

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 84-12292  
**Exam Date:** 06/14/2021

1. Current Owner:  
LODGE AT LOLO CREEK LLC 4307 SNAKE RIVER AVE LEWISTON ID 83501-5195
2. Accompanied by: Brian DeAtley  
Phone No: 509-780-2031  
Address: Same as above  
Relationship to permit Holder: Registered Agent for LLC

3. **SOURCE:**  
UNNAMED STREAM

**Tributary**  
TOM TAHA CREEK

**Method of Determination:** Arcmap and 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 SYSTEM**1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM SW¼ NW¼, Sec. 25, Twp 34N, Rge 04E, B.M. IDAHO County

Method of Determination: GPS; POD is an earthen dam located at -115°54.576, 46°15.698.

**PLACE OF USE:** WILDLIFE STORAGE, RECREATION STORAGE, and FIRE PROTECTION 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 |        |
| 34N | 04E | 25  |    |    |    |    |    | X  | 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**

Field exam performed on 6/14/2021 with the applicant, Brian DeAtley, showed a reservoir that impounds unnamed stream water for multiple storage uses. An excavated earthen dam serves as the POD for the reservoir that sits in a small basin on the applicant's property. A primary screened large corrugated plastic culvert provides overflow discharge to route downstream, and a secondary basalt rock overflow channel is positioned on the opposite side of the dam to allow overflow capability during excessive runoff periods. There is no diversion rate associated with this permit.

Photographs were taken during the field exam to illustrate the storage reservoir that serves as the POU for fire protection storage, wildlife storage, and recreation storage uses. Following the exam, Arcmap aerial imagery was used to trace out the surface area, and a Department pond analysis worksheet utilized to determine the pond size and volume components. The reservoir has a surface area equal to 5.2 acres, a maximum depth of 17 feet, average depth of 6.8 feet, pond capacity of 35.4 af, and seepage & evaporation loss of 7.6 af annually. The total volume required to keep the pond full year round equals **43.0 af**, which is recommended as the annual volume for each of the three storage uses, and as the maximum diversion volume for licensing purposes. The reservoir is used by the applicant for fishing, and fish feeders were stationed at intervals around the pond. Additionally, the reservoir is used for boating and swimming, with a boat docked on the water at time of field exam. The applicant aerates the pond regularly to keep water quality high for the fish in the pond.

Conditions 219 and 220 were updated during licensing review to reflect post pond development pond analysis worksheet size and volume metrics. All other conditions on the permit shall be carried forward 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> |
|-------------------------|----------------------|----------------------|
| WILDLIFE STORAGE        | 01/01 to 12/31       | 43.0 AF              |
| RECREATION STORAGE      | 01/01 to 12/31       | 43.0 AF              |
| FIRE PROTECTION STORAGE | 01/01 to 12/31       | 43.0 AF              |

