

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12053
Exam Date: 03/14/2024

1. Current Owner:
JOHN VISGER 1077 LARSON RD MOSCOW ID 83843 AND/OR
CHERISH VISGER 1077 LARSON RD MOSCOW ID 83843
2. Accompanied by: Applicant John Visger gave permission to access property for field exam
Phone No: (509) 432-4078
Address: Same as above
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: ArcMap & GPS Locator

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:**

GROUND WATER NW¼ SW¼, Sec. 17, Twp 39N, Rge 04W, B.M. LATAH County with evidence of a channel of water flowing from a culvert at the driveway to the pond.

Method of Determination: **Field Exam and GPS Locator -116 52.314, 46 43.302 POD**

PLACE OF USE: 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	
39N	04W	17										X							

Method of Determination: **ArcMap & DRG**

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
NONE					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Using our diagram I drew the pond borders, which are evident on ArcMap, and we located the flow through points both into the pond and out of the pond. There is a rock overflow area noted on map as well.

E. FLOW CALCULATIONS

Measured Method: No Measurements could be taken. There were multiple flows going into the pond. The main one was evident in the pictures leading to the pond and then flowing out of the pond.

F. VOLUME CALCULATIONS

11. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: **See attached Pond Analysis Worksheet for Total Annual Volume of 21.4 af.**

G. NARRATIVE/REMARKS/COMMENTS

Department staff performed a field exam on March 14, 2024, unaccompanied, with the applicant Mr. John Visger authorizing property access prior to the exam. There was evidence of groundwater flowing from a culvert in the driveway, through the field and to the pond. There were several other channels of water flowing to the pond from different areas. The use for the pond is Aesthetic Storage. The applicant has an earthen dam that impounds groundwater from sources flowing into the pond, as well as the groundwater that naturally fills the pond. The pond has a rock outflow channel that allows overflow & discharge to route downstream to an unnamed stream that flows into the Middle Fork Potlatch Creek.

The POD was designed by excavating the low point of the field to allow the groundwater to naturally fill the pond and it draws the surface runoff to channel to the pond. This allows the crops surrounding the pond to grow without pooling water as witnessed in historical imagery on Google Earth. There is an earthen dam constructed along the down slope of the pond. The rock outflow channel runs into the unnamed stream which flows into the Middle Fork Potlatch Creek. Photographs were taken that illustrate the pond and the rock channel outflow serving as the overflow device for the pond. The storage pond serves as the POU for aesthetic beneficial use, 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 is 3 acres considering department rounding standards. The pond has a maximum depth of 15 feet, an average depth of 6 ft, a pond capacity of 18 af with an estimated seepage/evaporation loss of 3.4 af. Based on pond development and current pond analysis worksheet calculations, the beneficial use annual volume equals 21.4 af, which is what is recommended for licensing this right.

Condition 026 was removed and Condition 220 was also removed based on licensing guidance from Shelley Keen – IDWR Regional Operations Bureau Chief. 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>Rate of Diversion</u>	<u>Annual Volume</u>
AESTHETIC STORAGE	01/01 to 12/31		21.4 AF

Totals:

