

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 83-11979
Exam Date: 06/14/2021

1. Current Owner:
JERRY ONEILL 221 7TH AVE S KIRKLAND WA 98033 AND/OR
SUSAN ONEILL 221 7TH AVE S KIRKLAND WA 98033
2. Accompanied by: Jerry Oneill
Phone No: 206-419-9324
Address: Same as above
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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

SPRING SW¼ NE¼ SE¼, Sec. 29, Twp 38N, Rge 02E, B.M. CLEARWATER County

Method of Determination: GPS. POD is a perforated pvc pipe in ground to tank located at -116°13.4777, 46°36.3599.

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	
38N	02E	29													X				

Method of Determination: Field exam and Arcmap aerial imagery.

3.
 - X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 - X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 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
SPRING					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GAL BUCKET MEASUREMENT						

2. Measurements: A 5 gallon bucket test was completed from an in-line hose bib valve located at the water transfer pump output ¾ inch poly pipe, resulting in a flow rate of 5 gal / 63.25 sec x 60 sec/min = 4.7 gpm = **0.01 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5 Gallon bucket test = (5 gal / 63.25 sec) x 60 sec/min = 4.7 gpm = 0.01 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Domestic use for 1 home and watering of small plants = **0.6 af**

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/14/2021 with the applicant, Jerry O'Neill, showed water being diverted from a spring source for domestic use. At the POD, the applicant has installed a buried 4 inch perforated PVC pipe in a side hill, which captures spring water and routes it to a small temporary storage tank. Situated approximately 10 feet above the tank, the water system incorporates a small Honda generator driven water transfer pump. From the pump, approx. 400 feet of ¾ inch poly pipe is routed up hill to a 1,500 gallon storage tank, which then uses gravity flow to the home for domestic use. A 5 gallon bucket test was completed from an in-line hose bib valve located at the water transfer pump's output ¾ inch poly pipe, resulting in a flow rate of 5 gal / 63.25 sec x 60 sec/min = 4.7 gpm = **0.01 cfs**, considering department rounding standards which is recommended as the maximum diversion rate for licensing purposes.

The domestic POU was toured during the field exam, and consists of a small two story cabin that was custom built. During licensing review, Arcmap aerial imagery was used to trace out the Domestic POU shape. Gravity fed water from the storage tank is used by the applicant's for in home use, in addition to a very small amount of watering for potted plants exterior of the home. During the exam, Mr. O'Neill asserted their annual use is limited by the spring capacity during the seasonal times they reside at the cabin. Normal operation of the water system includes applicant's arriving on site, and manually starting the pump to divert water from the initially full temporary storage tank to the larger tank co-located with the house for use. The pump is then shut off to await the temporary tank to refill, and the cycle begins again. Mr. O'Neill stated the house is not used as a full time residence, primarily due to road conditions from late fall to early spring. Mr. O'Neill stated that in the future more time will be spent at the property as retirement life ensues.

Due to the seasonal use by the applicant's at the property, coupled with the limiting low flow spring performance and water system installed, it is reasonable to believe the applicant's do not exceed the Department's standard for in-home domestic use. The annual volume and maximum diversion volume recommended for licensing this permit equals **0.6 af**. While not recommending the full volume for 1 home and up to ½ acre irrigation, the applicants do water some potted plants throughout the summer, and the conditions for domestic use 1 home and ½ acre irrigation occurring under domestic use shall remain on the license.

Condition 029 was removed from the permit during licensing review. Condition 239 was replaced with X01, as water is service connected to the home for domestic use. All other conditions on the permit shall 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>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.01 CFS	0.6 AF
<u>Totals:</u>		0.01 CFS	0.6 AF

