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Project Name:

Smutz Draw Fish Passage Improvement Project 2006
BPA Contract #: 27236

Project Contact:

Joe Neer, La Grande Ranger District (541) 962-8588
Randy Nielsen, Wallowa-Whitman SO (541) 523-1273

Project Description

Introduction

This project replaced an undersized culvert at the mouth of Smutz Draw. The old pipe was a round corrugated metal pipe three feet in diameter, 30 feet in length, with an average gradient of 4.5%. Average bankfull width at the site is 7.5 feet. See Photos 1 and 2 for before pictures (attached).

Project Objectives

1. Provide fish passage for all life stages of resident redband trout (*Oncorhynchus mykiss gibbsi*)
2. Reduce sediment delivery during high flow events
3. Replace undersized culverts with structures designed to pass 100 year flows.

Project Description

The new structure at the mouth of Smutz Draw, constructed in September of 2006, is a pipe arch 8.6 feet in width and 5.9 feet in height. The pipe arch is designed to pass a 100 year flow event and is counter sunk an average two feet in depth. Stream bed simulation is incorporated into the design. See Photos 3 and 4 (attached).

Project Participants

USFS - NEPA, Consultation, Design, Contract Implementation
GRMW – Funding
OWEB - Funding

Project Accounting

Summary of Expenditures

Line Item	Original Budget	Total BPA Funds	Total OWEB Funds	Total USFS Funds	Remaining Budget
Materials & Supplies	\$18,000	\$15,286.95	\$2,104	\$0	\$609.05
Contracts	\$27,000	\$20,648	\$6,209.40	\$0	\$142.60
Miscellaneous	\$600	\$0	\$0	\$600	\$0
Personnel	\$17,520	\$0	\$0	\$17,520	\$0
Travel	\$1,355	\$0	\$0	\$1,355	\$0
Administration	\$3,204	\$0	\$0	\$3,204	\$0
TOTALS	\$67,679	35,934.95	\$8,313.40	\$22,679	\$751.65
Percent Expended		%98	%98	%100	

Project Map

The map submitted with the proposal is the same.

Project Assessment

All objectives were met with the construction of the pipe arch on Smutz Draw.

1. Passage is now possible for all life stages of redband trout (and steelhead adults and juveniles once passage is provided through I-84).
2. With the construction of the new pipe arch designed to pass up to a 100 year flow event, the sediment delivery concern related to the undersized culvert no longer exists.
3. The new pipe arch is designed to pass up to a 100 year flow.

Project Monitoring

- ◆ Monitoring will consist of implementation monitoring. This entails visually monitoring projects during and after construction to assure objectives are met.
- ◆ Monitoring of disturbed ground for invasion of noxious weeds and control when necessary. Monitoring will occur for two years.
- ◆ Prepare a final report describing the implementation and achievement of the above stated objectives and submit to Grande Ronde Model Watershed Program.

- ◆ Prepare and submit an annual monitoring report with photo points to the Grande Ronde Model Watershed Program.

Photo 1. Downstream view of Smutz Draw culvert before project implementation.



Photo 2. Upstream view of Smutz Draw culvert before project implementation.



Photo 3. Downstream view of Smutz Draw culvert after project implementation.



Photo 4. Upstream view of Smutz Draw culvert after project implementation.

