

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 96-9606  
**Exam Date:** 04/15/2021

1. Current Owner:  
ROBERT CROUSORE 7343 BOLERO ST CARLSBAD CA 92009-7103 AND/OR  
MELIA CROUSORE 7343 BOLERO ST CARLSBAD CA 92009-7103
2. Accompanied by: Terry Crousore  
Phone No: 208-946-9759  
Address: 342 Forever Ranch Rd, Athol ID, 83801  
Relationship to permit Holder: Permit holder

3. SOURCE:  
SPRING

Tributary  
SINKS

**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:  
SPRING NE¼ SW¼ SE¼, Sec. 10, Twp 54N, Rge 02W, B.M. BONNER County

Method of Determination: GPS; POD is an earthen dam located at -116°33.1662, 48°2.2421.

PLACE OF USE: RECREATION STORAGE, FIRE PROTECTION STORAGE, and WILDLIFE 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 |        |
| 54N | 02W | 10  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| NONE                      |            |    |                  |           |                                   |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| N/A                   |      |      |           |            |      |             |

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 4/15/2021 with the applicant, Terry (Robert) Crousore, showed a pond that impounds spring water and is used for wildlife, recreation, and fire protection storage(s) purposes. The POD is an excavated earthen dam situated in a small draw. A vertical overflow discharge pipe is installed beneath a small dock located center of the dam, allowing overflow to discharge downgrade from the dam; peak spring discharged water routes from the discharge pipe downgrade and sinks on the applicant's property. 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 the three beneficial uses listed above. 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 10 feet, an average depth of 4 feet, pond capacity of 1.2 af, and a seepage & evaporation loss of 0.8 af annually. The total volume required equals 2.0 af annually for each respective beneficial use on the permit. Wildlife storage, recreation storage, and fire protection storage annual volumes are not additive, resulting in a recommended maximum diversion volume for licensing purposes of 2.0 af. The volume recommended for licensing is 0.4 af smaller than the permit was approved for. It is likely the current pond analysis worksheet used during licensing review more accurately derived pond volume factors than the method used at time of application submission. The pond is spring fed, but there is still a seepage factor applied to the pond as water seeps from other areas within the pond's high water mark.

Conditions 26A and 082 were removed from the permit during licensing review. Condition 219 and 220 were both updated to reflect pond size and volume factors determined after the field exam. All other conditions from the permit will be carried forward to the license. There are no 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> |
|-------------------------|----------------------|----------------------|
| RECREATION STORAGE      | 01/01 to 12/31       | 2.0 AF               |
| FIRE PROTECTION STORAGE | 01/01 to 12/31       | 2.0 AF               |
| WILDLIFE STORAGE        | 01/01 to 12/31       | 2.0 AF               |

Totals: 2.0 AF

##### 2. Recommended Amendments

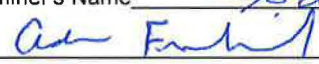
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

