

[illegible]

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01W	10						X											

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	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>
N/A						

2. Measurements: No field measurement. Unable to place 5-gallon bucket in water trough, and only partial flow being diverted to the water trough. Remaining water being diverted to two sprinklers irrigating a pasture area.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Continuity Equation – Pipes)

$$V = 1.49/nR^{2/3}S^{1/2} = 1.49/0.011(0.042)^{2/3}(0.14)^{1/2} = (135.5)(0.12)(0.37) = 6.0 \text{ ft/sec}$$

$$Q = VA = 6 \text{ ft/sec} \times 0.022 \text{ ft}^2 = 0.13 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.13 \text{ cfs} > 0.02 \text{ cfs } Q(\text{permit})$$

Assuming Full Pipe

$$S = 120/850 = 0.14\%$$

$$R = D/4 = 0.167/4 = 0.042$$

$$n = 0.011$$

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

Appears that the current spring and water conveyance system can attain the permit diversion rate of 0.02 cfs.

Recommend the permit diversion rate of 0.02 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: (Two (2) Storage Ponds)

Storage Pond No.1:

Surface Area – 0.20 ac.

Maximum Pond Depth – 8 feet

$$V = 0.20 \text{ ac} \times 8 \text{ feet} = 1.6 \text{ AF} \sim 2.0 \text{ AF}$$

Storage Pond No.2:

Surface Area – 0.15 ac.

Maximum Pond Depth – 12 feet

$$V = 0.15 \text{ ac} \times 12 \text{ feet} = 1.8 \text{ AF} \sim 2.0 \text{ AF}$$

$$V = 2.0 \text{ AF} + 2.0 \text{ AF} = 4.0 \text{ AF}$$

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

Two springs and an unnamed stream supply water to two (2) stock water, wildlife, and aesthetic storage ponds.

The upper storage pond, Storage Pond No.1, is filled by a spring located northerly of the right holder's property. Spring water is conveyed through approximately 3,000 lineal feet of 2" and 1 ½" PVC pipe to a 'tee' assembly near a frost free hydrant. The frost free hydrant discharges water to a stock water trough which serves two horses. The stock water trough overflow discharges to Storage Pond No.1. This same water supply system supplies irrigation water for pasture land and a domestic use for one home.

The lower storage pond, Storage Pond No.2, is filled by a spring located near and upgrade of the storage pond. A second source of water for the storage pond is an unnamed stream which parallels Butte Road. The unnamed stream discharges to the easterly end of the storage pond. The unnamed stream collects and diverts snow melt, storm water runoff, and waste water generated by irrigation of properties upgrade of the right holder's property.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 65-22995 and Water Right 65-115 divert water from the same spring.
Place of Use: No place of use overlaps exist for Water Right Permit No. 65-22995.

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	5.40
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.13	&/or	~~4.0~~ 5.40
Proof Fee Amount	0.20	&/or	20.0
Recommended Amount	0.02	&/or	~~4.0~~ 5.40

RC 9/30/13

RC 9/30/13

RC 9/30/13

Evaporation & Seepage Losses Calculation:

Pond Area (Surface) ~ 0.40 AC.

$$V = 0.4 \text{ AC} \times 3.5 \text{ AFA} = 1.4 \text{ AFA}$$

$$V = 4.0 \text{ AFA} + 1.4 \text{ AFA} = \underline{5.4 \text{ AFA}}$$

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
DIVERSION TO STORAGE	01/01 to 12/31	0.020 CFS	
STOCKWATER STORAGE	01/01 to 12/31		5.40 ~~4.00~~ AF
WILDLIFE STORAGE	01/01 to 12/31		5.40 ~~4.00~~ AF
AESTHETIC STORAGE	01/01 to 12/31		5.40 ~~4.00~~ AF

RC 9/30/13

RC 9/30/13

RC 9/30/13

Totals: 0.020 CFS

~~4.00~~ AF

5.40 RC 9/30/13

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 9/19/13

Reviewer _____ Date _____

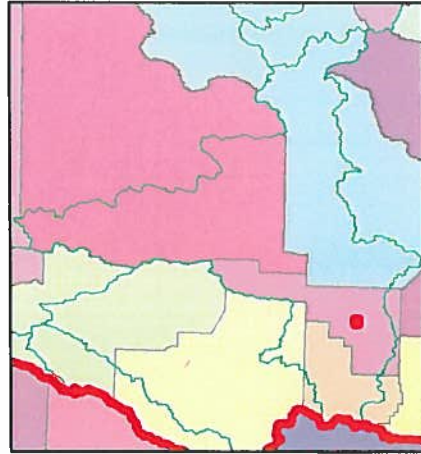
Allow 1.4 AFA of Storage Volume based on calculation and transfer memo # 26 - Consumptive Use for Ponds.

