

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22880

Exam Date: 8/31/2012

1. Current Owner: TERRY L GUSTAVEL
5532 RANDOLPH DR
BOISE ID 83705
(208)375-7338
2. Accompanied by: Terry Gustavel
Phone No: Same
Address: Same
Relationship to Permit Holder:

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 SW1/4NW1/4

Sec. 2, Twp 18N, Rge 03E, B.M.

VALLEY County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Tw	Rge	Sec	NE				NW				SW				SE				Totals
18N	03E	2	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
									.1										.1
									L 4										

Total Acres: 0.1

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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	1/2		Gould	(1")

*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. Unable to obtain a system pressure measurement with the Pitot Tube. Pitot Tube nipple would not fit into sprinkler head nozzle.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 0.5/15 + (2.31 \times 40) = 3.08/107.4 = 0.03 \text{ cfs}$$

$$Q(1" \text{ pipe capacity}) = 0.03 \text{ cfs (IDWR Expected Flows for Pipe Diameters)}$$

$$Q(\text{theoretical}) = 0.03 \text{ cfs} = 0.03 \text{ cfs } Q(\text{pipe capacity}) > 0.02 \text{ cfs } Q(\text{permit})$$

$$HP = \frac{1}{2}$$

$$P = 40 \text{ psi (Assumed)}$$

$$Z = 15' \text{ (Estimated)}$$

Appears that the current pumping system is capable of attaining the permit diversion rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.1 \times 3 = 0.3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 200 \times 1.9835 = 7.9 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.3 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

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

A ½ hp pump, which is attached to the side of the right holder's dock, diverts water from Payette Lake for irrigation of approximately 0.10 acres of lawn and landscaping on the right holder's parcel, Lot 4, Shady Beach Subdivision. Approximately 150 lineal feet of 1" polypipe, which is attached to the dock, conveys water to the right holder's irrigation system.

IRRIGATION SYSTEM:

The right holder's pressurized irrigation system is comprised of nine (9) stations. The stations contain a mixture of pop-up sprinklers and drip lines.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.02	&/or	N/A
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.03	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.02	&/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	0.020 CFS	0.3 AFA
<u>Totals:</u>		0.020 CFS	0.3 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

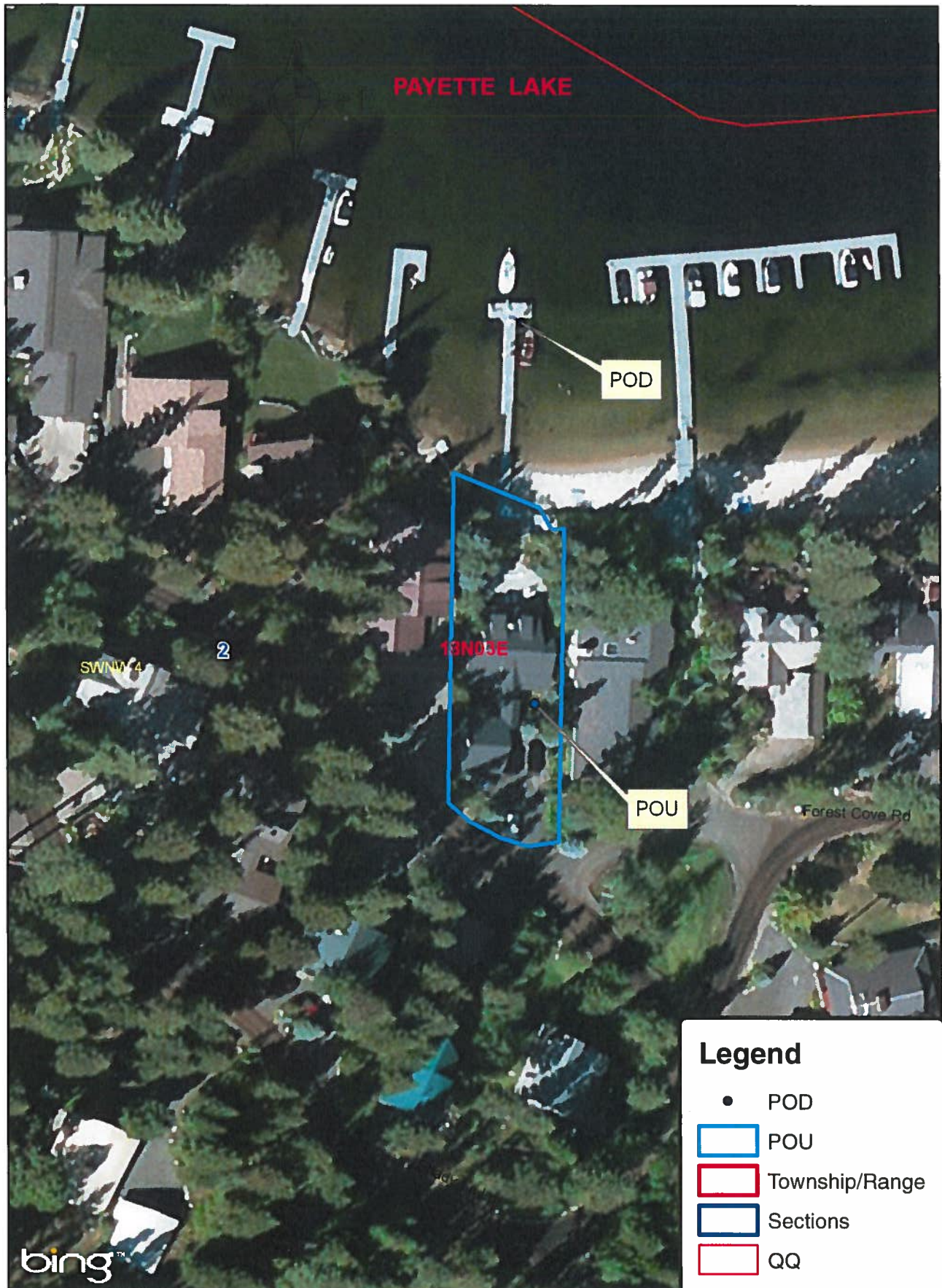
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 1/31/13