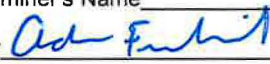
2. Recommended Amendments

☐ 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

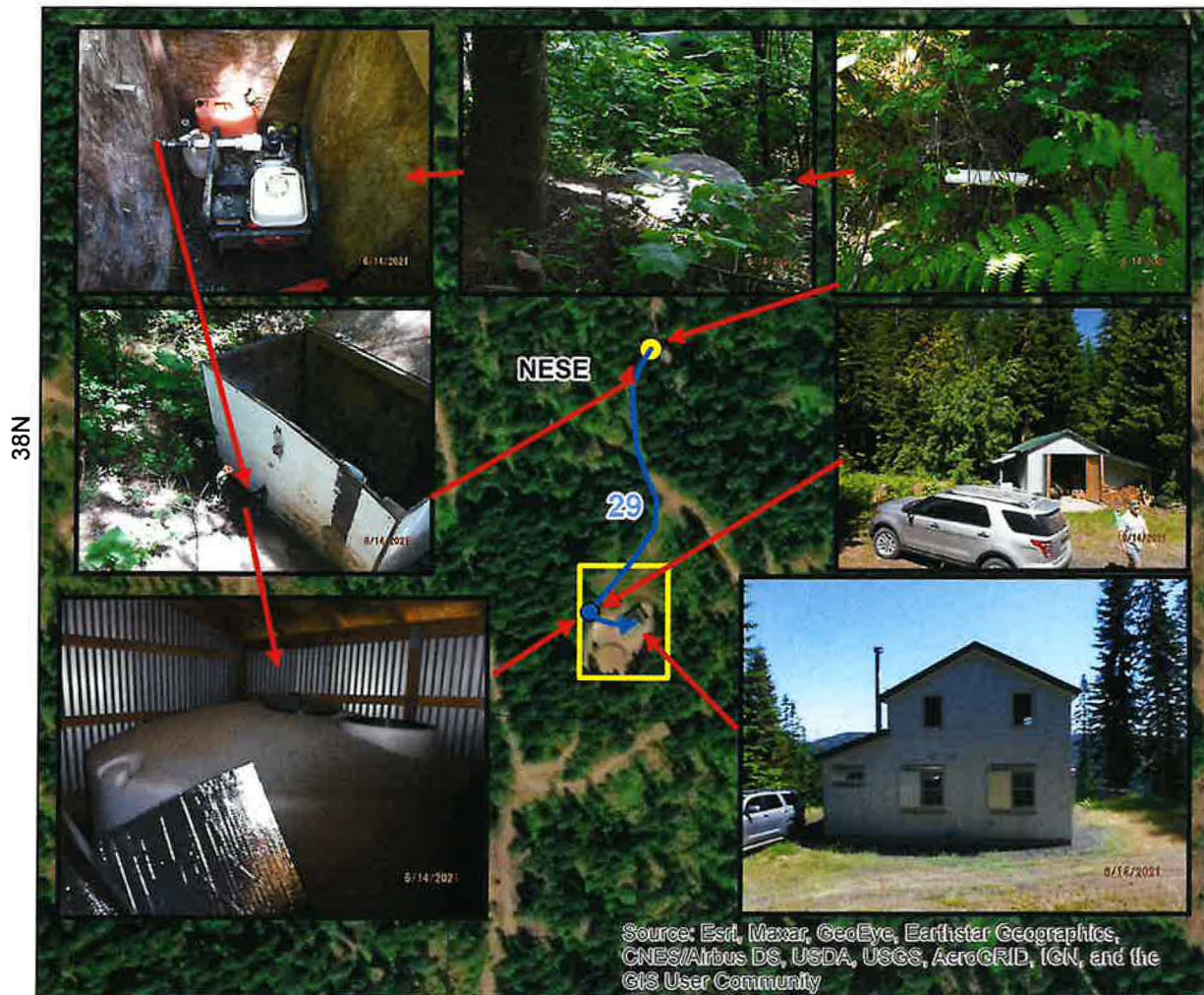
Field Examiner's Name  Date 8/20/2021

Reviewer  Date 11/18/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
83-11979

DOMESTIC system diagram.

