



SMALL GRANT PROGRAM

PROJECT COMPLETION REPORT

Complete and send with required attachments to OWEB. Keep a copy for the file maintained by the Small Grant Team.

Name of Project **Bateman Creek Culvert Replacement Project**

Project Number: **13-06-009**

Grantee **Tualatin River Watershed Council** Phone **503-846-4810**

Organization **Tualatin River Watershed Council** Email **trwc@easystreet.com**

Address **P.O. Box 338, Hillsboro, OR 97123-0338**

Street/PO Box

City

Zip

PROJECT DESCRIPTION AND RESULTS

Describe the PROBLEM(s) you expected to address, the WORK implemented through this grant, the RESULTS shown from implementing the project, and any LESSONS LEARNED.

The problems addressed by this grant included improving fish passage, water quality and future transportation needs through removing undersized and rusting/crushed culverts and replacing the stream crossing with a concrete slab bridge.

The work began in August 2006 and was completed in late September 2006. It included removing two culverts, (36 inches in diameter, one of which was crushed and other which was rusting), constructing footings for and installing three 21' by 4' by 1' concrete slabs (weighing 12,000 pounds each) onto the footings and bolting the bridge together. The estimated weigh the bridge will support is 80,000 pounds on five axles, which will be sufficient for future logging activities.

Steve and Dave Bateman performed the work of culvert removals, footings construction, moving the bridge slabs into place, bolting the bridge together once the slabs were in place, erosion control and seeding work. Due to the weight of the slabs, two trackhoes/log loaders (one supplied by and work performed by Steve Bateman, the other as part of contracted services) were needed to lift each slab into place and then place and align the slabs to form the bridge. Paul Johnson, an active Northwest Steelheaders volunteer and civil engineer, designed and oversaw the project.

Prior to the work, fish salvage, netting the area to prevent fish in the work site and erosion control measures were performed by ODFW personnel. Twenty-two cutthroat trout were salvaged prior to the commencement of work. Post installation work included plantings for bank stabilization with additional plantings to be installed this winter.

Results from installation of the bridge include unblocked passage for native cutthroat trout and winter steelhead trout; and better water quality and less sedimentation in the stream since there will be no debris blockages of culverts due to high winter flows. This bridge installation project was completed within several days of the adjacent Highway 6 Oregon

Dept. of Transportation (ODOT) bridge project completion. The ODOT bridge replaced a fish passage barrier culvert near the confluence of Bateman and Gales Creek.

Lessons learned included that the second time a task or activity is performed it can be done almost twice as quickly. (Knowledge is cumulative).

Signed _____ Date _____

REQUIRED ATTACHMENTS:

- X 2-6 color photographs, showing project implementation and completion
- X Restoration Reporting form (<http://egov.oregon.gov/OWEB/MONITOR/OWRI.shtml>)



Picture 1: Culverts removed from the streambed.



Picture 2: The stream is re-routed in a temporary culvert through the work areas following culvert removal. Building the footings for the bridge (three layers of ecology blocks) has begun.



Picture 3: The completed forms await the cement delivery, mixing and pouring.



Picture 4: Putting the third and last bridge slab in place.



Picture 5: The completed bridge with the anchor bolt in place.



Picture 6: November 2006 flows under the completed bridge.