RC 9/30/13



(STOCKWATER STORAGE)

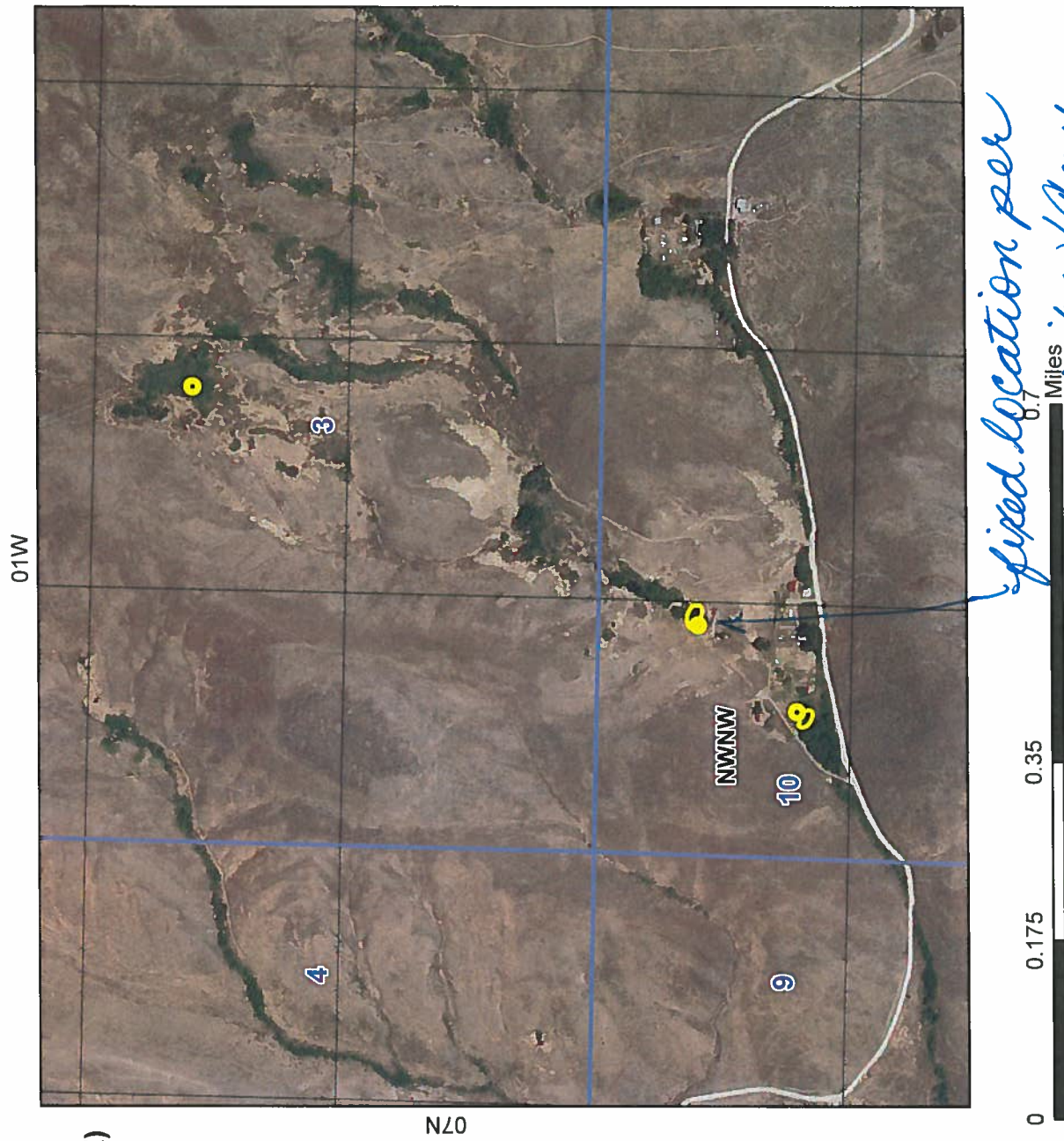
- Point of Diversion
 - Place of Use
 - State Outline
 - Townships
 - PLS Sections
 - Quarter Quarters