21.4 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

Tammy Alleman -

Field Examiner's Name Tammy Alle Date 4/10/24

Reviewer Chris Bell Date 2/4/2025

Total Storage Calculations

FILE NUMBER	86-12053
REVIEWER	Tammy Alleman
DATE	3/14/2024

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

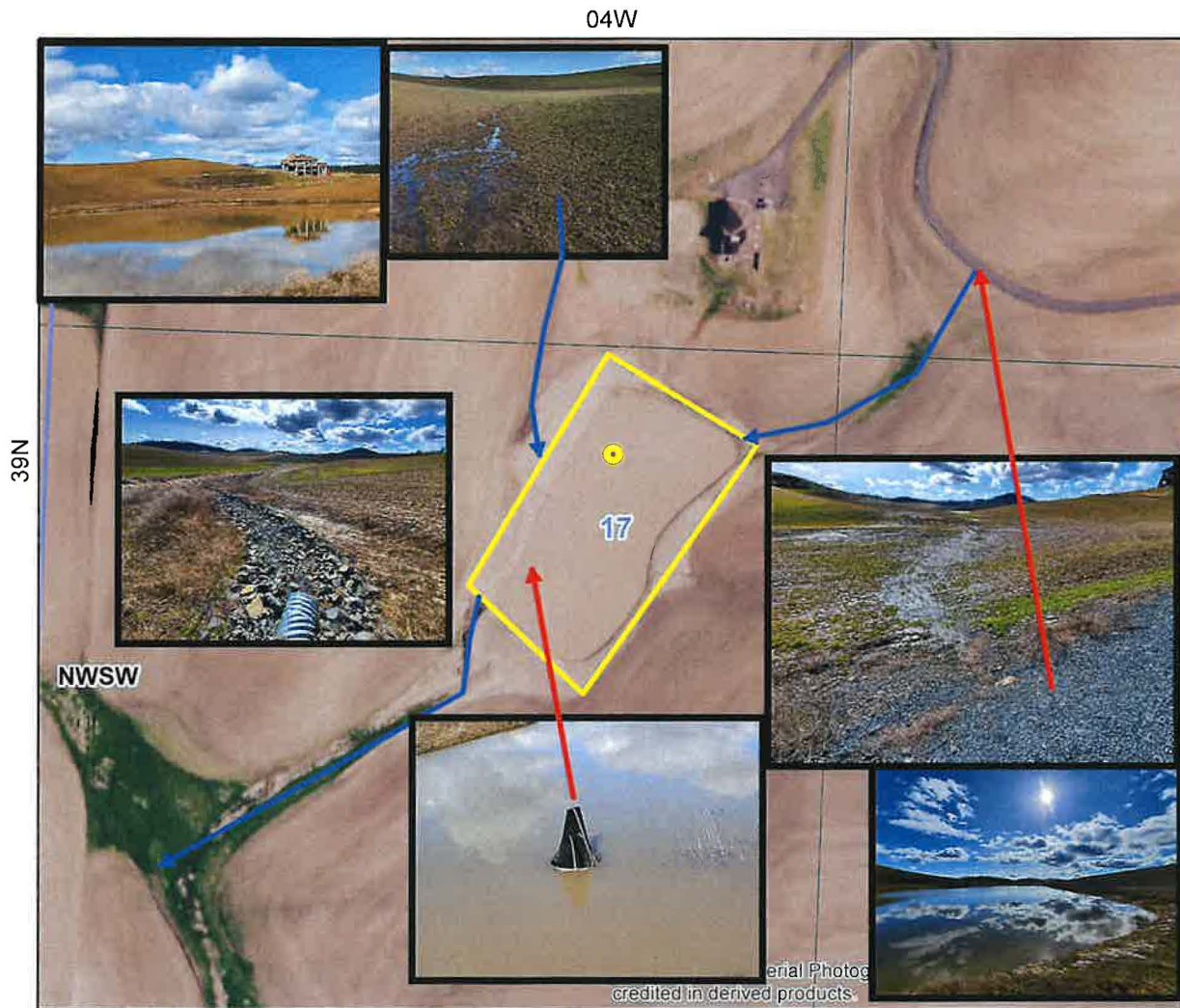
User Input
Calculated value
Formula Explanations

Surface Area (AC.)	3	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	6	"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)	18	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)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	3.4	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	21.4	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.

State of Idaho
Department of Water Resources
Beneficial Use Field Exam
86-12053

This map depicts the AESTHETIC STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.035 0.07 0.14 Miles