**Totals:** 43.0 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

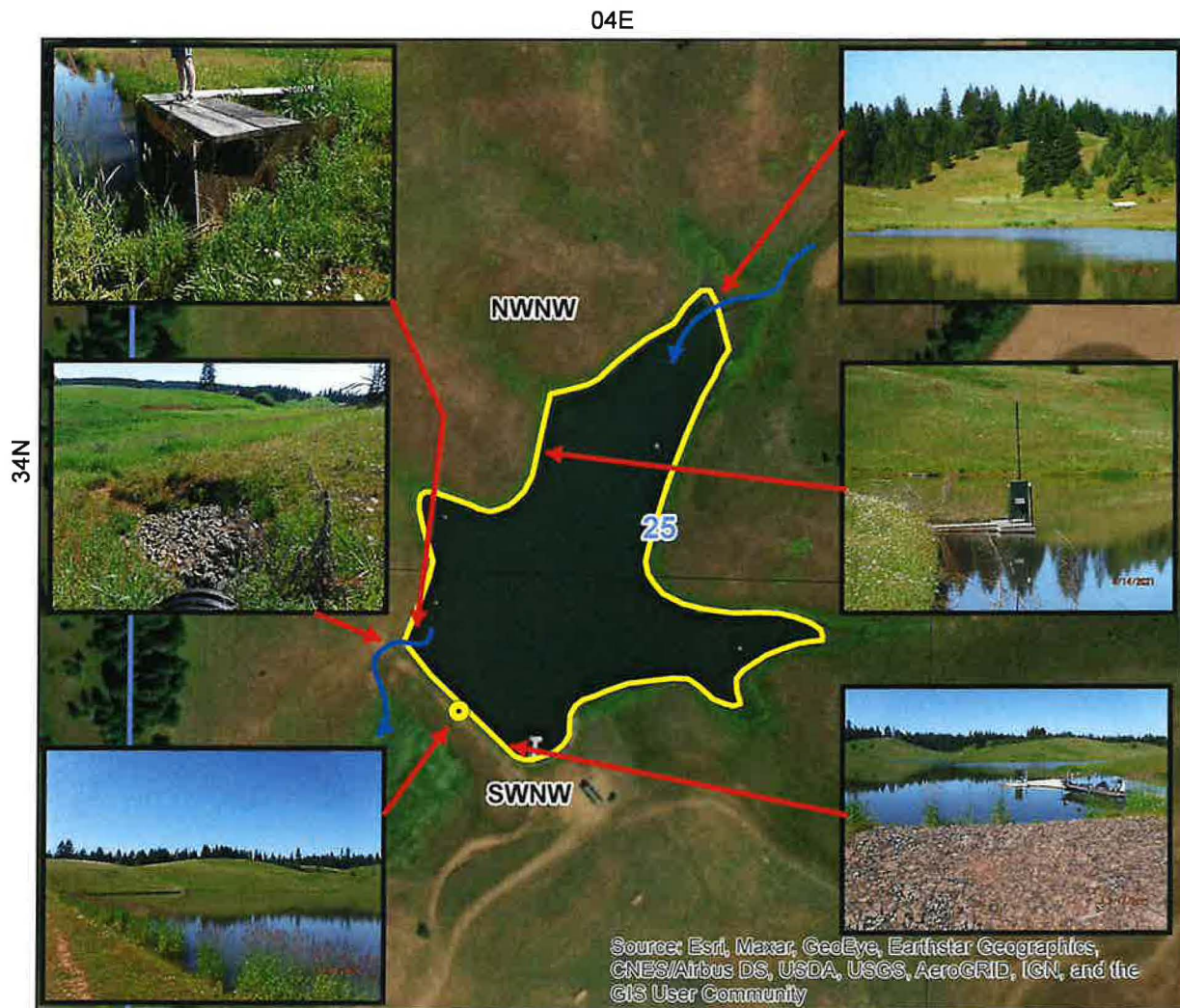
**I. AUTHENTICATION**      Luke Bates - Water Resource Agent

Field Examiner's Name *[Signature]* Date 8/27/2021

Reviewer *[Signature]* Date 10/29/2021

State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
84-12292

WILDLIFE STORAGE, RECREATION STORAGE, and FIRE PROTECTION STORAGE system diagram.



