

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23351

Exam Date: 8/3/2012

1. Current Owner: JEFFRY & KRIS STODDARD LIVING TRUST
28281 CROWN VALLEY PARKWAY
LAGUNA NIGUEL CA 92677
(949)582-4001
2. Accompanied by: Andrew Laidlaw
Phone No: (208) 634-5707
Address: McCall Design & Planning, Inc., P.O. Box 729, McCall, ID 83638
Relationship to Permit Holder: Agent/Representative

3. SOURCE

PAYETTE LAKE

TRIBUTARY

NORTH FORK PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

PAYETTE LAKE L4 SW1/4SW1/4 Sec. 5, Twp 18N, Rge 03E, B.M.
VALLEY County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
18N	03E	5											2.3						2.3
18N	03E	6															0.4		0.4
L 4																			

Total Acres: 2.7

Method of Determination: Arc Map (Aerial Photo)

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
N/A	Unknown	2		Unknown	Unknown

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements: No field measurement. Pitot tube was too small for sprinkler head nozzles.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical)

$$Q = 8.8 \times 0.7 \times 2/30 + (2.31 \times 50) = 12.32/145.5 = 0.09 \text{ cfs}$$

$$Q(\text{pipe}) = VA = 5 \text{ ft/sec} \times 0.022 \text{ ft}^2 = 0.11 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.09 \text{ cfs} > 0.08 \text{ cfs } Q(\text{permit})$$

$$Q(\text{pipe capacity}) = 0.11 \text{ cfs} > 0.08 \text{ cfs } Q(\text{permit})$$

$$HP = 2$$

$$Z = 30' \text{ (Assumed)}$$

$$P = 50 \text{ psi (Assumed)}$$

$$A(\text{pipe}) = 0.022 \text{ ft}^2$$

$$V = 5 \text{ ft/sec (Assumed)}$$

Appears pumping system can attain the permit diversion rate of 0.08 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.7 \times 3.0 = 8.1 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 200 \times 1.9835 = 31.7 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 8.1 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 2 hp submersible pump, located approximately 250 – 300 feet from the shoreline of Payette Lake, provides water to the right holder for irrigation of lawn and landscaping. The size of the pump supply line to the parcel is unknown. Therefore, based on the size of the pump (2 hp), and the length of the supply line to the crawl space of the home (475' – 500'), it is assumed that the irrigation supply line is 2" PVC. Likewise, the theoretical flow calculation for the 2" PVC pipe is approximately the same as the theoretical pump calculation.

IRRIGATION SYSTEM:

The pressurized irrigation system irrigates approximately 2.7 acres of lawn and landscaping within the right holders property. The irrigation system is comprised of a variety of pop-up and rotary sprinkler heads.

Have conditions of permit approval been met? ☒ Yes ☐ No

CONDITION NO.4 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device that will provide the watermaster suitable control of the diversion. The right holder has installed a lockable device on the isolation valve located on the irrigation discharge line. The lockable device consists of a lockable valve stem.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.08	&/or	N/A
Beneficial Use Limit	0.08	&/or	N/A
System Measurement	0.09	&/or	N/A
Proof Fee Amount	0.20	&/or	20.0
Recommended Amount	0.08	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/15 to 10/31	0.080 CFS	8.1 AFA
<u>Totals:</u>		0.080 CFS	8.1 AFA

