

**TENMILE LAKES' BASIN
PARTNERSHIP
Final
MONITORING REPORT
CONTRACT #204-099
April 2008**



Upper Johnson Fence and Johnson Bridge #1

INTRODUCTION

In December of 2003, the Tenmile Lakes Basin Partnership (TLBP) passed a motion initiating the development of the Tenmile Lakes Fish Passage and Sediment Abatement Project as a part of implementing the Watershed Council's Action Plan and recommended activities that the Nutrient Budget Study identified.

With this direction, funding was obtained from the Oregon Watershed Enhancement Board and the Department of Environmental Quality. Planning and scheduling began for Project Partners who included the Elliott State Forest, Menasha, and Eel-Tenmile S.T.E.P., and seven individual monitoring site landowners.

Projects completed within this contract include nine fish passage fixes: Clear Creek Culverts #2 and #3, Goose Cr Bridge, Goose Cr. Tributary A Bridge, Johnson Cr. Bridge Fix, Johnson Creek Bridge #I, Sunlake Tributary A Bridge, Sunlake Tributary B Bridge, and Sunlake Culvert Removal. Johnson Creek (Upper) Fence was the one fencing project completed within 204-099. Noble/Alder fencing project originally within this contract was delayed due to massive landslides at site and was completed under a different contract.

This report is to fulfill the Partnership's monitoring requirements of this management project, grant 204-099. All of these activities were specifically designed to address the apparent decline of water quality and native fish habitat within the basin.

PROJECT EVALUATION

Overall, the Tenmile Lakes' Watershed Fish Passage and Sediment Abatement Project successfully integrated on-the-ground enhancement projects on private agricultural and forestlands. Most of the specific component implementation objectives were met. This Final Monitoring Report reveals that all project components are successfully achieving their stated objectives.

ACKNOWLEDGEMENTS

The Tenmile Lakes Basin Partnership would like to thank the many contributors that assisted in designing and conducting the monitoring plan of this project, without whose cooperation, getting a better understanding of the results of these fish passage and fencing projects would not have been possible.

Funding

Oregon Watershed Enhancement Board
Oregon Department of Environmental Quality - 319 program
City of Lakeside
Tenmile Lakes Basin Partnership

Technical Assistance

Pam Blake (ODEQ)
Harvey Wilcox

Landowner/Lease

Joe Goularte
Bob Hankins
Sunlake Rd Association
Jim Linwood
Bob Bueler
Cora Johnson
Allen Aisworth
Sunlake Marina

MONITORING PROTOCOLS

Watershed Council staff with the assistance of the site Landowner(s) conducted our bi-annual surveys of the project components of this sediment abatement project. The "Monitoring Team" evaluated project site and associated areas twice a year, during high and low flows. These surveys involved visiting a photo point to record current status of the project with a camera and completing Monitoring data form. Effectiveness Monitoring follows the guidelines established in the approved Tenmile Lakes Water Quality Assurance Plan 2004.

MONITORING RESULTS

The Tenmile Lakes Fish Passage and Sediment Abatement Project have successfully achieved our initial project goals.

PROJECT	PROJECT GOAL	STATUS
Fish Passage Projects	Remove barrier to fish passage.	Successful.
Clear Culvert #1 Clear Culvert #2 Goose Bridge Goose Trib A Bridge Johnson Bridge #1 Johnson Bridge Fix Sunlake Trib B Bridge Sunlake Trib A Bridge Sunlake Culvert Removal	Reduce erosion from site.	Partially Successful Clear Creek #2 suffer some erosion in November 2007.
	Reduce crossing maintenance	Successful
Fencing (Johnson Upper)	Reduce sediment delivery from stream reach.	Successful. Once small segment actively eroding. Fix in place.
	Exclude livestock from riparian areas	Successful
Fencing(Noble/Alder)	Reduce sediment delivery from stream reach.	Successful.
	Exclude livestock from riparian areas	Successful.

More specific observations are available in the attached monitoring data sheets and monitoring photographs.

RESULTS

FISH PASSAGE

Monitoring results of the nine completed fish passage project reveals is achieving the stated objectives of fish passage and sediment abatement. Current bank vegetation, pool conditions are good at the Clear Creek #3. Monitoring of Clear Cr. #2 revealed a maintenance need with inlet erosion at site in summer of 2007. Fall of 2007 inlet erosion fixed. Monitoring in spring of 2007 revealed a utility line was damaged at the Goose Creek Tributary A Bridge. Landowner Jim Linwood and Verizon addressed issue in summer of 2007. Current bank vegetation and channel conditions above and below the seven bridges implemented are good. No maintenance needs

have been identified at any of the project sites at this time. It is recommended that monitoring for all sites except Clear Creek Culvert #2 be discontinued.

FENCING:

Monitoring reveals the 4,200ft of Johnson Cr. fencing is achieving the goals of reducing bank erosion and sediment delivery from this reach by excluding stock from stream banks. Current condition of project site is good with 90% vegetation cover except at small site of erosion on the north bank with summer time stream temperatures averaging 62.3 F. The Johnson Creek site is still a selected site for OWEB to conduct "new" fencing monitoring protocols.

Fencing of Alder was completed after landslide debris was cleared and fencing area was prepped. Effectiveness monitoring will continue at this site.

DISCUSSION

The Fish Passage and Sediment Abatement component of this contract is still an outstanding success, except for the described inlet erosion on Clear Creek Culvert #2. With this site one of the few council projects completed in a sand substrate, the Monitoring Committee recommend continued monitoring of this site. All other fish passage sites within this project are similar in design and site conditions with recent fish passage projects that it is recommend that partners discontinue monitoring to avoid duplication and reduce monitoring schedule. Monitoring of the Sunlake Culvert removal has shown great success and has been used to secure the removal of a similar culvert on Adams Creek in the summer 2008, OWEB contract 208-2000-6503.

Project site Landowners contributed time and labor to monitor each of these project sites.

Monitoring of the fencing on Noble/Alder and Johnson Creek (Upper) shows both sites have been successful up to this point. With the high winter flow and potential damaging debris flows that our fencing sites receive, as well and Landowner negative attitudes towards fence maintenance, we recommend that we continue monitoring all fencing sites to ensure projects are achieving everyone's goals. Monitoring did reveal that vegetation i.e., blackberries, need better maintenance.

ATTACHMENTS:

This monitoring report includes our Bi-annual photo points and data sheets from winter 2008, describing current conditions at each project site. In addition, initial photographs of site, project implementation and location map have been included.