

**Project Manager Report Review Protocol
Post-Implementation Status, Interim Progress, and Quarterly Reports**

Received By
OWEB

Purpose of Reports- Document public dollar investment to protect and restore healthy watersheds and natural habitats that support thriving communities and strong economies.

MAR 25 2016

Date of Report 3/23/2016 Grant No. 212-2013 Report #2 Project Manager Mark

Type: Progress/Quarterly PISR Other:

CHECK LIST	If No, Explain
1. Review Special Conditions (Exhibit B) to identify additional or different reporting requirements. Did Grantee meet these requirements? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Progress report indicates grantee will not be able to meet project objectives described in grant application (e.g. landowner no longer allowing access). <input type="checkbox"/> Other: Explain:
2. Review PISR requirements (Exhibit D). Did Grantee fulfill these requirements? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> PISR does not provide sufficient documentation to determine status of OWEB investment. <input type="checkbox"/> Other: Explain:
3. Photos: Did Grantee fulfill the requirements for photo point monitoring described in the grant agreement (i.e. before and after photos located at consistent photo points and includes a current photo)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Photo points do not include all major project components. <input type="checkbox"/> Photo points do not include project locations on each landowner site. <input type="checkbox"/> Grantee is unable to locate photo point(s). <input type="checkbox"/> Grantee is unable to access photo point (e.g. not safe or no landowner approval). <input type="checkbox"/> Other: Explain:
4. Other requirement:	Explain:

REPORT APPROVAL

Progress report demonstrates a trajectory for success in meeting project objectives. If not, report sufficiently indicates Grantee is taking action to increase likelihood for project success.

PISR sufficiently describes project status to determine OWEB investment is in place and functioning as intended. If not, report sufficiently documents why to inform future OWEB decisions.

Justification if needed (briefly explain how you resolved issues documented in the checklist table and/or attach relevant communications):


Report Approved By: Project Manager Signature


Date

If you are unable to complete this form and sign for report approval, meet with a Program Manager to determine how to move forward.

Partnership for the Umpqua Rivers



1758 NE Airport Road
Roseburg, OR 97470
(541) 673-5756

*Report Approved
3/23/2016*

Waggoner Creek Instream Restoration

OWEB Project # 212-2013-8856

Project Monitoring Report – Year Two

Exhibit D



Prepared By
Partnership for the Umpqua Rivers
February 23, 2016

Background

Waggoner Creek, like many streams in the Lower Umpqua Basin, was lacking large wood and boulders in the channel as a result of historic splash-damming and stream cleaning practices. Fires and streamside logging also took their toll on riparian areas, and as a result Waggoner Creek is bedrock dominated and has little of the habitat diversity required for successfully producing salmonids. This project aimed to fix this problem through the placement of LWD and boulders in the mainstem.

Project Description

Work began on this project in early August 2012, and was completed on September 12, 2012. We placed, with an excavator, 167 logs and 360 boulders throughout 34 sites on 2 miles of the mainstem. Sites consisted of 5-7 logs each and 0-20 boulders each. All logs were keyed into riparian trees, and gaps in between the logs were filled in with boulders. We also placed 5 whole, 36" Douglas fir trees with the excavator at locations immediately above and below log/boulder sites to provide additional overhead cover for juvenile salmonids.

Changes to original proposal

There was only one significant change to this project. In the original grant, we proposed placing the whole trees with a line-pulling machine (an expensive undertaking). However, through onsite discussions with our excavator operator it became clear that he could push the trees over with his excavator, thus saving a significant amount of money. He was able to push the trees over, rootwads included, and place them in the stream exactly where designed.

Lessons Learned

The primary lesson learned from this project is to be considerate of timelines when applying for permits. We submitted our permit application in early summer, but due to staff workload the permit was not issued until shortly before work began. In the future we will submit our applications well in advance of the field season.

Meeting Goals

This project continues to meet all of the goals that were established during project development through implementation. Approximately 167 logs, 360 boulders, and 5 whole 36" Douglas fir trees were placed at 34 sites throughout 2 miles of Waggoner Creek. Spawning, rearing and winter refuge habitat have been enhanced due to instream structures. Waggoner Creek has regained connection to the floodplain; gravel and other fine material has accumulated around structures and deep pools have developed near most of the structures. See photo pages 4-7. The amount of summer water present in the system has been much higher post-implementation, providing cooler water temperatures and more consistent habitat for coho. After two years of monitoring, the most impressive observation is the accumulation of gravels in the previously bedrock dominated system. This year's photos really identified how responsive this reach of Waggoner Creek has been to restoration. We look forward to similar responses in future work planned for the watershed.

Maintenance and Modifications

No maintenance or modifications have been needed.

Costs

Since no maintenance or modifications were required with this project there were no additional costs. Costs were incurred for the site visit to take photos as well as to write the report.

Category	Unit Number	Unit Cost	Total
Travel	75 miles	0.56/mile	\$ 42.00
Staff Time Monitoring	0.5 days	\$340/day	\$ 170.00
Staff Time Report	3 hours	\$30/hour	\$ 90.00
		Total:	\$ 302.00

Public Awareness

Now that monitoring for the project has concluded, project monitoring information will be added to PUR's website (www.umpquarivers.org). This site is highly visible from Waggoner Creek Road and has been the subject of several post-restoration tours.

Photo Points

Project Site 11



Figure 1a. Looking downstream at site 11.
Pre-project: 3/15/2011



Figure 1b. Looking downstream at site 11.
Post-project: 12/19/2013



Figure 1c. Looking downstream at site 11. Two logs were washed out of the site during high water, but both were captured in the next site downstream.
Post Project 2/15/2016



Figure 1d. Site 11 looking upstream. Alders and willows are growing nicely in the riparian access corridor.
Post-Project: 2/15/2016

Project Site 20



Figure 2a. Looking upstream at site 20.
Pre-project: 3/15/2011



Figure 2b. Looking upstream at site 20.
Post-project: 12/19/2013.



Figure 2c. Site 20 looking upstream.

Post-project: 2/15/ 2016

Massive amounts of gravel have accumulated above the site, which was strategically located just below a small tributary (center of photo).



Figure 2d. Site 20 looking downstream.

Post-project: 2/15/2016

Fine material has also accumulated above the site.

Project Site 33



Figure 3a. Looking upstream at site 33.

Pre-project: 3/15/2011



Figure 3b. Looking upstream at site 33.

Post-project: 12/19/2013



Figure 3c. Looking upstream of site 33.

Post project: 2/15/2016

This reach was bedrock-dominated prior to implementation. Gravel has accumulated here and now it is an excellent spawning area.

Project Site 6



Figure 4. Site 6, looking downstream. This large alder with rootwad fell into the stream channel and was lodged into the site, further strengthening the structure.

Post-project: 2/15/2016

