

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7733
Exam Date: 09/28/2022

1. Current Owner:
PRIEST RIVER TIMBER LLC 2721 ROAD 84 PASCO WA 99301-1625
2. Accompanied by: Unaccompanied, property access permission granted prior to exam from Mr. Patrick McBurney Sr.
Phone No: 509-412-5522
Address: Same as above
Relationship to permit Holder: Mr. Patrick McBurney Sr. authorized signatory for the applicant's LLC.

3. **SOURCE:**
UNNAMED STREAM

Tributary
PRIEST RIVER

Method of Determination: ArcMap & 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 SW¼ SW¼, Sec. 12, Twp 56N, Rge 05W, B.M. BONNER County

Method of Determination: GPS. POD is an earthen dam located at -116° 54.8168, 48° 12.7171

PLACE OF USE: RECREATION STORAGE, FIRE PROTECTION STORAGE, & AESTHETIC 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	
56N	05W	12											X						

Method of Determination: Beneficial use field examination, ArcMap aerial imagery, & Bonner County GIS tax parcel map imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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

X 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.

G. NARRATIVE/REMARKS/COMMENTS

Department staff performed a field exam on 9/28/2023 unaccompanied, with the applicant Mr. Patrick McBurney Sr authorizing property access prior to the exam, which showed an in-stream pond being used for Recreation Storage, Fire Protection Storage, & Aesthetic Storage uses. At the POD, the applicant has an existing pond with an earthen dam that impounds unnamed stream water from three separate channels which headwater at springs located on the applicant's property. The pond has installed a culvert in the dam that allows overflow discharge to route downstream from the small basin the pond resides in. The permit was approved with a Diversion to Storage beneficial use, but the field exam validated the pond was developed as an in-stream pond negating any development related to diversion to storage; this use was removed from the permit during licensing review.

The POD was designated by GPS as an earthen pond dam constructed along the down slope circumference of the pond. Due to the multiple springs located near the pond, the immediate area around the pond was like a wetland environment but the applicant's property is not a designated wetland. Photographs were taken that illustrate the pond and black poly culvert serving as the overflow device for the pond. The storage pond serves as the POU for multiple storage beneficial uses detailed above, and no water is actively pumped from the pond for use by the applicant.

During licensing review, ArcMap aerial imagery coupled with field exam notes were used to trace out the pond's surface area, which rounds up to 0.2 acres considering department rounding standards. The pond has a maximum depth of 12 feet, an average depth of 4.8 ft, a pond capacity of 1.0 af, and an estimated seepage & evaporation loss of 0.4 af. Based on pond development and current pond analysis worksheet calculations, each beneficial use annual volume equals 1.4 af, which is not additive toward the maximum diversion volume of **1.4 af** recommended for licensing this right.

Conditions 029 & 220 were removed from the permit during licensing review. 220 was removed based on licensing guidance from Shelley Keen – IDWR Regional Operations Bureau Chief. Condition 219 was revised to reflect accurate pond volume data derived during licensing review. All other conditions on the permit shall be carried to licensing. There are no overlap concerns for this water right.

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>Annual Volume</u>
RECREATION STORAGE	01/01 to 12/31	1.4 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	1.4 AF
AESTHETIC STORAGE	01/01 to 12/31	1.4 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

