

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 22-14344

**Exam Dates:** 10/24/24

**Accompanied by:** Jeff Klausman, pond designer

Examiner: Christian Stewart, IDWR Water Resource Agent

1. Current Owner:

FERRARONE FAMILY LIVING TRUST  
8 RYAN AVE  
MILL VALLEY CA 94941-2124

2. **SOURCE: GROUND WATER**

**B. OVERLAP REVIEW**

1. Place of Use: Water rights 22-10762, 22-14344, and 22-14345 are combined rights authorizing storage for two wildlife ponds. The ponds are limited to 31.6 acre feet volume and surface area of 17.7 acres.

2. Point of Diversion: No overlap.

**C. DIVERSION AND DELIVERY SYSTEM**

Ponds receive surface water from Woods Creek under right 22-10762 through a ditch. The ponds are also located in the groundwater table, and store shallow groundwater under this permit. Right 22-14345 diverts from a flowing artesian well and can divert groundwater for storage into the ponds.

1. **POINT OF DIVERSION:**

GROUND WATER SW $\frac{1}{4}$  NE $\frac{1}{4}$ , Sec. 32, Twp 05N, Rge 45E, B.M. TETON County  
GROUND WATER SW $\frac{1}{4}$  NW $\frac{1}{4}$ , Sec. 33, Twp 05N, Rge 45E, B.M. TETON County

Method of Determination: Site inspection, GPS

Three points of diversion were listed on the application and the permit. The "diversion" type is groundwater interception. The place of use covers three (3) quarter-quarters, and the application applied for a point of diversion at each of the three quarter-quarters partially covered by the two (2) ponds. Other licenses issued by IDWR that list groundwater

originating from the water table (approval condition 123) refer to each individual pond as a point of diversion, and do not list multiple points of diversion on the license for each pond, even if the place of use is in multiple quarter-quarters. Points of diversion for these types are generally mapped at the centroid of the pond. For consistency with other water rights, there are two points of diversion, not three on the license.

## 2. **PLACE OF USE:** WILDLIFE STORAGE

| Twp | Rng | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Total<br>s |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |            |
| 05N | 45E | 32  |    |    | X  | X  |    |    |    |    |    |    |    |    |    |    |    |    |            |
| 05N | 45E | 33  |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |            |

Right Acre Limit: NA

Total Acres: NA

Method of Determination: Site inspection. Aerial imagery.

## F. **VOLUME CALCULATIONS**

Storage Surface Area: 17.7 acres (aerial imagery)

Reservoir Average Depth: 1.785 feet (seems reasonable, back-calculated from Intermountain Aquatics topographic survey conducted before ponds built)

Pond Volume: (average depth x surface area) = 31.6 AF

Evaporation = 17.7 acres \* 1.59 ft/yr = 28.1 AFA (ET Idaho Driggs 102676)

## G. **NARRATIVE/REMARKS/COMMENTS**

Rights 22-14344, 22-14345, and 22-10762 authorize various components for storage and evaporation of the ponds.

Volumes Authorized by Rights - Broken Down by Right

| Right                     | One Time Initial Fill | Evaporation Loss<br>(consumptive use<br>authorized) | Total |
|---------------------------|-----------------------|-----------------------------------------------------|-------|
| 22-14344                  | 16.5                  | 0                                                   | 16.5  |
| 22-14345                  | 0                     | 9.0                                                 | 9.0   |
| 22-10762                  | 15.1                  | 22.1                                                | 37.2  |
| <b>Combined<br/>Limit</b> | 31.6                  | 22.1                                                | 53.7  |
| <b>Pond<br/>Volume</b>    | 31.6                  | 28.1                                                |       |

### Accounting Initial Fill and Carryover for the Ponds

| Authorization/Mitigation Method          | Initial Fill/Carryover (af) | Recurring Evaporation Loss (af)    |
|------------------------------------------|-----------------------------|------------------------------------|
| Existing Right 22-10762                  | 15.1                        | 13.1 (Woods Creek)                 |
| Wetland Removal by inundation            | 0                           | 6.0                                |
| 4.4 acre Nature of Use Transfer 22-10762 | 0                           | 9.0 (Woods Creek)                  |
| 4.4 acre Nature of Use Transfer 22-14026 |                             | 9.0 (evaporation from groundwater) |
| Non-use of 22-14026 (5.6 acres) in 2019  | 11.3                        | 0                                  |
| WSB Rental (2.6 acres 22-14026)          | 5.2                         | 0                                  |
| <b>Total</b>                             | <b>31.6</b>                 | <b>28.1</b>                        |

First fill of the ponds has been adequately mitigated through WSB rentals and non-use of 22-14026 in 2019. For ongoing evaporation losses to the ponds, 15.0 AF out of 28.1 AF is accounted for on an ongoing basis from groundwater rights and wetland removal. Right 22-10762 from Woods Creek must account for the remaining 13.1 af/yr of ongoing evaporation losses that occur every year.

