

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15814
Exam Date: 06/10/2021

1. Current Owner:
JOAN WITTMAN 6045 CACTUS LN LEWISTON ID 83501-5197 AND/OR
MARK WITTMAN 6045 CACTUS LN LEWISTON ID 83501-5197
2. Accompanied by: Unaccompanied – permission from Permit Holder Mark Wittman via phone conversation.

3. **SOURCE:**
TAMMANY CREEK

Tributary
SNAKE RIVER

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
85-15767	GROUNDWATER	STOCKWATER	LICENSE

Comments: licensed Right 85-15767 uses a groundwater source for stockwater use which overlaps this rights POU on the applicant's property, but is not a concern for overlap with this Permit's POU.

2. Other water rights with the same point-of-diversion: NO Overlap

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

TAMMANY CREEK SE¼ SE¼, Sec. 23, Twp 35N, Rge 06W, B.M. NEZ PERCE County

Method of Determination: GPS; POD is an earthen dam located at -117°02.838, 46°21.325.

PLACE OF USE: FIRE PROTECTION STORAGE and 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	
35N	06W	23																X	

Method of Determination: field exam 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 worksheet.

G. NARRATIVE/REMARKS/COMMENTS

An unaccompanied field exam was performed on 6/10/2021 with verbal permission by the applicant, Mark Whittman. The exam showed a small in-stream pond that impounds Tammany Creek water for fire protection & aesthetic storage uses. The POD is an excavated earthen dam, with basalt rock overflow channel installed to allow overflow to discharge downstream from the pond. There is no diversion rate associated with this permit.

Photographs were taken during the field exam to illustrate the storage pond that serves as the POU for fire protection & aesthetic storage use(s). Following the exam, Arcmap aerial imagery was used to trace out the surface area of the pond equaling 0.3 acres. The pond has a maximum depth of 12 feet, an average depth of 4.8 feet, pond capacity of 1.4 af, and a seepage & evaporation loss of 0.9 af annually. The total annual volume required equals **2.3 af**, which is recommended as each of the beneficial use annual volume(s), as well as the maximum diversion volume for licensing purposes.

The pond was developed by the applicant for both fire protection storage & aesthetic storage uses, but also as a silt trap for Tammany Creek. Mr. Whittman asserts the pond serves as a settling point for the stream water, which has heavy sediment loads. In the short period of time the pond has been excavated and in use, the built up of sediment is very evident, and photographs were taken to show the sediment deposits in the pond. This becomes important, as the pond will likely be cleaned out annually by the applicant, but this process does not allow deepening of the pond as excavated with the 12 foot maximum depth.

Condition 029 was removed from the permit during licensing review. Conditions 219 & 220 were updated to reflect pond size and volume factors as built out by during the excavation of the pond. All other conditions on the permit shall be carried forward to the license. Licensed Right 85-15767 uses a groundwater source for stockwater use which overlaps this rights POU on the applicant's property, but is not a concern for overlap with this Permit's POU. There are no additional 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>
FIRE PROTECTION STORAGE	01/01 to 12/31	2.3 AF
AESTHETIC STORAGE	01/01 to 12/31	2.3 AF

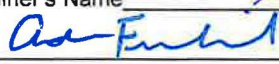
Totals: 2.3 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

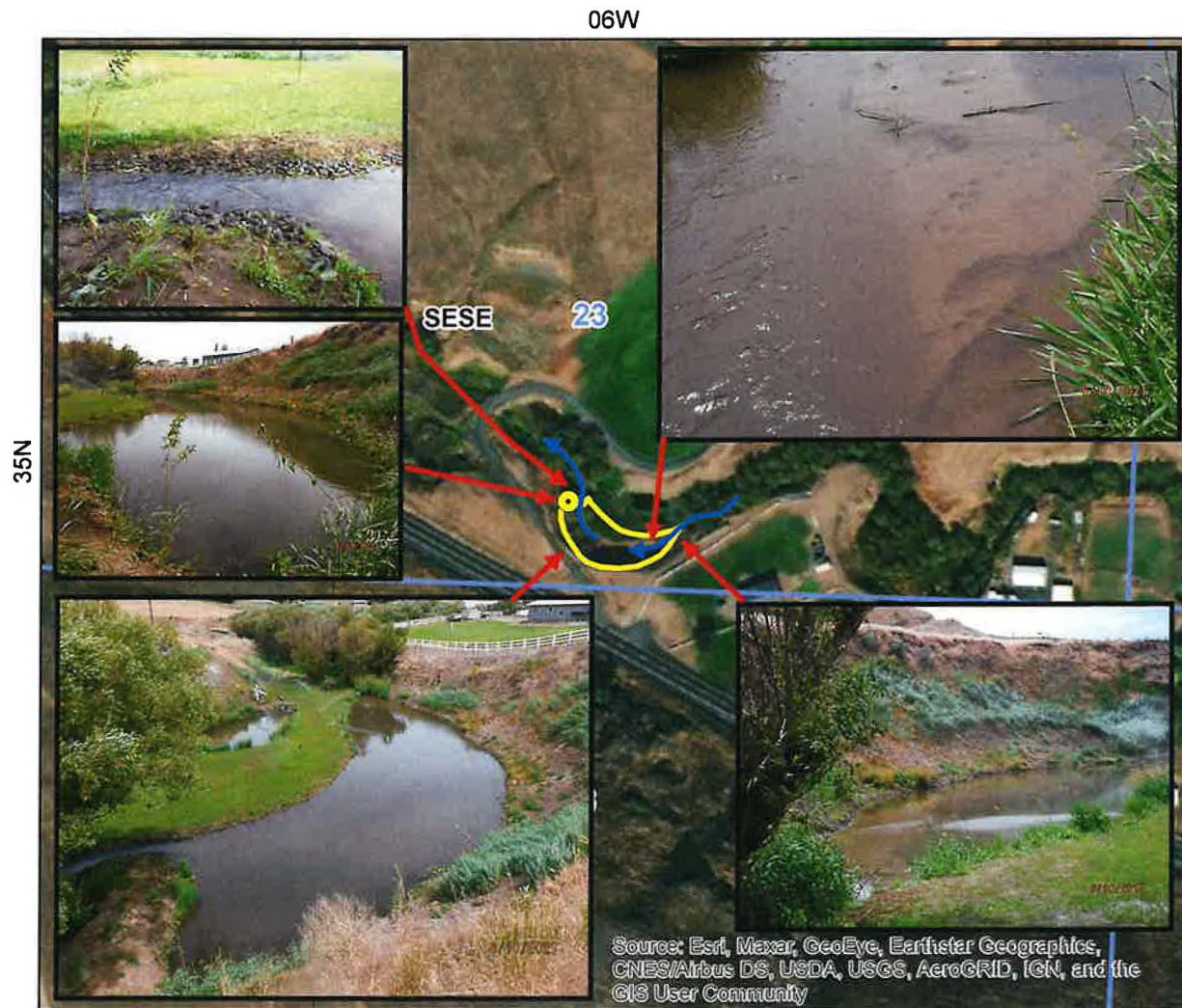
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name  Date 8/23/2021
Reviewer  Date 10/29/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15814

