

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-07714
Exam Date: 9/13/2001

1. Current Owner:
SCOTT A PETERSON HC 01 BOX 395 NAPLES ID 83847 (208) 267-9804
And/Or
MARY PETERSON HC 01 BOX 395 NAPLES ID 83847 (208) 267-9804
2. Accompanied by: Mary Peterson (Wayne Baldwin performed exam in 2001)

3. **SOURCE:**
UNNAMED STREAM

TRIBUTARY:
DODGE CREEK

B. OVERLAP REVIEW

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

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

UNNAMED STREAM SW¼SW¼ Sec. 10, Twp 60N, Rge 01W, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD estimated at -116° 27.622, 48° 33.637

2.

PLACE OF USE: AESTHETIC 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	
60N	01W	10											X						

PLACE OF USE: FIRE PROTECTION 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	
60N	01W	10											X						

PLACE OF USE: WILDLIFE 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	
60N	01W	10											X						

Method of Determination: Google Earth and 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

*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

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

G. NARRATIVE/REMARKS/COMMENTS

Northern Region was tasked with licensing permits that had been examined during the late 1990's and early 2000's. This file was deemed to have enough information to finish the process and issue a license. Examiner, Wayne Baldwin, performed exam on 8/30/2001 and file has sat in vault since then.

A memo was written to explain the location of the following rights; 98-7095, 98-7714, 98-7753, 98-7754, 98-7755, and 98-7756. A map was also attached to show the location of these rights because they were only licensed showing a 40 acre tract. This evaluation was required because there were 6 impoundments of water in a small area and the original exam for this permit was not very specific on the location.

Using new technology, including Arcmap, Google Earth, and the pond analysis tool, we are able to better evaluate and license this older permit. Mr. Baldwin recommended an annual volume of 4.7 acre-feet based upon the size of the pond and max depth. Using Arcmap we are now able to trace the exact surface area of the pond using 2013 imagery. The surface area of the pond was equal to 9.5 acres and an average depth of 2.7 feet. Mr. Baldwin did not have tools available to determine evaporation which we can now do. The total capacity of the pond is 9.5 acre-feet with the evaporation equal to 5.5 acre-feet. This license will be issued for the permitted 15.0 acre-feet even though Mr. Baldwin only recommended 4.7 acre-feet. We used current tools to issue this license for the actual amount of storage that was applied for. Mr. Baldwin recommended that there was no domestic use associated with the pond and that those components should be removed from license. There was no mention of an active pump being present so fire protection from storage will be removed as well.

License and memo review showed that all other rights listed showed the source as an unnamed stream that was tributary to Dodge Creek. This pond was applied for from an unnamed stream tributary to sinks. Evaluation of the DRG and streams layer show that water during high runoff makes its way to Dodge Creek. By changing the tributary on this license, it will also match all other licenses in the same general area.

This permit had very old conditions that will be updated at time of licensing. Conditions 218, 219, and 220 will be put on license to reference size and storage of pond and address fire protection storage. Condition 004 will be left on license because the property is now owned by someone other than applicant. There are no overlap concerns.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
WILDLIFE STORAGE	01/01 to 12/31		15.0 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		15.0 AF
AESTHETIC STORAGE	01/01 to 12/31		15.0 AF
<u>Totals:</u>			15.00 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