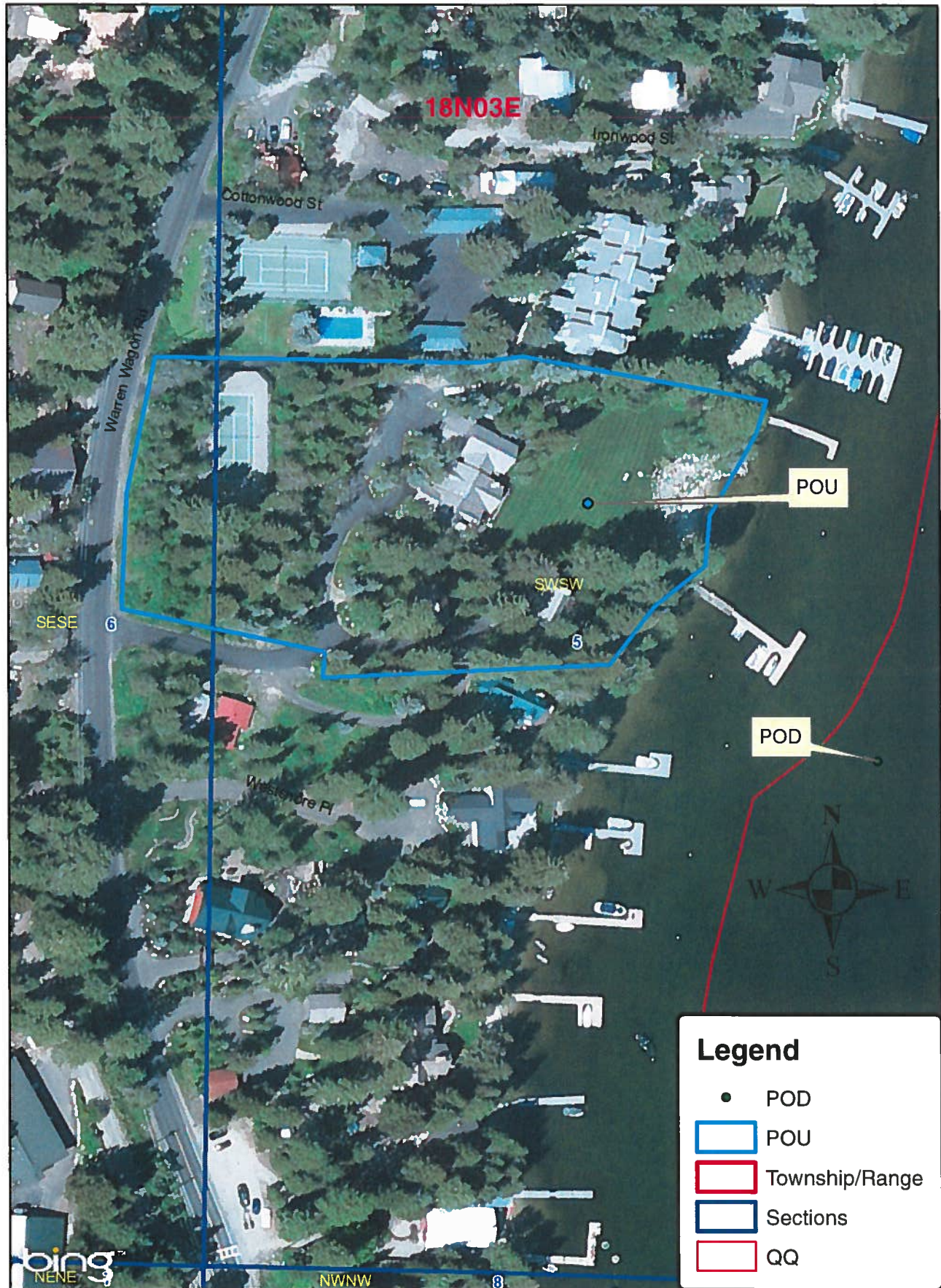
2. Recommended Amendments

☐ 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 ☐ Other

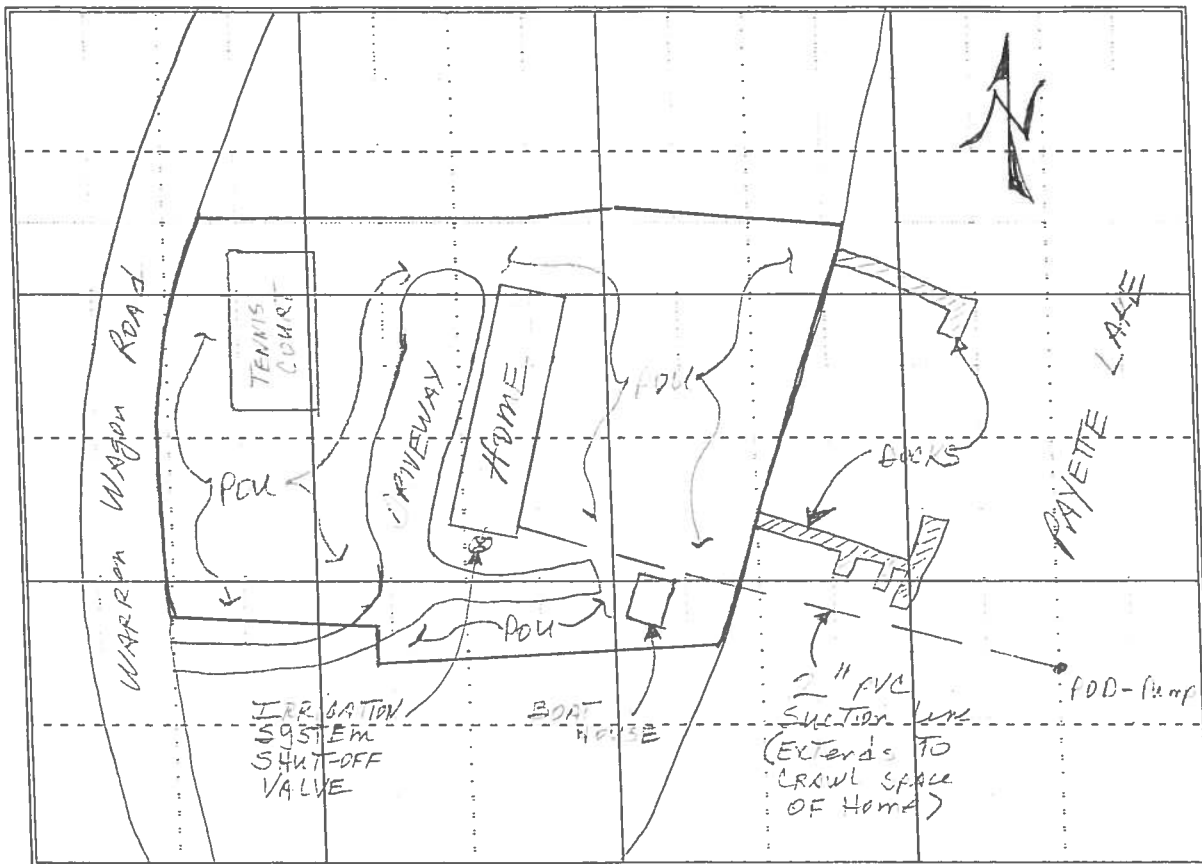
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 11/5/12
 Reviewer _____ Date _____