FIRE PROTECTION STORAGE and AESTHETIC 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

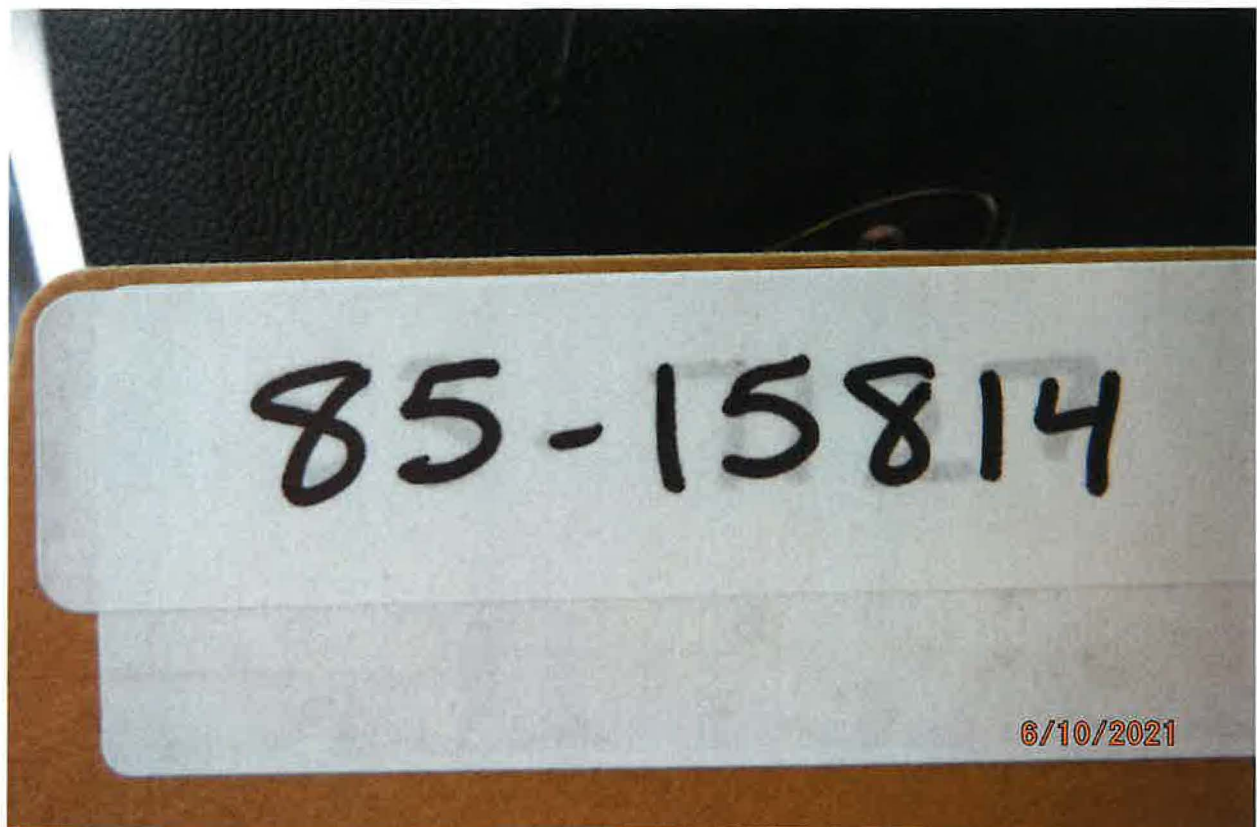
FILE NUMBER	85-15814
REVIEWER	LUKE BATES
DATE	8/23/2021

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

Surface Area (AC.)	0.3	"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)	1.4	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)	0.4	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.5	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	2.3	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.



FIELD EXAM DATE 6/10/2021



POD – INFLOW FROM TAMMANY



AESTHETIC STORAGE & FIRE PROTECTION STORAGE POU – INSTREAM POND





OUTFLOW FROM POND – ROCKED STREAM CHANNEL



SILT DEPOSITED AS WATER FLOW ENTERS POND