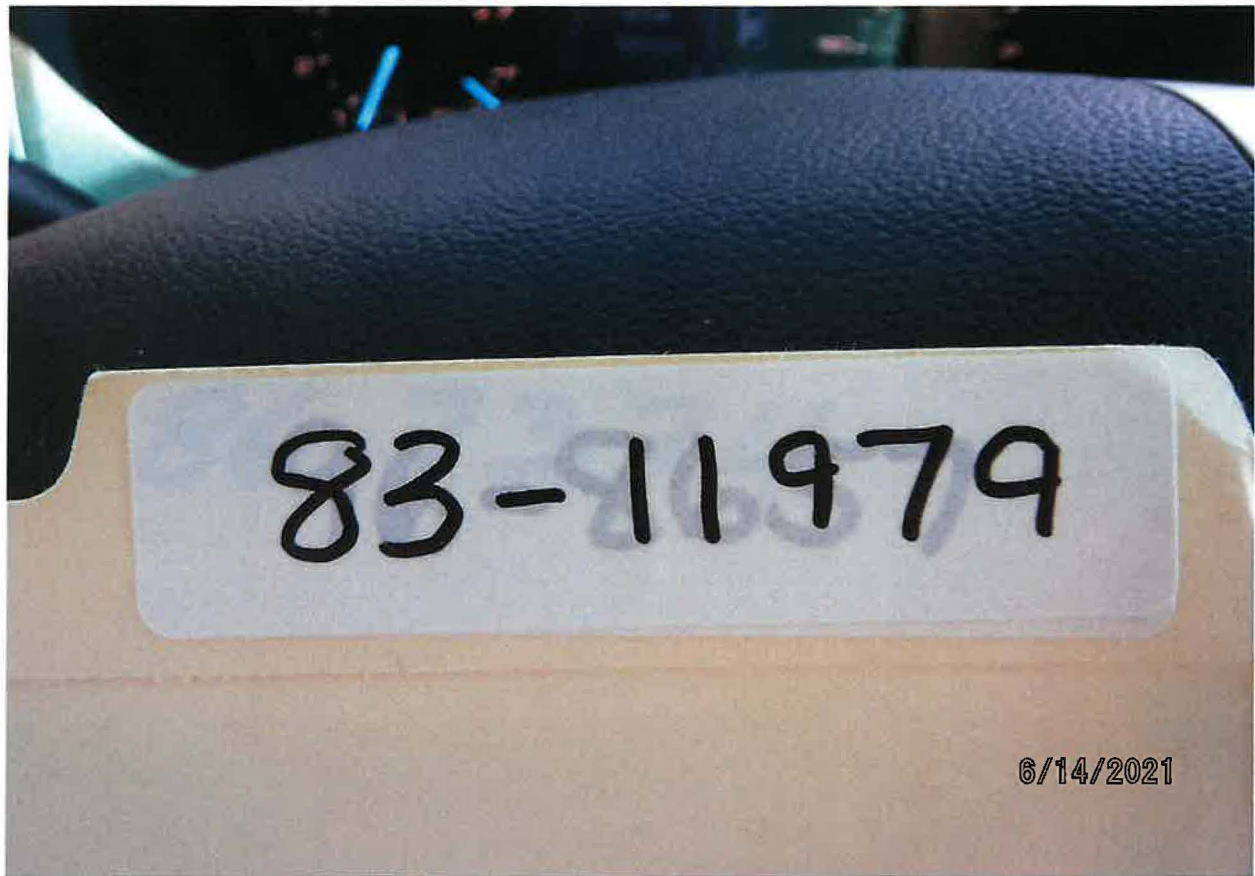
02E



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

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 6/14/2021



POD – BURIED 4 INCH PERFORATED PVC PIPE CAPTURES SPRING WATER – EXPOSED PORTION IS FROM BANK GIVING WAY AROUND THAT PART OF THE PIPE



POD – SPRING SOURCE – STORAGE TANK CAPTURES WATER FROM A BURIED PERFORATED PIPE



PARTIALLY BURIED STORAGE TANK COLLECTS SPRING WATER PRIOR TO PUMPING TO POU



PUMP ENCLOSURE, HOUSES SMALL WATER TRANSFER PUMP





HONDA GX160 WATER TRANSFER PUMP – PUMPS WATER FROM POD STORAGE TANK UPHILL TO POU
VIA ¾ INCH POLY PIPE



SMALL SHED – HOUSES STORAGE TANK CO-LOCATED WITH HOUSE FOR DOMESTIC WATER USE



1,500 GALLON STORAGE TANK IN SMALL SHED CO-LOCATED WITH HOME



DOMESTIC POU – 1 HOME WITH SMALL SCALE IRRIGATION <1/2 ACRE