

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 37-22847  
Exam Date: 05/30/2019

1. Current Owner:  
TOM R NORRIS 2521 BROADWAY ST SAN FRANCISCO CA 94115-1113
2. Accompanied by: Zachary Latham  
Phone No: (208) 736-8543  
Address: Brockway Engineering, PLLC 2016 Washington St. North, Suite 4 Twin Falls, ID 83301  
Relationship to permit Holder: Representative

**3. SOURCE:**  
GROUND WATER

Method of Determination: On-Site Inspection

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: **None**

Comments: The existing domestic well does not have a water right associated with it.

2. Other water rights with the same point-of-diversion: **None**

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**  
GROUND WATER NE¼ SE¼, Sec. 7, Twp 03N, Rge 18E, B.M. BLAINE County

Method of Determination: **On-Site Inspection**

**PLACE OF USE: DOMESTIC**

| Twp | Rng | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 03N | 18E | 7   |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |        |

Method of Determination: **On-site inspection**

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

**D. FLOW MEASUREMENTS**

1. Measurements: No measurement taken per IDAPA Rule 37.03.02 (Rule 35) Beneficial Use Rules dated 03/29/2012.

**E. FLOW CALCULATIONS**

Measured Method: No measurement taken per IDAPA Rule 37.03.02 (Rule 35) Beneficial Use Rules dated 03/29/2012.

**F. NARRATIVE/REMARKS/COMMENTS**

On May 30, 2019 Corey Skinner and I performed a field exam for Water Permit 37-22847 on property located at 104 West Channel Lane (Lot 2B) in the Little Makawao Subdivision. The property is located northeast of the Highway 75 and East Fork Road intersection approximately 5.2 miles south and 0.8 miles east of the center of Ketchum.

The application for permit proposes to divert 0.04 cfs and 13,000 gallons per day for domestic use from an existing domestic well. The permit was filed and advertised for in-house domestic use and for the irrigation of no more than 0.44 acres. The permit proposes to mitigate evaporative losses associated with the enlargement of an existing aesthetic pond (37-8916) by drying up 0.06 acres of irrigation.

Zachary Latham, of Brockway Engineering, accompanied us during the field exam and showed us the point of diversion (POD), place of use (POU), the developed irrigation system, and the enlarged portion of the aesthetic pond that is associated with the mitigation component of the permit. The POD is an existing 6 inch diameter domestic well with a submersible pump. The POU is the home and landscaping. The irrigation system is a typical residential type that uses buried pipe and pop-up sprinklers.

Conditions of the permit have been met and I recommend licensing 0.04 cfs and 13,000 gallons per day along with the irrigation of up to 0.44 acres

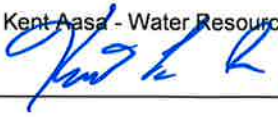
Have conditions of permit approval been met?   X   Yes        No

**G. RECOMMENDATIONS****1. Recommended Amounts**

| <u>Beneficial Use</u> | <u>Period of Use</u> | <u>Rate of Diversion</u> |  |
|-----------------------|----------------------|--------------------------|--|
| DOMESTIC              | 01/01 to 12/31       | 0.04 CFS                 |  |

