

[illegible]

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	N/A			N/A	2"

*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>
5-Gallon Bucket						
Pitot Tube						

2. Measurements: 5-Gallon bucket. Measured flow of approximately 22 gpm (0.05 cfs). Pitot tube pressure measurement of sprinkler nozzles of 16 psi.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: (Continuity Equation – Pipes)

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

$$Q(\text{measured}) = 0.05 \text{ cfs (5-gallon bucket)}$$

$$Q(\text{theoretical}) = 0.11 \text{ cfs} > 0.05 \text{ cfs } Q(\text{measured}) > 0.04 \text{ cfs } Q(\text{permit})$$

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

$$A = 0.022 \text{ ft}^2$$

Appears that the current water supply system can attain the permit diversion rate of 0.04 cfs. Recommend the permit diversion rate of 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: N/A

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

The right holder's have placed a section of 2" PVC pipe in Eddy Creek to divert water for irrigation of their lawn, landscaping, and gardens. Water is conveyed through approximately 650 lineal feet of 2" PVC pipe to serve Lots 42 and 1, Block 2, of the Garden Valley Summer Home Sites. A valved 'tee' assembly controls flow to irrigate the lots or to discharge back to Eddy Creek when the right holder's are not irrigating. Water is discharged through 1 1/4" PVC pipe to several irrigation risers located throughout the right holder's property.

IRRIGATION SYSTEM:

The right holder's irrigate with hoses and rotary sprinklers. A maximum of three (3) sprinklers operate at one time. The sprinklers have 3/16" nozzles, and operate at an approximate pressure of 16 psi.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 65-13981 does not overlap with other water rights at the point of diversion.

Place of Use: Water Right Permit No. 65-13981 and Garden Valley Summer Home Sites Water Rights 65-12998 and 65-12999 have an overlapping domestic place of use.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.04	&/or	N/A
System Measurement	0.05	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/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>
DOMESTIC	01/01 to 12/31	0.040 CFS	N/A
<u>Totals:</u>		0.040 CFS	N/A

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 9/30/13
 Reviewer _____ Date _____

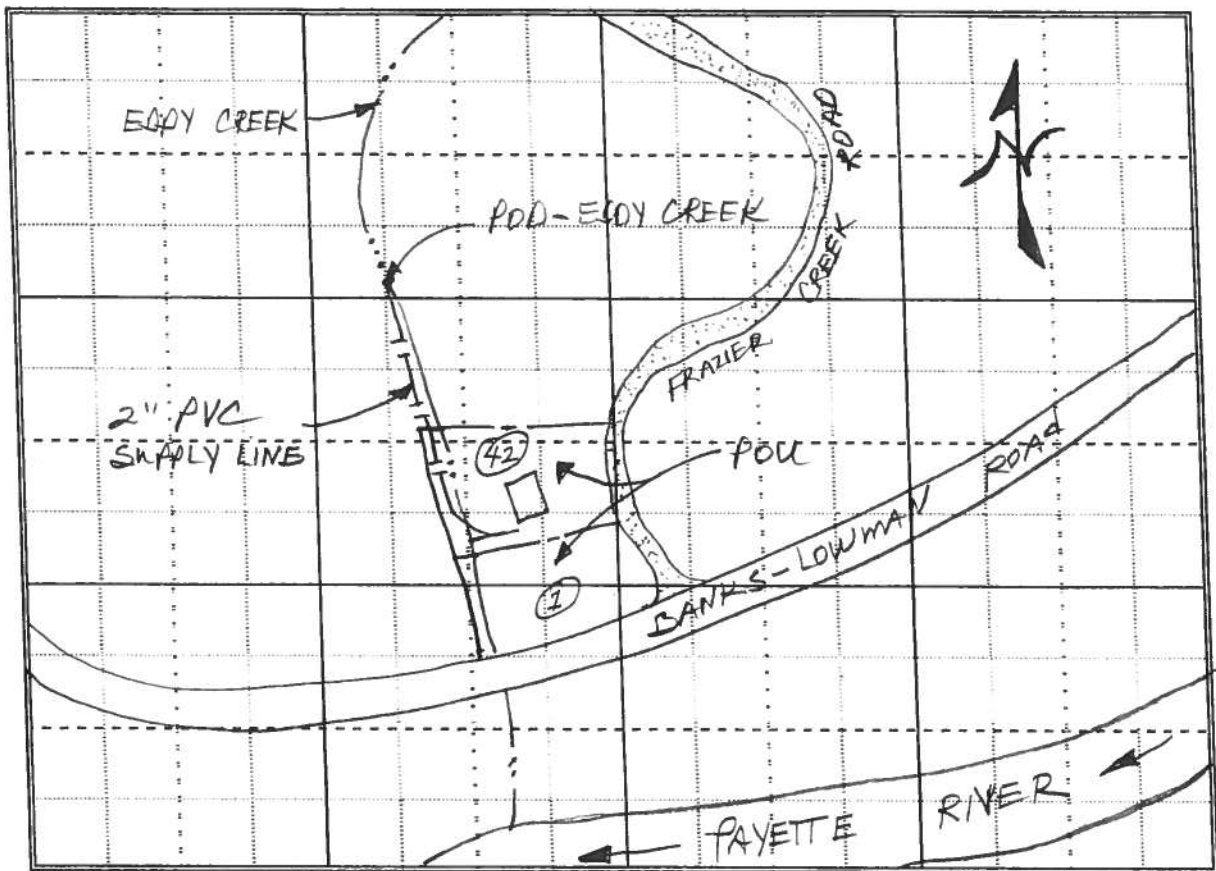
65-13981
GOV'T. LOT 1

ESRI AERIAL PHOTO - 2012



0 65 130 260 390 520
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

FIELD EXAM PHOTOS

Water Right Permit: 65-13981

Field Exam Date: 5-31-13

PLS: NW1/4, NE1/4 Section 30, T.9N, R.04E.

Field Examiner: RC



Point of Diversion: View northerly of 2" PVC supply pipe in Eddy Creek. The supply pipe is located within and adjacent to Eddy Creek to the right holder's place of use within Lots 1 and 42, Block 2, of the Garden Valley Summer Home Sites.



View southerly of the 2" PVC supply line and the bypass 'tee' assembly to discharge to the right holder's place of use or return flow back to Eddy Creek.



Place of Use: View northwesterly of the home, lawn, landscaping, and gardens.



Place of Use: View southwesterly of lawn, landscaping, and gardens southerly of the home and adjacent to Eddy Creek.

MEMORANDUM

Date: October 01, 2013
To: Water Right File 65-13981
From: kwalker *kw*
Re: Place of use

Examiner recommended we add a portion of tax lot in (GL1) NENE to place of use. This area of tax lot is not part of their domestic place of use so in talking with examiner we decided not to include it so permit does not need amended. I have updated the shape to remove land in (GL1) NENE.



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

May 15, 2013

Patrick & Terri Greeson
6 Frazier Creek Road
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-13981

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 27, 2013**. 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 0.04 cfs of surface water from Eddy Creek for domestic use.

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 May 24, 2013, to conduct the exam during the week of May 27, 2013.** 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.