The priority date for right 22-10762 from Woods Creek is 1970. This right is generally out of priority in WD01 administration most times and often most years. The maximum diversion rate authorized for diversion to storage from this right is 0.3 CFS, or about 0.6 AF/day. Right 22-10762 needs to be in priority and delivered at the full authorized rate for 22 days per year to deliver adequate evaporation water for the ponds.

The diversion from Woods Creek is the "Mortensen" Diversion. Four other senior rights share this diversion, and the diversion ditches run through the Ferrarone Ponds en-route to satisfy these downstream rights. These four downstream rights have priority dates from 1887-1899. In practice, there is no way to curtail evaporation losses from the ponds when right 22-10762 is out of priority, meaning the ponds may cause injury to these senior rights or enlarge the existing groundwater right 22-14345 when out of priority.

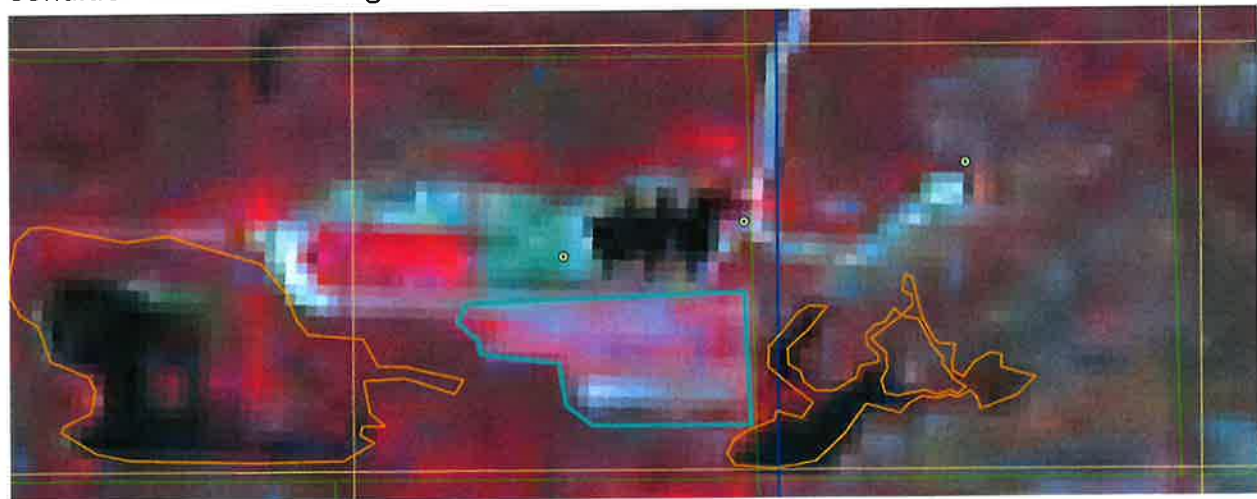
2009 Imagery (current pond perimeter in purple). Ponds authorized by 22-10762



2023 Imagery- current pond perimeter



2019- Mitigation By non-use of right 22-14345. Likely cultivated dryland alfalfa. It is difficult to determine irrigated crops vs dryland crops vs natural wetland vegetation in this area. The groundwater well was not yet drilled until 2020, so non-use as required by the permit conditions occurred during the 2019 season.