#### I. AUTHENTICATION

Luke Bates - Water Resource Agent

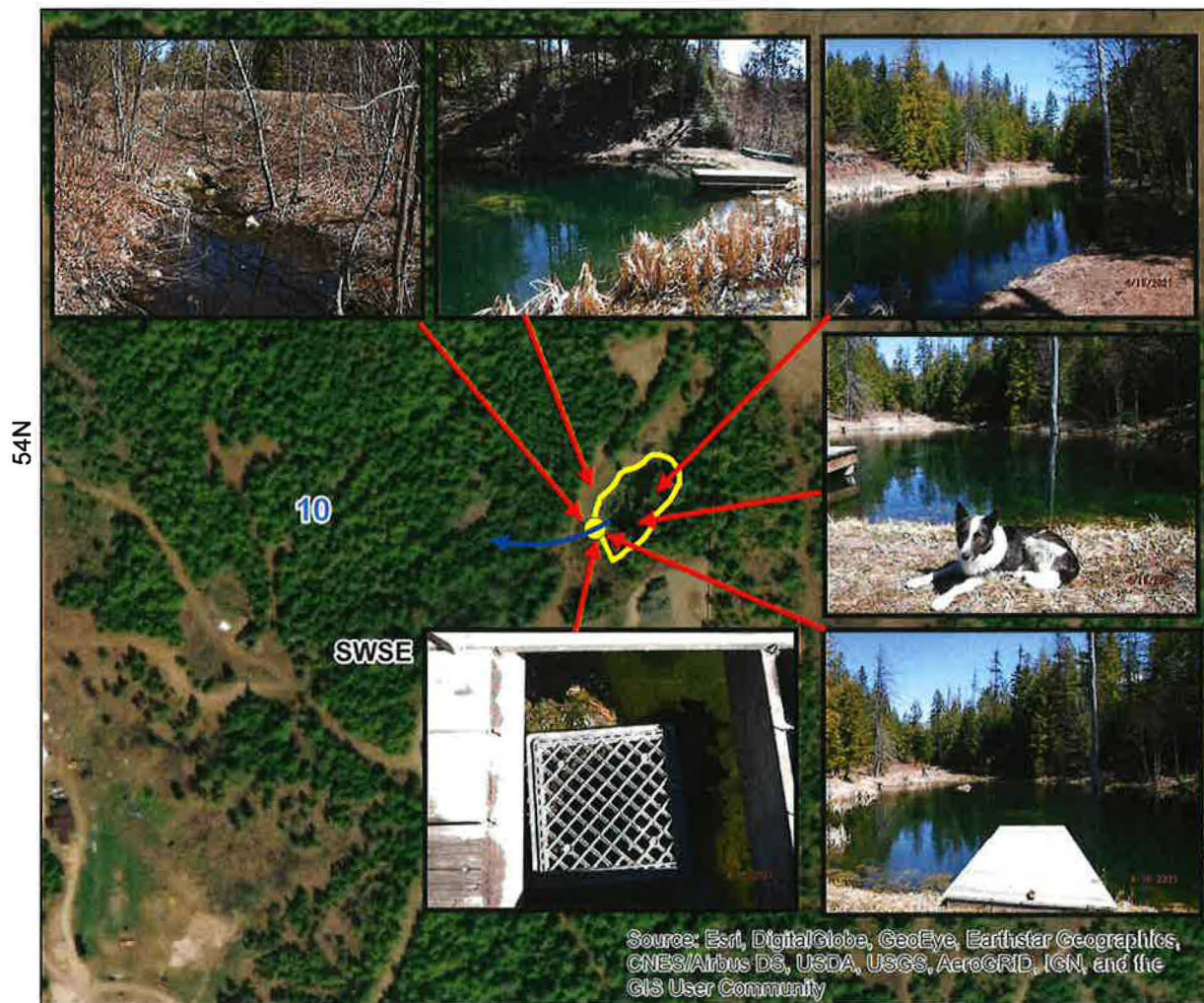
Field Examiner's Name  Date 4/16/2021

Reviewer  Date 4/30/2021

State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
96-9606

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

02W



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

0 0.035 0.07 0.14 Miles



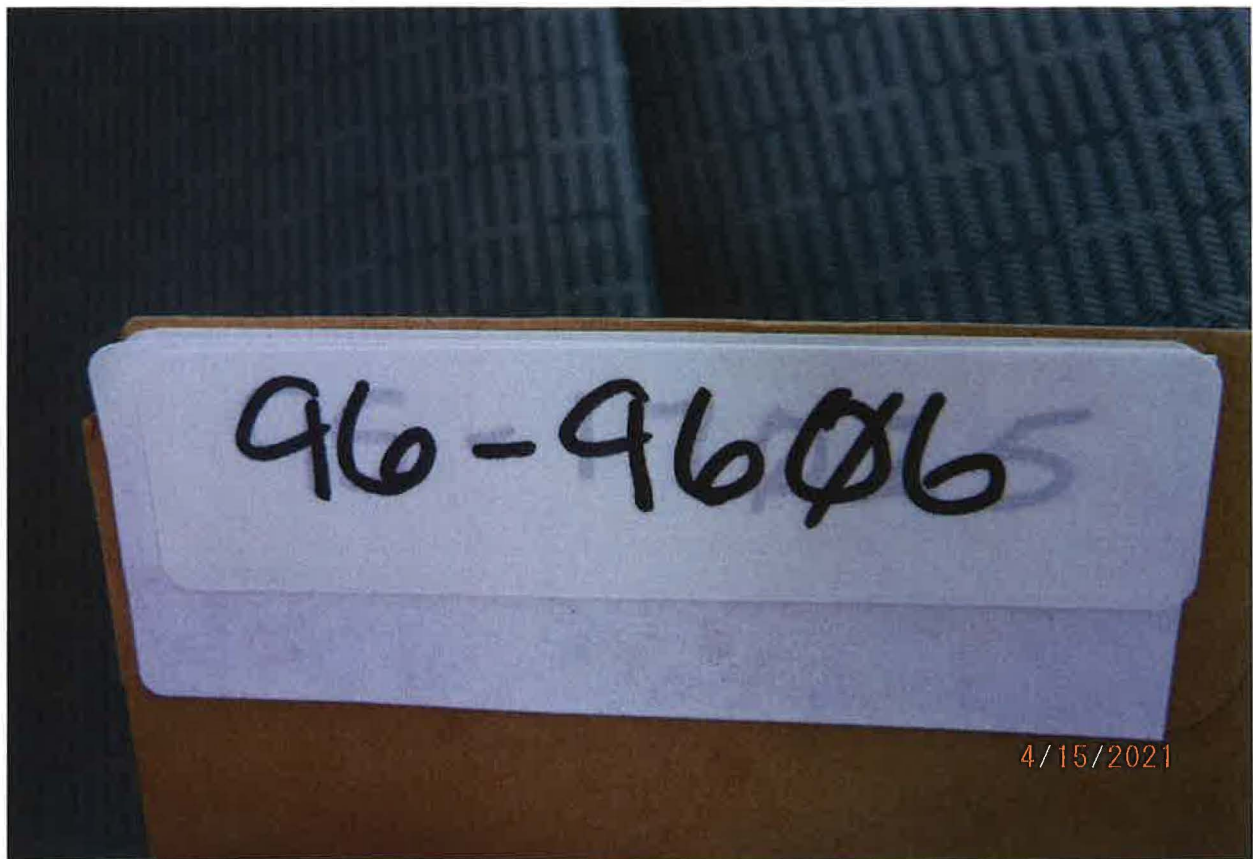
## Total Storage Calculations

|             |            |
|-------------|------------|
| FILE NUMBER | 96-9606    |
| REVIEWER    | LUKE BATES |
| DATE        | 4/16/2021  |

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   | "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)                                                                           | 1.2 | 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><b>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.</b>                                                                                                                                                                                                                                                                                                                                                                                         |
| 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><b>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</b> |
| Estimated Seepage Loss (AF)                                                                  | 0.4 | The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Estimated Evaporation Loss (AF)                                                              | 0.4 | The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Total Volume Required (AF)                                                                   | 2.0 | 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 – 4/15/2021



POD – EARTHEN DAM



OVERFLOW DISCHARGE PIPE WITH DEBRIS COVER



OVERFLOW DISCHARGE PIPE BELOW DAM



POU – FIRE PROTECTION STORAGE, RECREATION STORAGE, AND WILDLIFE STORAGE POND





POU – FIRE PROTECTION STORAGE, RECREATION STORAGE, AND WILDLIFE STORAGE POND





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