

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-8366

Exam Date: 3/27/2013

1. Current Owner: RODNEY J GRIFFITH
4579B RIVER RD
BUHL ID 83316
(208)543-5585

2. SOURCE

UNNAMED STREAM

TRIBUTARY

DEEP CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-4177C (0.36 cfs Irrigation); 47-17570 (0.06 cfs Irrigation)
2. Other water rights with the same point of diversion: 47-4177B; 47-4177C; 47-4177D; 47-4177E: 47-17570; 47-8394

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

UNNAMED STREAM

SE1/4NW1/4SW1/4

Sec. 9, Twp 09S, Rge 14E, B.M.

TWIN FALLS County

Method of Determination: Waypoints were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the points of diversion are located as recorded. See attached map.

2.

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	
09S	14E	9														X			

DIVERSION TO STORAGE same as AESTHETIC STORAGE

Method of Determination: Tracks were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the place of use is located as recorded. See attached map.

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

D. FLOW MEASUREMENTS:

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portable Flume						

2. Measurements: Measurement taken using portable flume 75' downstream from point of diversion on 10/26/1999 by Georgia Satterlee, measured 1.65 cfs.

E. FLOW CALCULATIONS: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for Other Uses: Aesthetic Storage:

Pond 1: 0.02 acre x 2.5 feet = 0.05 af	Determined by collecting GPS tracks and downloading them into ArcMap. Pond capacity estimated using flat bottom reservoir equation (Capacity = Surface Area x Maximum Depth)
Pond 2: 0.02 acre x 2.5 feet = 0.05 af	
Pond 3: 0.19 acre x 3.0 feet = 0.57 af	
Pond 4: 0.18 acre x 3.0 feet = 0.54 af	

Total = 1.2 af

G. NARRATIVE/REMARKS/COMMENTS

Permit was permitted for 2.0 cfs for diversion to storage and 1.2 af aesthetic storage. Application for permit was submitted by Rod. J. Griffith on 06/06/1994, an amended application for permit was filed 10/27/1994, and proof of beneficial use was submitted 01/30/1998. The amended application corrected the legal description of the point of diversion.

Field exams were originally conducted by Georgia Satterlee on 03/19/1998 and 10/29/1999 for this permit and a companion permit, 47-8394. I revisited the site and conducted a field exam on 03/27/2013. Originally five ponds had been developed inside a 27 acre elk enclosure that was no longer in use and had fallen into disrepair along with the pond system and water delivery system. All the ponds were empty, except for one that was still receiving a trickle of water from the ditch (pond No. 3). I collected GPS tracks along the high water marks and estimated the average depth of the ponds. I have only included four of the five ponds developed under this permit on this beneficial use exam as the total storage capacity of all five ponds was determined to be greater than the 1.2 af applied for on this permit. The fifth pond will be licensed under the companion permit as it provides sufficient volume and will allow the entire pond system to be licensed between the two rights. See attached map of Diversion system.

The actual point of diversion is approximately 0.6 miles to the west of the enclosure, and water is diverted from an unnamed stream through a partially buried 16" metal pipe into a ditch just above a concrete check structure. The ditch was overgrown with willows and aquatic vegetation and had several ponds on it. The water was backed up with virtually no flow along the entire ditch, making the possibility of obtaining an additional flow measurement anywhere near the point of diversion impossible.

This file was forwarded to the state office for licensing in 1999 and was returned without licensing. A memorandum (available in the water right back file) discussed the reasons. The first was potential conveyance losses due to taking the measurement 75' downstream from the point of diversion. It should be noted that the soils in this area are high in silt, and seepage over a 75' distance would be minimal. Also, after viewing the site, the original measurement was likely taken as close to the actual point of diversion as physically possible because the ditch is very narrow at the beginning and was likely inaccessible as it flows

through a brush thicket. I walked the ditch looking for a suitable spot to use a portable flume for measurement and it was approximately 65' before the ditch widened from 1.5' to 2.5' and was not completely overgrown with brush. Another point of concern regarding the licensing of this permit was that there was no flow rate for aesthetic purposes provided on this right and amending it to do so would exceed the use authorized by the permit. The application for permit 47-8394 was amended to provide for an aesthetic flow component to address this concern and it will be forwarded for licensing along with this permit.