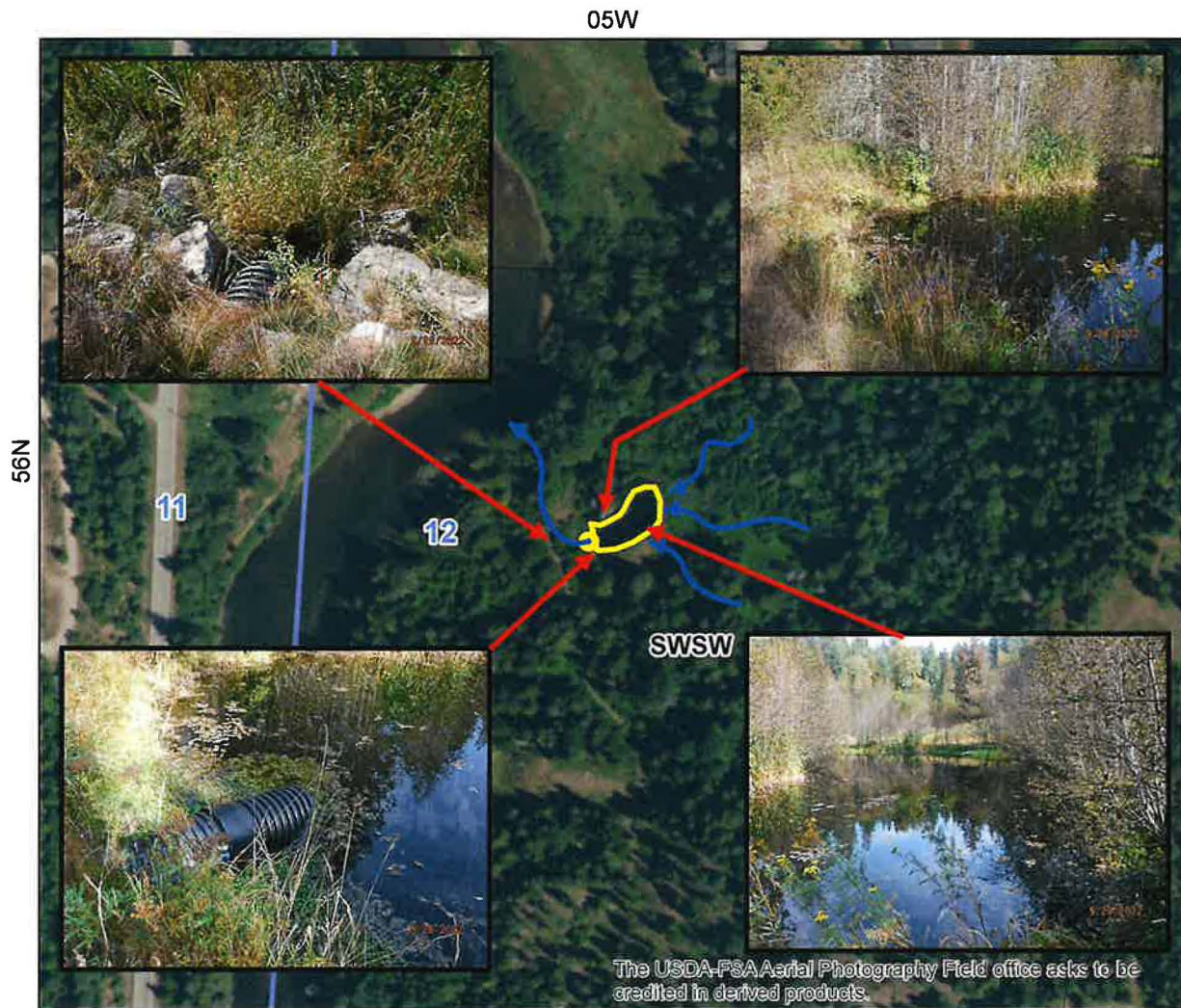
I. AUTHENTICATION Luke Bates -

Field Examiner's Name  Date 11/01/2023

Reviewer  Date 5/14/2024

State of Idaho
Department of Water Resources
Attachment to Field Exam
97-7733

RECREATION STORAGE, FIRE PROTECTION STORAGE, & AESTHETIC STORAGE system diagram.