Field Examiner's Name Set Date _____

Reviewer Adam Franklin Date 3/12/2018

Daugherty P.E. 6/19/18

Total Storage Calculations

FILE NUMBER	98-7714
REVIEWER	Adam Frederick
DATE	3/5/2018

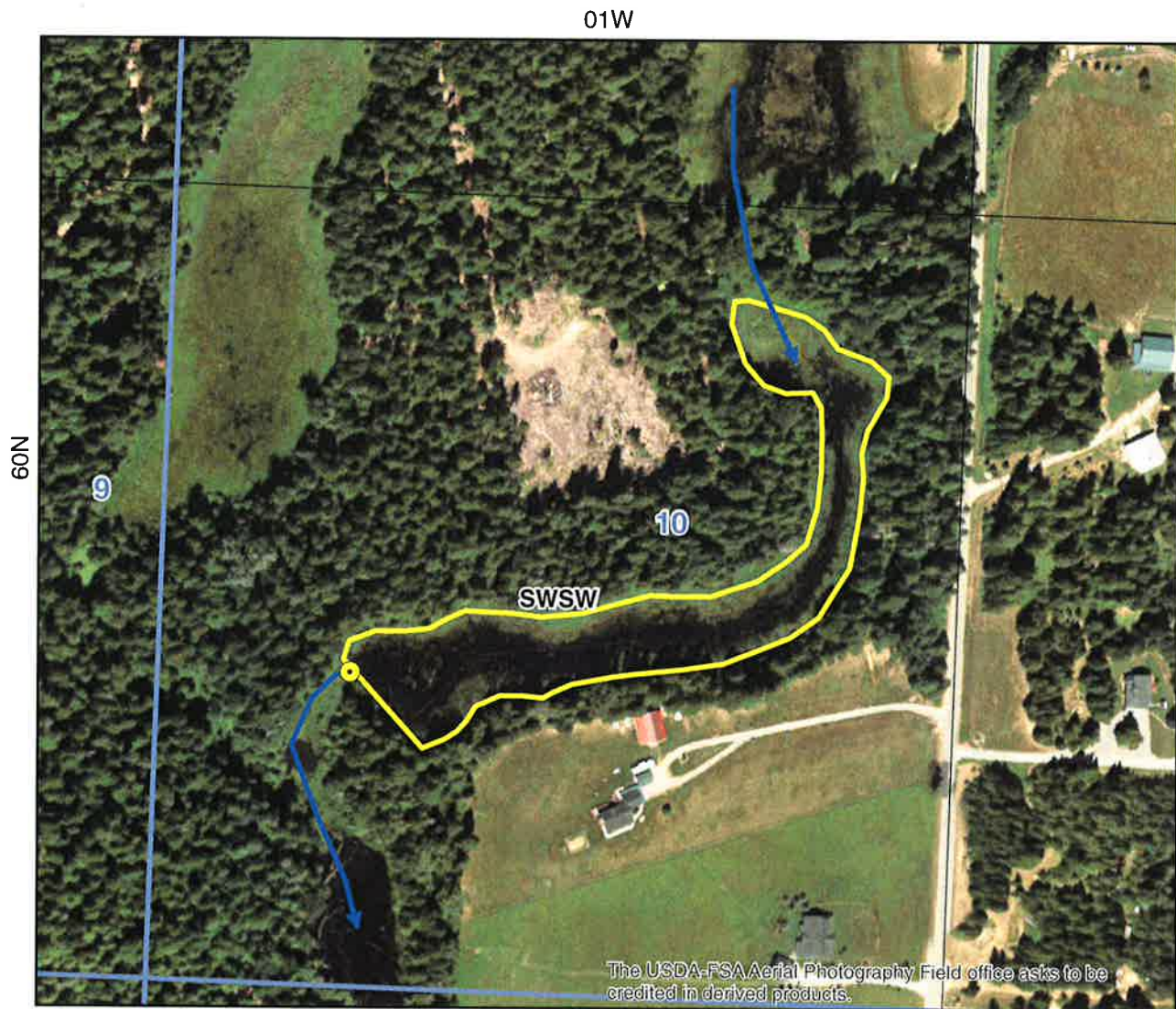
This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	3.5	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.7	"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)	9.5	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 " <u>From Storage</u> " component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	5.5	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	15.0	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.

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7714

AESTHETIC STORAGE, FIRE PROTECTION STORAGE, and AESTHETIC STORAGE / SYSTEM DIAGRAM



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

0 0.035 0.07 0.14 Miles