This rights place of use overlaps with the POU for irrigation right 47-4177C, for 0.36 cfs. Hand lines were present adjacent to ponds No. 1 and No. 2. Irrigation right 47-17570 overlaps slightly with pond No.8, but is appurtenant to grounds adjacent to the Griffith's property owned by Roderick K. Rynders. There are 6 water rights diverted from this ditch sharing the same point of diversion: 47-4177B (0.6 cfs irrigation & 0.02 cfs stockwater); 47-4177C (0.360 cfs irrigation); 47-4177D (0.03 cfs irrigation); 47-4177E; (0.06 cfs irrigation); 47-17570 (0.06 cfs irrigation) and 47-8394 (companion permit, 1.65 cfs aesthetic; 2.3 af aesthetic storage; 1.65 cfs diversion to storage).

Although the system is currently in disrepair, the system was developed and utilized and could easily be rehabilitated with some maintenance.

Recommend licensing 1.65 cfs for Diversion to Storage and 1.2 af for Aesthetic Storage.

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>
AESTHETIC STORAGE	1/01 to 12/31		1.20 AF
DIVERSION TO STORAGE	1/01 to 12/31	1.650 CFS	
<u>Totals:</u>		1.650 CFS	

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 Ben Mark Date 4-22-2013

Reviewer AS Menta Date 5/9/2013



Figure 1: Pond No. 3



Figure 2: Pond No. 5



Figure 3: Partially buried 16" pipe, point of diversion from unnamed stream into ditch