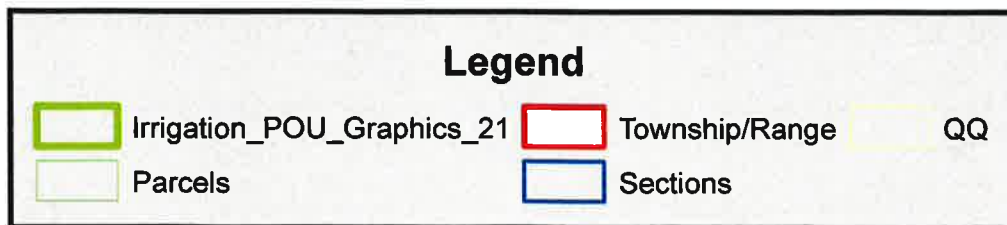
Totals: 0.04 CFS

**H. AUTHENTICATION** Kent Aasa - Water Resource Agent

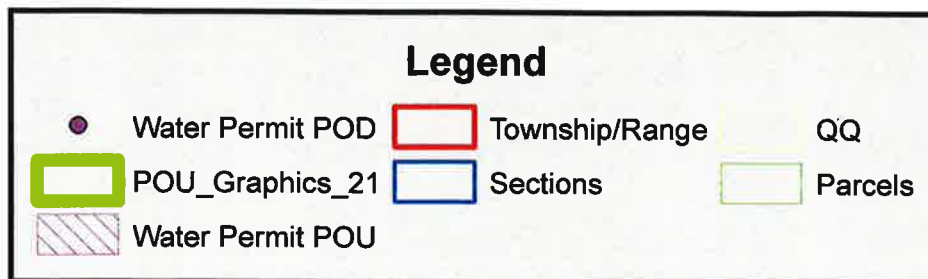
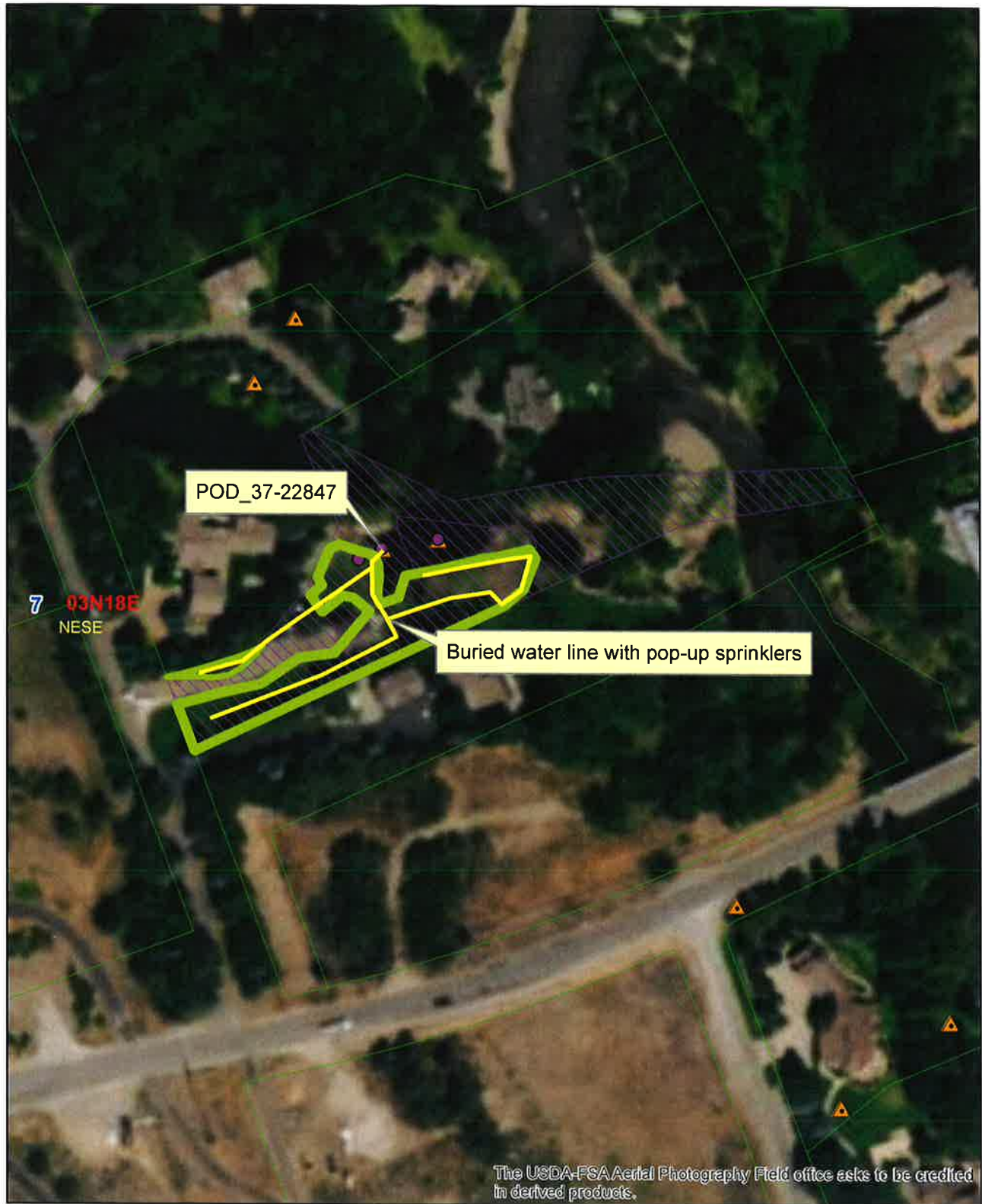
Field Examiner's Name  Date 07/03/2019

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

# 37-22847 Irrigation\_POU\_POD\_Field Exam



# 37-22847 System Diagram



## 37-22847 Domestic POD & POU



University of Idaho ET IDAHO 2017 Pdef  
Mitigation calculations

Annual evaporation from shallow open water

$$P_{def}(2017) = 364 \text{ mm/year}$$

$$\text{Pond Area} = .09 \text{ acres}$$

$$364 / 304.8 = 1.19$$

$$1.19 \times .09 = .107 \text{ or } .11 \text{ AFA}$$

$$P_{def}(2017) \text{ for Turf} = 573 \text{ mm/year}$$

$$573 / 304.8 = 1.879 \text{ or } 1.88 \text{ AFA}$$

Mitigation is from domestic 37-22847 (.5 acre irrigation)

$$1.88 \text{ AFA} \times .5 \text{ acres} = 0.94 \text{ AF}$$

$$.11 / .94 = 11.7 \% \rightarrow 11.7 \% = .117$$

$$.117 \times .5 = .0585 \rightarrow .06 \text{ acres}$$

\* .06 acres of irrigation from 37-22847 are used to mitigate evaporative losses for 37-8916