Gem County
IDWR Basin 65

Prepared by Walker, Kay

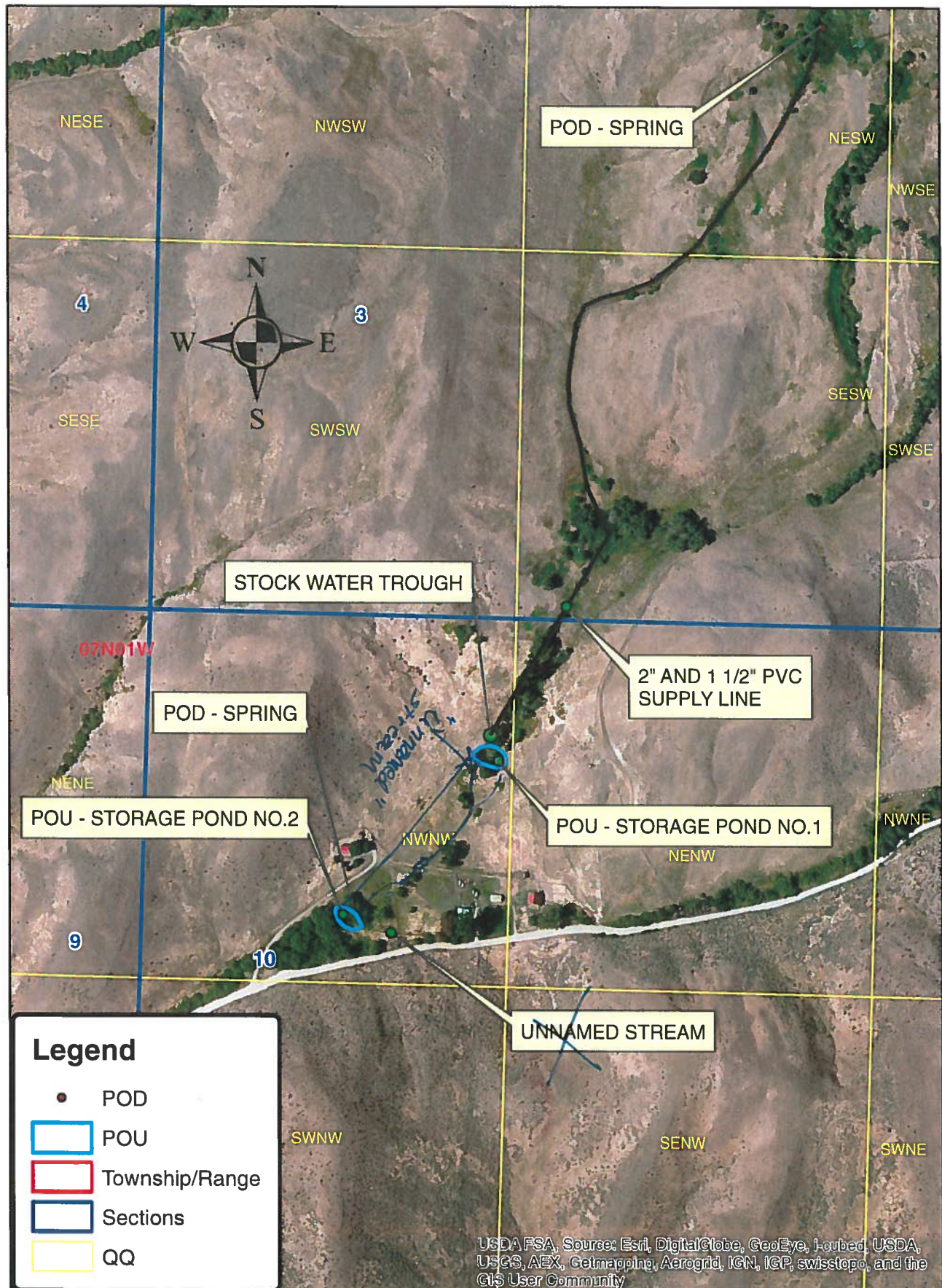
2009 Aerial Photography



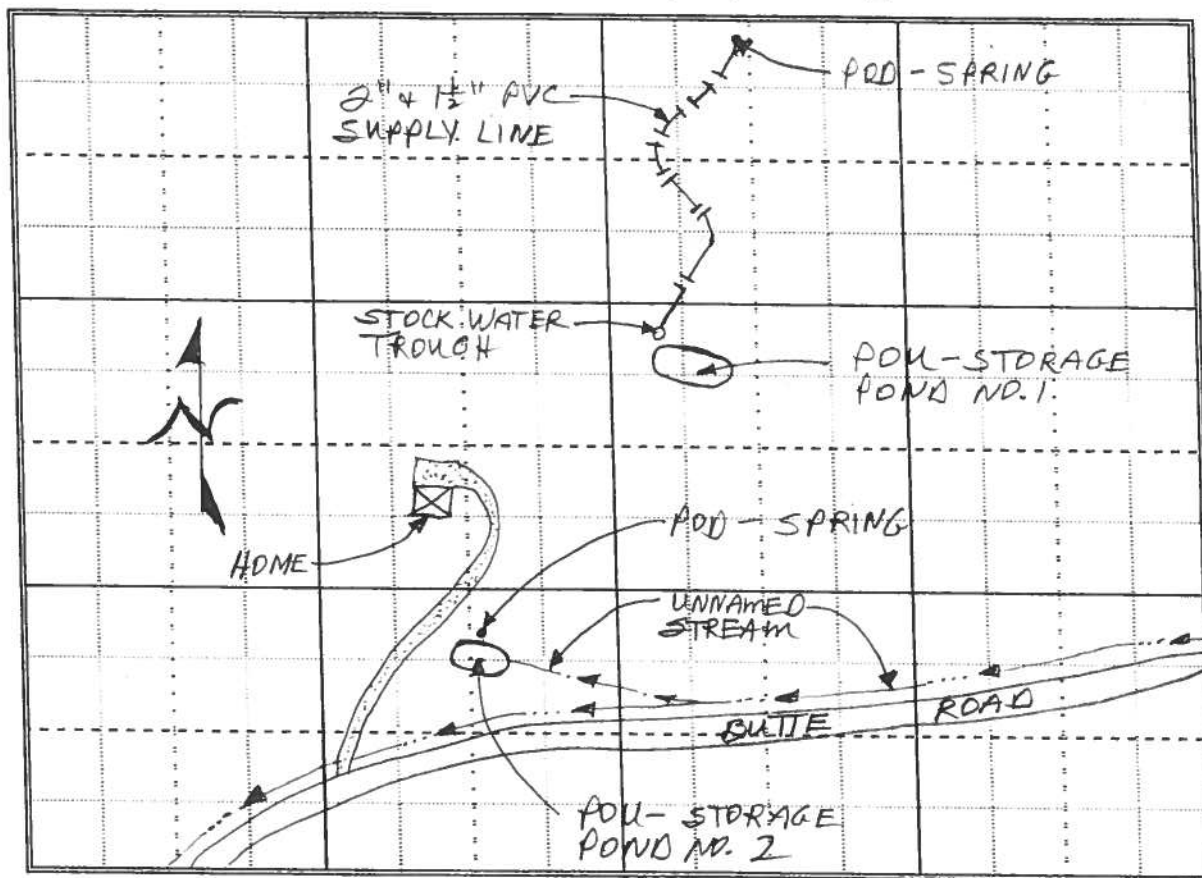
fixed location per
0.7 Miles
office visit w/ Amy
English 10/17/13 - kw

65-22995

ESRI AERIAL PHOTO - 2012



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: 65-22995

Field Exam Date: 5-20-13

PLS: NW1/4, NW1/4 Section 27, T.7N, R.01W.

Field Examiner: RC



Point of Diversion: View westerly of spring collection and discharge PVC piping located above Storage Pond No.1.



Place of Use: View southeasterly of a stock water trough which overflows into Storage Pond No.1.



Place of Use: View westerly of Storage Pond No.1, which is located upgrade and northerly of Storage Pond No.2.



Place of Use: View southeasterly of Storage Pond No.2.



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

October 1, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

AMY E ENGLISH
3421 BUTTE RD
EMMETT ID 83617

RE: Water Right Permit No. 65-22995

Dear Permit Holder:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

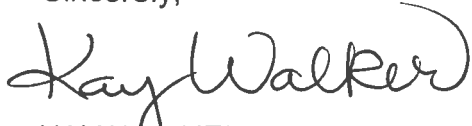
Based on the examiner's report, the points of diversion were developed differently than described on your permit. The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. We have also included a layout that shows the location of the springs, unnamed stream and ponds under this permit. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with a \$100.00 filing fee within 14 days.

