

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14205

Exam Date: 12/6/2012

1. Current Owner: TIMOTHY DEE CAMPBELL
258 DENVER CEMETERY RD
GRANGEVILLE ID 83530
(208)983-3818
2. Accompanied by: In-Office field examination, using previous field exam conducted on 79-14012 on 6/13/2007, notes in the file for water right 79-14205, and pump comparisons obtained online.

3. **SOURCE**

JOHNS CREEK

TRIBUTARY

ROCK CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 79-14012 (same pond)
2. Other water rights with the same point of diversion: 79-14012 (the POD at the dam/spillway overlaps)

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

JOHNS CREEK NW1/4NE1/4 Sec. 20, Twp 30N, Rge 02E, B.M. IDAHO County

JOHNS CREEK NW1/4NE1/4 Sec. 20, Twp 30N, Rge 02E, B.M. IDAHO County

Method of Determination: 6/13/2007 field examinations; 2009 Arc Map, and Bing Maps Aerial

2.

PLACE OF USE: AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
30N 02E 20	<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>	
		X															

PLACE OF USE: IRRIGATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
30N 02E 20	<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>	
		X															

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
30N 02E 20	<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>	
		.3															.3

Total Acres: 0.3

Method of Determination: 6/13/2007 field examinations; 2009 Arc Map, and Bing Maps Aerial

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. (drawing in the file for water right 79-14205)
- ☒ 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 (no photo of the 110 Volt pump, but print-out of a similar pump found online, and printed off).

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>
(1) Dam/spillway					gravity flow system through the pond, then out the spillway
(2) 110 volt electric pump					no other information available, other than online information stating that a 110 volt pump produces 5 gpm (0.1 cfs)

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

D. FLOW MEASUREMENTS

1. Measurements:
No physical measurement was conducted. No rate is on the permit.
Going online to find rate for a 110 volt electric pump, found the results of 5 gpm (0.01 cfs).

E. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: **(but there is no irrigation component on this water right)**

$$V_{I.R.} = (0.3 \text{ Acres Irrigated}) \times (4.0 \text{ Irrigation Requirement}) = 1.2 \text{ af}$$

$$V_{D.R.} = [0.01 \text{ Diversion Rate (cfs)}] \times (214 \text{ Days in Irrigation season}) \times 1.9835 = 4.24 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ af}$$

2. Volume Calculations for Other Uses:

This water right is to cover additional storage found in the on-stream pond originally developed under water right 79-14012. Arc Map 2009 and Bing Maps calculated the pond to be 0.3 acres X 3 ft deep = 0.9 af. Water right 79-14012 is limited to 0.3 af, so the remaining storage will covered by aesthetic storage and irrigation storage (each being 0.60 af, since they are the same water).

Irrigation from Storage is limited to 3.0 af, to allow for irrigation use and refilling the pond.

RECOMMEND:

Aesthetic Storage 0.60 af

Irrigation Storage 0.60 af (same water as aesthetic)

Irrigation From Storage 3.0 af

Total Annual Volume 3.0 af

F. NARRATIVE/REMARKS/COMMENTS

This is an in-office field examination, using some of the notes from the field examination conducted for water right 79-14012 confirming the size of the pond (0.3 acres X 3 ft), location of the 4 ft. dam/spillway. Notes in the file from 79-14205 indicate that the pond used for aesthetic storage and irrigation storage overlaps with the stockwater storage pond in water right 79-14012. Water right 79-14205 was filed to compensate for the af not covered by water right 79-14012. The dam/spillway is the overlapping POD for both water rights 79-14205 and 79-14012. The other POD for water right 79-14205, according to notes in the file, is a 110 volt electric water pump for irrigating the 0.3 acres identified by Arc Map 2009, located north of the house. Information in reference to 110 volt electric pumps was obtained online to estimate the diversion rate capacity. It showed 5gpm (0.01 cfs), which would be possible for the 0.3 acres irrigated (moving the water around). Use is for Aesthetic Storage, Irrigation Storage, and Irrigation from Storage.

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

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
AESTHETIC STORAGE	01/01 to 12/31		0.60 AF
IRRIGATION STORAGE	01/01 to 12/31		0.60 AF
IRRIGATION FROM STORAGE	04/01 to 10/31		3.00 AF
<u>Totals:</u>			3.00 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

Jandy Hemenway Date 12/6/2012

SWSE

17

30N02E

SWSE

17

30N 21

SWSE

17

30N02E

NWNE

20

3 acre

NWNE

20

30N02E

NWNE

20

30N02E

NWNE

20

30N02E

bing

NWNE

20

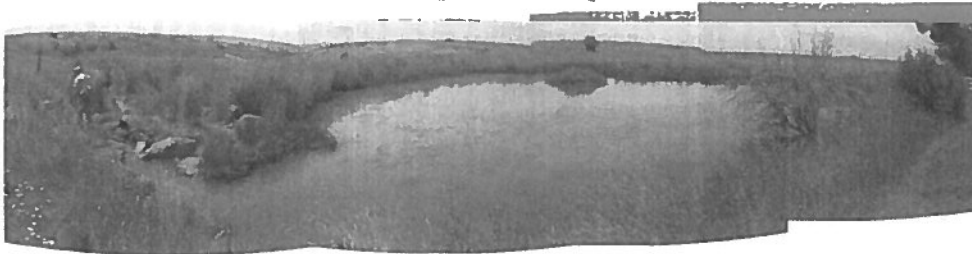
30N02E

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 6/13/2007

FILE NUMBER 79-14012 + 79-14205



The picture above shows the inflow point of the pond.



The photos above show the pond and the spillway. The pond is 188 feet wide X 130 Ft long with a depth from 1 to 3 feet.



This is the photo of the spillway for the pond. The spillway has been filled with a large number of rocks. During the field exam, Ray Hennekey from the Lewiston office of the Idaho Department of Fish and Game (IDFG) stated that this spillway was acceptable. The application for permit stated that the owner was required to have fish screens, but that is only needed on off stream developments. Mr. Hennekey stated that these types of on-stream ponds need a by-pass system for the red-band trout to move freely up and down the creek. Mr. Hennekey stated that this spillway could work if the rocks in the spillway were re-arranged slightly. Mr. Hennekey also wanted to have trees and willows planted around the pond to allow cooling of the pond, because this is a temperature sensitive stream.

Precipitation Loss Calculation

Date: December 5, 2012
Prepared by: Sandy Hemenway
Water Right No: 79-14205

P = Precipitation
ET = Evapotranspiration
 P_d = Precipitation deficit
 $P_d = P - ET$

P_d

Found at: <http://www.kimberly.uidaho.edu/ETIdaho/>

P_d = convert to AFA: (mm/yr) / (convert to feet) x # acres =
3 / 304.8 x 0.3
(From ET Idaho)

$P_d = 0.0$ AFA

* Use the Precipitation Deficit for 'P' value

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JohnDow (DOW17PK)

110-Volt Electric Pump Kit

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IN STOCK: YES

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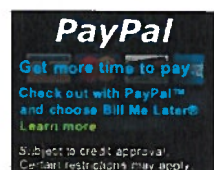
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estimate rate,

$$5 \text{ gpm} \times .00223 = 0.01 \text{ cfs}$$

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