

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

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A
2. Volume Calculations for Other Uses:

RECREATION, WILDLIFE, & AESTHETIC STORAGE

Equation for determining surface areas for a rectangular shaped, flat bottomed reservoir, from *Reservoirs, Lakes, & Ponds* in the Field Examiners Manual:

$$\text{Area (Acres)} = \text{Width (ft)} \times \text{Length (ft)} / 43,560 = (50 \times 60) / 43,560 = 0.07 \text{ Acres}$$

$$\text{*Average Depth} = 4.5 \text{ ft}$$

$$\text{Volume} = \text{Surface Area} \times \text{Average Depth} = 0.07 \times 4.5 = 0.32 \text{ AF}$$

*Dimensions taken from May 15th, 1998 visit made by Corey Skinner.

G. NARRATIVE/REMARKS/COMMENTS

Corey Skinner (IDWR) and I visited the place of use (POU) and point of diversion (POD) on May 17, 2012, after obtaining permission from the current owner, Mr. Robert Rietveld. It was discovered, that sometime after the development period (Proof Filed October 13, 1998), the diversion dam had failed and had not been reconstructed. Because of the relative small size of the impoundment, it was not feasible to determine from the Departments available aerial & satellite imagery the approximate year of the failure. However, from notes in the permit file, the impoundment was in place at the time the permit was issued. According to a field visit made by Corey Skinner on May 15, 1998, noted in a May 18, 1998 Memo, "The embankment was built across Holt Creek channel and appeared to have a maximum hydraulic height of about nine feet (measured from the lowest spot on the downstream toe). Material had been excavated from the left (west) side of the channel upstream of the embankment in order to form a reservoir behind the embankment. I estimated (by pacing) that the total reservoir dimensions were about 50 feet by 60 feet (total surface area less than 0.10 acre). In addition, I estimated the average depth of the reservoir to be 4.0 to 5.0 feet (estimated storage volume of approximately 0.30 acre-feet). An 18" diameter steel pipe was placed through the embankment, near the crest, to serve as an outlet/spillway for the reservoir."

Permit contained a condition that "Prior to the diversion and storage of water under this right, the right holder shall submit plans for the fish ladder or fish passage facilities to the department for review and approval unless the right holder submits a written waiver to the department from the Department of Fish and Game describing that fish passage facilities are not needed in connection with the storage facility." The source, Holt Creek, is tributary to Sinks and does not connect to any major drainage or tributary. Also, during the May 27, 2012 visit, we observed an insignificant flow of water passing through the permitted area, in what is usually a peak flow period. It was determined that the flow could not feasibly support a fishery of any significance. Because of this, the condition is being recommended to be dropped.

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>
RECREATION STORAGE	01/01 to 12/31		0.30 AF
WILDLIFE STORAGE	01/01 to 12/31		0.30 AF
AESTHETIC STORAGE	01/01 to 12/31		0.30 AF
<u>Totals:</u>			0.30 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  Date 8/27/2012

Reviewer  Date 8/28/2012

To: 43-7325 File
From: Jeff Cooper
Date: 8/27/2012
Re: Field Examination Photos & Map



Figure 1: Panoramic of Point of Diversion (POD) and place of use (POU).



Figure 2: Outlet Pipe in Holt Creek Channel



Figure 3: Aerial imagery of POU & POD (Bing, 2011).