0 0.035 0.07 0.14 Miles

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



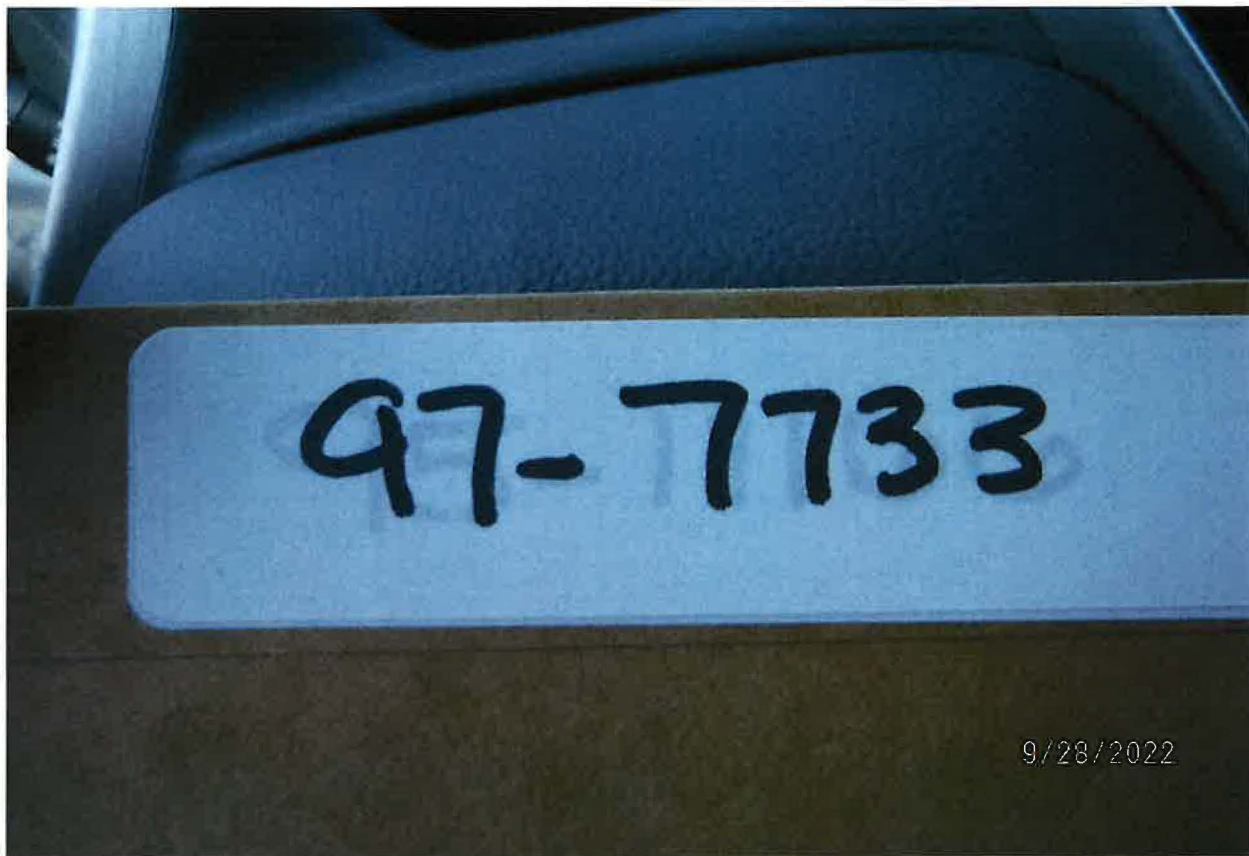
Total Storage Calculations

FILE NUMBER	97-7733
REVIEWER	Luke Bates
DATE	11/1/2023

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.)	0.2	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4.8	"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)	1.0	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 "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.



BENEFICIAL USE FIELD EXAM DATE 9/28/2022



POD – POND EARTHEN DAM WITH STORM DRAIN PIPE OVERFLOW DEVICE INSTALLED



OVERFLOW WATER DISCHARGES DOWN GRADE TO PRIEST RIVER



STORAGE POND POU – RECREATION, FIRE PROTECTION, & AESTHETIC STORAGE(S)



POU - MULTIPLE USE STORAGE POND

