

Lower Weber River Diversion Modernization – Final Report

In 2008, TU and many project partners were contacted by the water users on the Weber River at the mouth of Weber Canyon near Ogden, UT. The water users were faced with a challenge of



maintaining their failing infrastructure on the Weber River. By engaging the fish community, the water users were able to leverage their resources to reconstruct their diversion. Likewise, the fisheries interests were able to incorporate fish passage and screening elements into the project. Unfortunately the original project, as designed, had serious flaws, which limited fish passage only to moderate flows, and the screens experienced clogging. With the continuation of this partnership and funding from the Fish Habitat Partnerships and the UDWR, we were able to retrofit important high flow passage at this site.

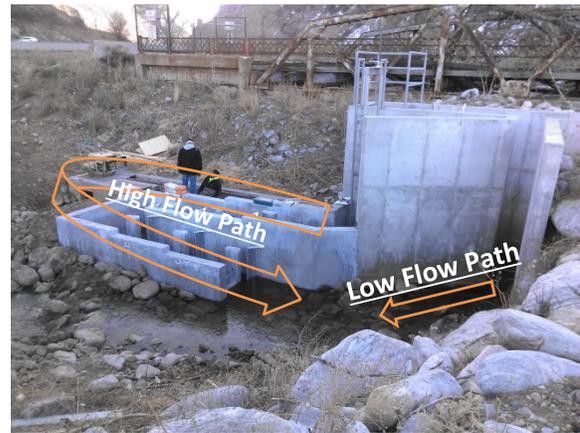


The lower Weber River Diversion after initial construction in 2011.

This shared WNTI and DFHP project was focused on securing fish passage at high flows, using Bluehead sucker as the target species. Planning and data collection occurred on this project since 2012. Finally, in 2015, we had secured a final design and were under construction.

The fish passage design elements for this project included the construction of a vertical slot fish ladder with 6 inch drops, to maintain water velocities generally around 4 feet per second. Construction occurred in March of 2015 and was completed in April. High flows in May, 2015 exhibited that the fish ladder was operating as planned.

Fish Ladder Budget	
Source	Amount
UDWR – Blue Ribbon Fisheries	\$50,725.33
WNTI	\$11,935.35
USFWS Fish Passage	\$11,935.35
DFHP	\$1,000.00
Total	\$75,596.03



The high flow fish ladder immediately after construction. This project added an additional pathway for fish to ascend this structure with the water coming together at the same point as the low flow passage structure for attraction.



The high flow fish ladder in operation during May of 2015.