Our examiner indicated that you have married since you acquired water rights and recommended we use your new name. However, please be advised that we must have some sort of document that shows you now have a different name and would like us to update your water rights. This document could be anything that shows you have taken a new name. If you want to change your name on this permit before it is licensed, complete the enclosed Assignment of Permit form and return it with your documentation. No fee is required to clarify your name. If you wish to add your husband's name to your water rights, we request that you submit a notice of change in ownership with each of your water right numbers listed. This process would require a \$25.00 filing fee for each water right that you wish to change.

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If you have any questions, please feel free to contact me at (208)334-2190.

Sincerely,

A handwritten signature in black ink that reads "Kay Walker". The signature is fluid and cursive, with the first name "Kay" and last name "Walker" clearly distinguishable.

KAY WALKER

Sr. Water Resource Agent

Enclosures: Amendment Application & Layout
Assignment of Permit form
Change in Ownership form



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 3, 2013

Amy E. English
3421 Butte Road
Emmett, ID 83617

RE: Scheduling Field Exam for Water Right Permit No. 65-22995

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 13, 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 0.02 cfs of spring water and surface water from an unnamed stream for 5.40 AF of stock water storage, wildlife storage, and aesthetic storage.

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 10, 2013, to conduct the exam during the week of May 13, 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,

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