☉ 226°SW (T) ● 43.717576°N, 111.166728°W ±19ft



☉ 72°E (T) ● 43.716149°N, 111.161528°W ±29ft



Have conditions of permit approval been met?   X   Yes        No

## H. RECOMMENDATIONS

### 1. Recommended Amounts

| Beneficial Use   | Period of Use  | Rate of Diversion | Annual Volume |
|------------------|----------------|-------------------|---------------|
| WILDLIFE STORAGE | 01/01 to 12/31 |                   | 16.5          |

Totals:

16.5 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 Christian Stewart, IDWR Water Resource Agent

Field Examiner's Signature Christian J Stewart

Date 5/27/25

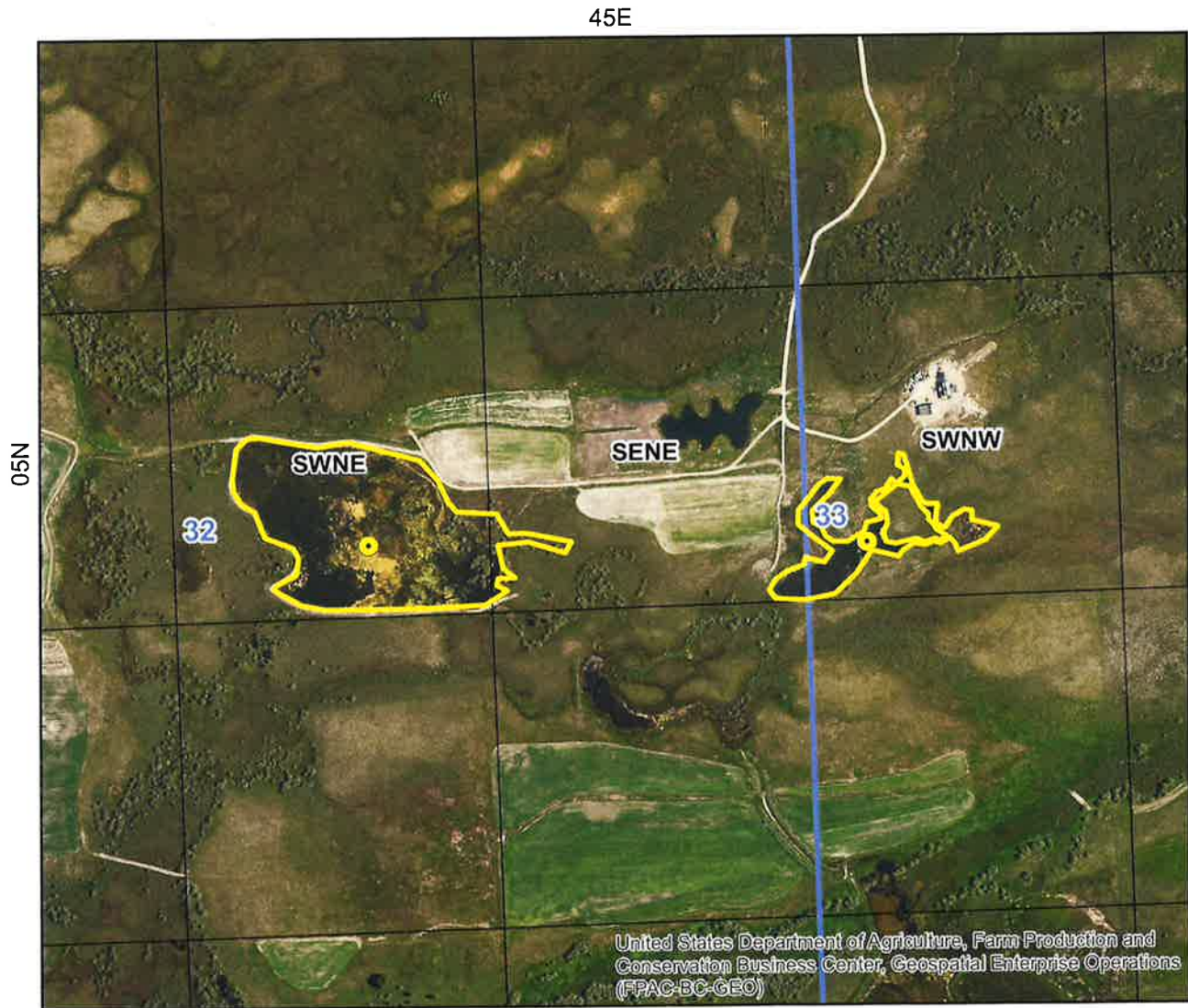
State of Idaho  
Department of Water Resources

# Water Right

22-14344

Ferrarone Family Living Trust

May 27, 2025



0 0.075 0.15 0.3 Miles

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