65-23351
Gov't. Lot 4



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = 1/TS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

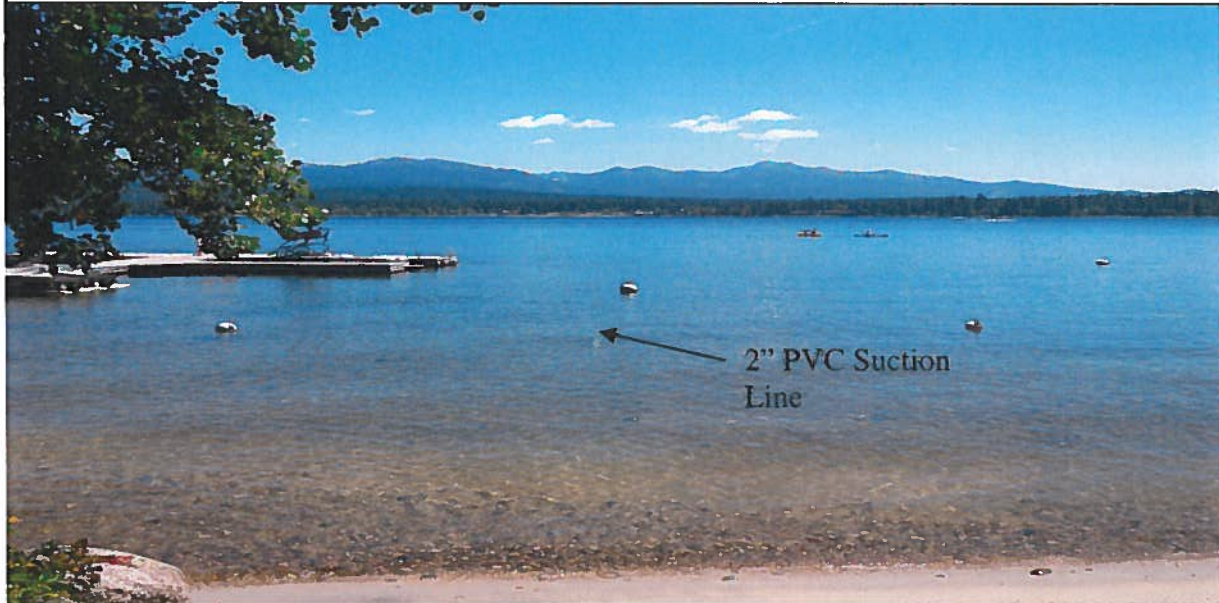
Water Right Permit: 65-23351

Field Exam Date: 8-3-12

PLS: SW1/4, SW1/4 Section 5, T.18N, R.03E

PLS: SW1/4, SE1/4 Section 6, T.18N, R.03E

Field Examiner: RC



Point of Diversion: View easterly of Payette Lake. A 1 hp Grundfos pump, located approximately 250 – 300' from the lake shore, diverts water through a 1 ¼" PVC suction line to a pressurized irrigation system which waters lawn, landscaping, and natural vegetation.



Place of Use: View northwesterly of lawn and landscaping adjacent to lake shore.



Place of Use: View southwesterly of typical irrigation riser with rotary head to irrigate the natural vegetation and landscaping.