

Method of Determination:

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

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>					
<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>

5-gallon bucket measurement taken at stand pipe prior to diversion into pond

2. Measurements: Measurement was taken from the 8" open discharge in to the stand pipe.

E. FLOW CALCULATIONS

Measured Method: 5 measurements were taken with an average 8.94 seconds.
 5-gallons X 60 seconds/8.94 seconds = 33.55 gpm/448.83 = 0.074 = 0.07 cfs flow

F. VOLUME CALCULATIONS N/A

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Diversion Rate is limited to 13,000gpd, Period of use 365 Days.

$$13,000\text{gpd} \times 365 \text{ days} = 4745000\text{gpy} \div 646,315\text{gpd (1 cfs)} = 7.341 \times 1.9835\text{af/d} = 14.56\text{af}$$

G. NARRATIVE/REMARKS/COMMENTS

License is for the right to divert surface water into a small pond. The pond is filled during the irrigation season with the applicant's canal shares from the Twin Falls Canal Company (TFCC) from an unnamed stream locally known as the J-2 Coulee. Waste Water use is available when the TFCC delivers its canal shares. Waste Water from a neighbor's field on the east side of the applicant's property is also diverted into the pond during the irrigation season. Water from the Unnamed Stream also known as the J-2 Coulee, is available at times when water is not being delivered by the TFCC. During the non irrigation season water is diverted to the pond via a ditch from this coulee (stream) and returns to the stream. During the times when TFCC water is being delivered 0.04cfs of waste water is available. During those times when waste water is not available 0.04cfs of water can be diverted and used. This is the basis for the volume calculation of 29af and year round use. The water being diverted via this right is for flow thru to keep the pond fresh during the non irrigation season; therefore the pond should be considered as a detail of live flow and not as a storage component. With the availability of water at these times the period of use was determined to be year round. The Point of diversion is a head gate controlled by the TFCC for delivery of Canal Shares to an open ditch and piped ditch that runs north along neighboring properties of the applicant. The last section of pipe has a T joint where the water is diverted to the west to the stand pipe where the applicant receives his water through a 6" pipe to the pond which is regulated by an over flow that returns the water to J-2 coulee (stream). I visited this location on two different occasions. The first was on February 1, 2010 with Corey Skinner to investigate a complaint filed by Mr. Hyde concerning the possible illegal diversion of water by Mr. Weaver. Then again on March 2, 2010 with Terry Blau and Jana Reeder to investigate Mr. Weaver's claim that the diversion was the natural drainage and that Mr. Hyde's diversion would dry up natural wet lands during this visit I completed the field exam. Photos in this report are from both visits. Water right 47-4231C POD is associated with the same POD as permit 47-17524. Water right 47-4231C POU is on the South side of this diversion and is diverted from the J-2 Coulee (stream) via a pump to the property not through the TFCC head gate (per owner).

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

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	14.6 AF
<u>Totals:</u>		0.040 CFS	14.6 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Benny Walker Date 3/16/2010

Reviewer _____ Date _____



Diversion from J-2 Coulee (Unnamed Stream) to the TFCC head gate

Photo taken 3/2/2010



Diversion from TFCC head gate to open ditch running North

Photo taken 3/2/201



Open ditch looking South towards TFCC head gate.

Part of ditch is piped and underground

Photo taken 3/2/2010



Looking East from stand pipe of ditch that runs West from the diversion ditch from the head gate

Photo taken 2/1/2010



Stand pipe where measurement was taken

Photo taken 2/1/2010



Plastic pipe from stand pipe to Mr. Hyde's pond. From this point the pipe is underground to pond.

Photo taken 2/1/2010



Looking South from Mr.
Hyde's home at pond

Photo taken 2/1/2010



Over flow pipe from pond back
to J-2 Coulee

Photo taken 3/2/2010