Reviewer _____ Date _____

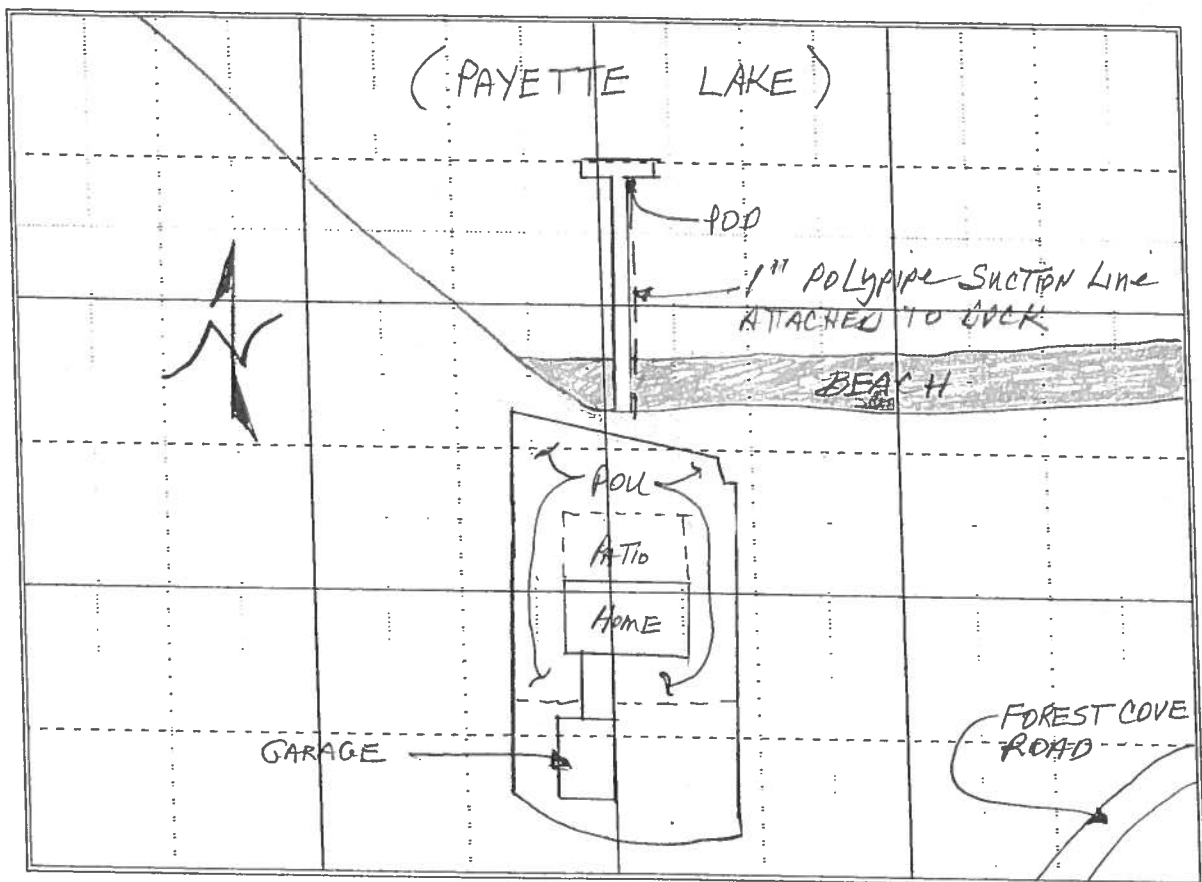
65-22880
GOV'T. LOT 4

BING AERIAL PHOTO - 2011



0 25 50 100 150 200
Feet

- 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" = NTS

- ☐ 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

U.S. DEPARTMENT OF THE INTERIOR

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FIELD EXAM PHOTOS

Water Right Permit: 65-22880

Field Exam Date: 8-31-12

PLS: SW1/4, NW1/4 Section 2, T.18N, R.03E.

Field Examiner: RC



Point of Diversion: View of pump and 1" suction line attached to the right holder's dock. Pump and electrical wiring are covered by a removable section of the dock.



Place of Use: View southerly from the pump location on the dock. Approximately 150' of 1" polypipe, which is attached to the dock, conveys water to the right holder's property for irrigation of the lawn and landscaping surrounding the home.



Place of Use: View northeasterly of the pop-up sprinkler irrigation system and the typical lawn and landscaping located within the right holders parcel.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 8, 2012

Terry L. Gustavel
5532 Randolph Drive
Boise, ID 83705

RE: Scheduling Field Exam for Water Right Permit No. 65-22880

Dear Mr. Gustavel:

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.02 cfs of surface water from Payette Lake for irrigation of 0.3 acres within Lot 4, Shady Beach Subdivision.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 17, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.