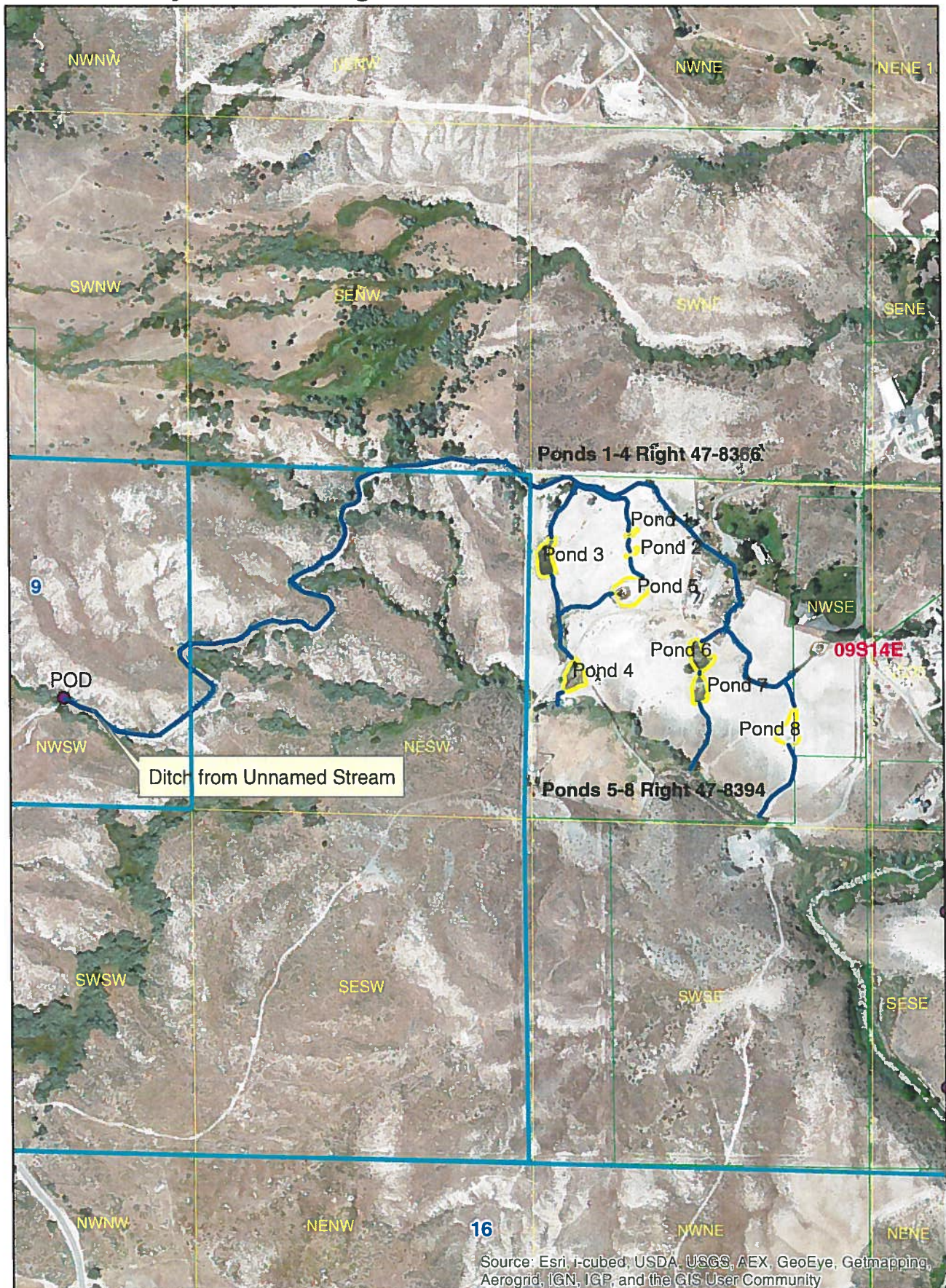


Figure 4: Current state of ditch



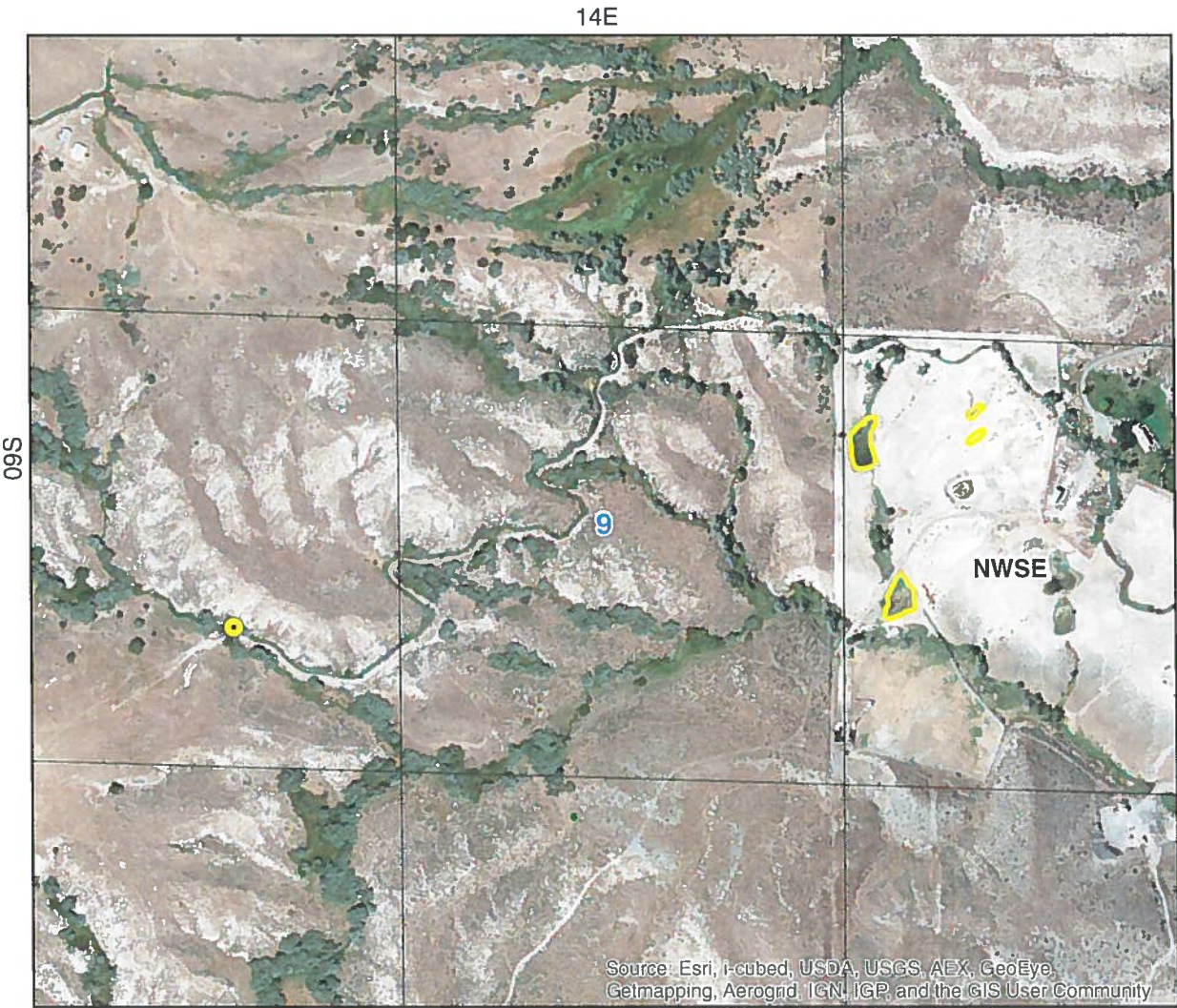
Figure 5: Remnants of check structure on unnamed stream 10' downstream of point of diversion

System Diagram 47-8366 & 47-8394



State of Idaho
Department of Water Resources
Attachment To Water Right License
47-8366

This map depicts the AESTHETIC STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.05 0.1 0.2 Miles