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





Culvert with natural flow of water from driveway



Continued Natural Flow to pond



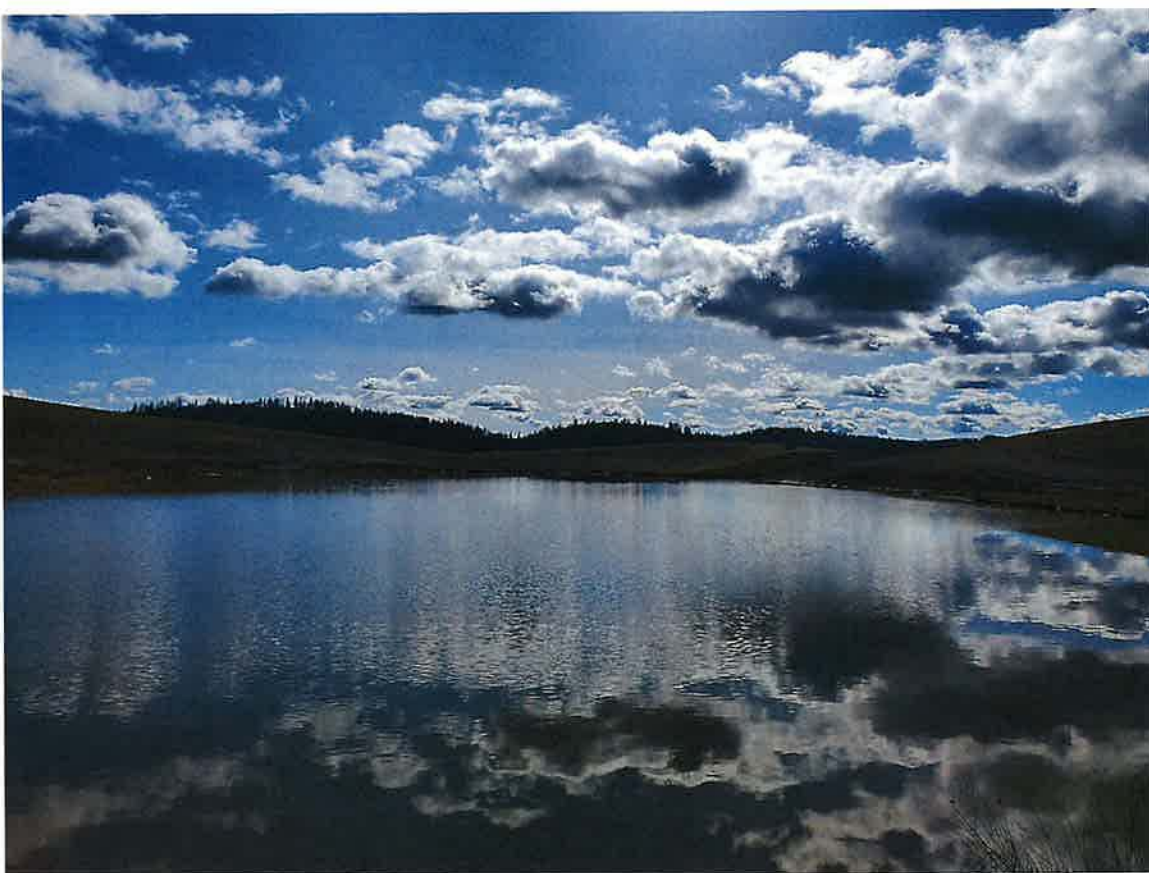
Northeast flow going into Pond



Northwest flow going into Pond

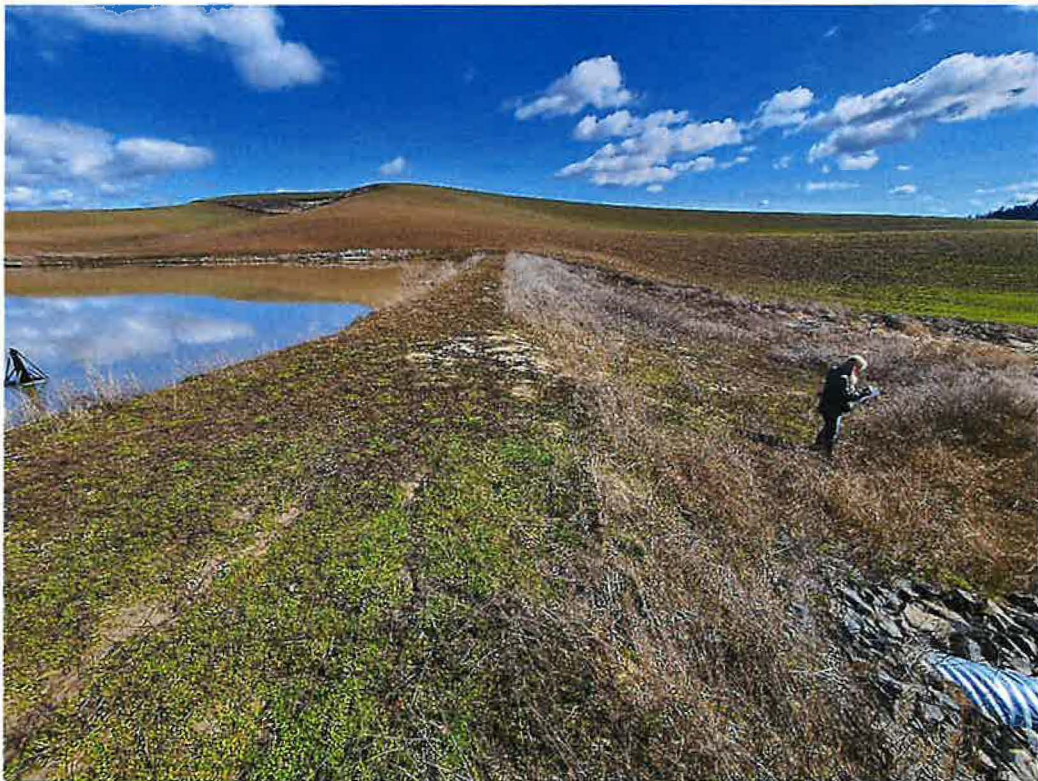


Aesthetic Use





Overflow pipe at southwest corner of pond near outflow channel



Earthen Dam Approximately 250 feet long



Rock Outflow Channel