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

0 0.035 0.07 0.14 Miles



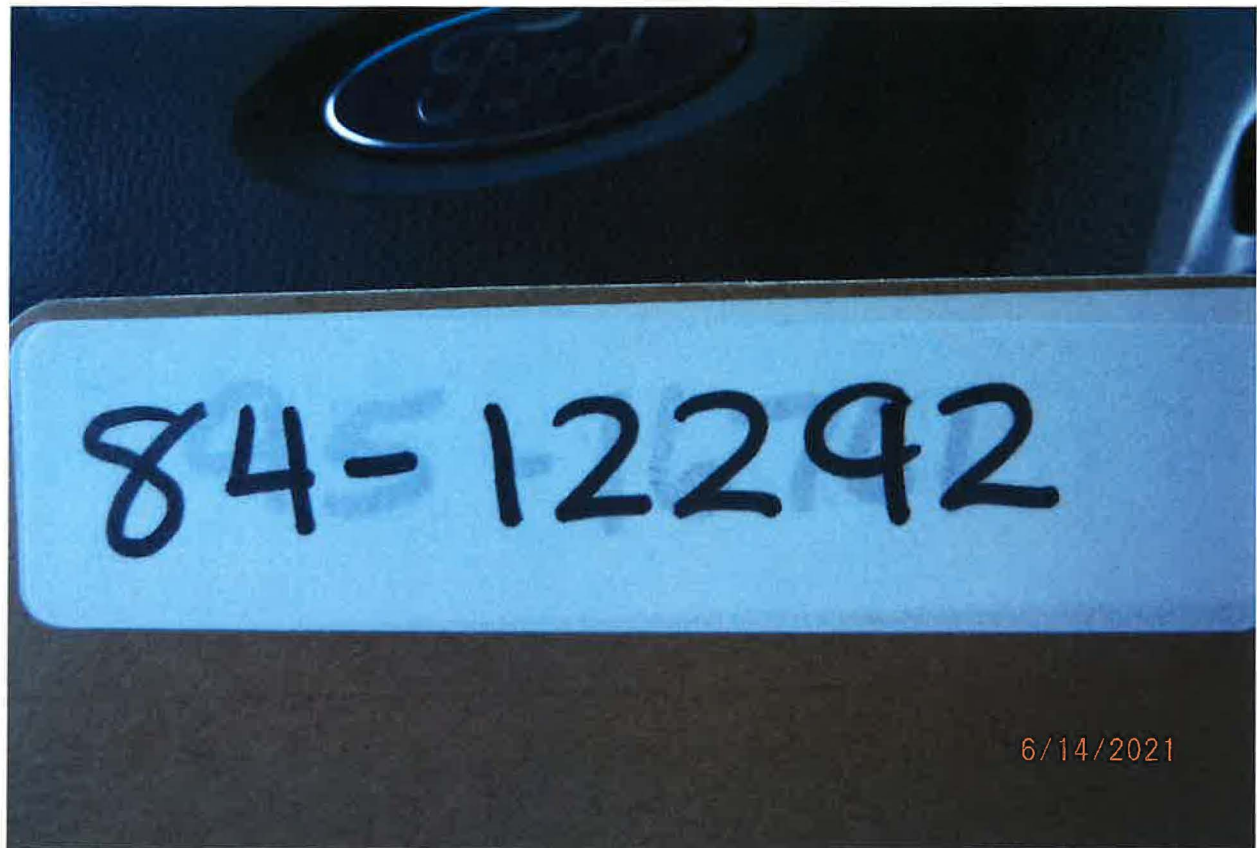
## Total Storage Calculations

|             |            |
|-------------|------------|
| FILE NUMBER | 84-12292   |
| 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.)                                                                           | 5.2  | "Surface Area" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Average Pond Depth (FT.)                                                                     | 6.8  | "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)                                                                           | 35.4 | 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.<br>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).<br>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)                                                                  | 5.7  | The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Estimated Evaporation Loss (AF)                                                              | 1.9  | The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Total Volume Required (AF)                                                                   | 43.0 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



FIELD EXAM DATE 6/14/2021



POD – POND EARTHEN DAM



PRIMARY OVERFLOW DEVICE – CORRUGATED SCREENED PIPE



OVERFLOW DISCHARGE PIPE – ROUTES OVERFLOW DOWNSTREAM INTO SMALL DRAINAGE



SECONDARY (EMERGENCY) OVERFLOW DISCHARGE DEVICE – ROCKED WEIR CHANNEL



VIEW LOOKING DOWNGRADE FROM POND DAM



INFLOW TO POND FROM UNNAMED STREAM



RECREATION, WILDLIFE, & FIRE PROTECTION STORAGE(S) POU



RECREATION, WILDLIFE, & FIRE PROTECTION STORAGE(S) POU





RECREATION, WILDLIFE, & FIRE PROTECTION STORAGE(S) POU



FISH FEEDER