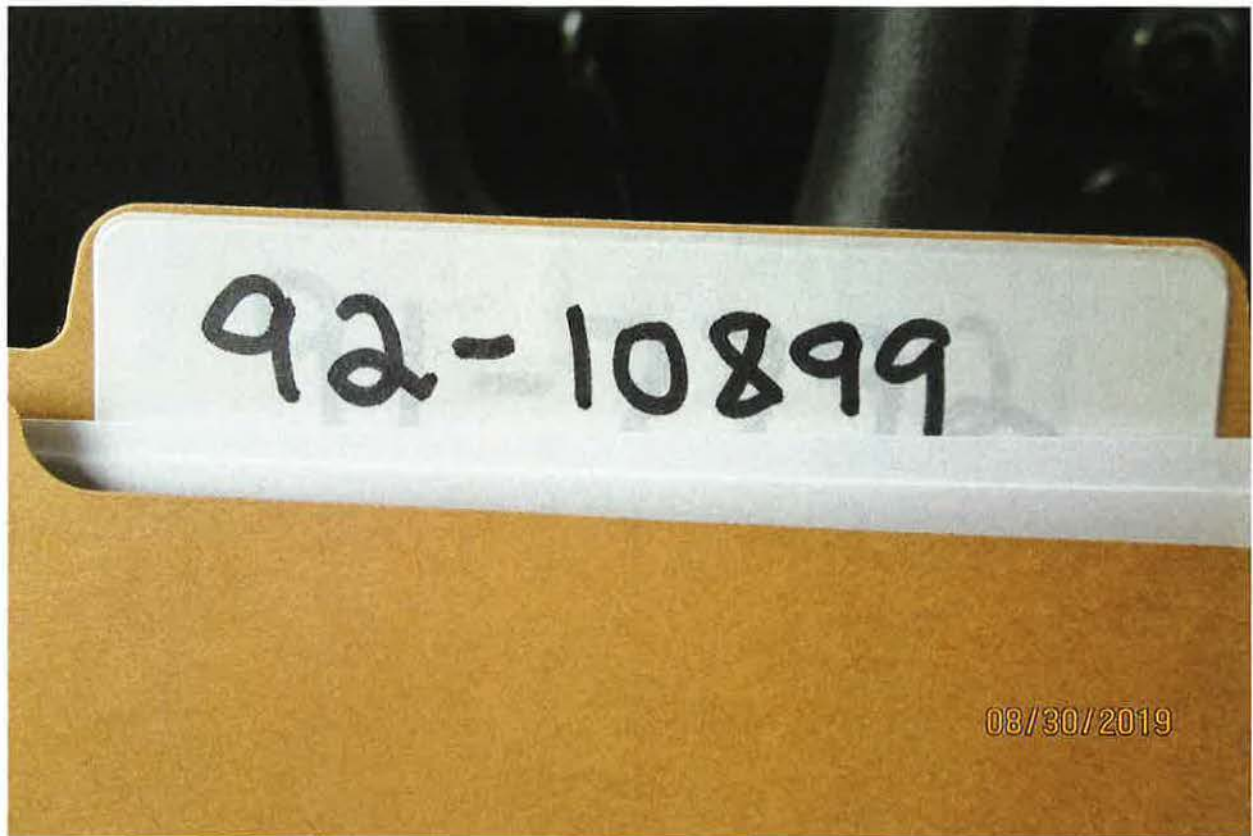
FILE NUMBER	92-10899
REVIEWER	Adam Frederick
DATE	10/3/2019

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.)	0.6	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	3.8	"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)	2.3	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)	0.7	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	3.0	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.



Wildlife POU.



Wildlife POU.

