**Umatilla Basin Fish Facilities Operation & Maintenance
Project Number 198343600; Contract Number 35073**

Annual Report, Fiscal Year 2008

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Annual Report Summary

Westland Irrigation District, as contractor to Bonneville Power Administration, and West Extension Irrigation District, as subcontractor to Westland, provide labor, equipment, and material necessary for the operation, care, and maintenance of fish facilities on the Umatilla River. Westland Irrigation District is the contractor of record.

Job sites that are covered: Three Mile Right, Three Mile Left, Three Mile Adult Spawning, WEID Sampling Facility, Maxwell Screen Site, Westland Screen Site/Ladder/Juvenile Sampling Facility, Feed Canal Ladder/Screen Site, Stanfield Ladder/Screen Site, Minthorn Holding Facility, Thornhollow Acclimation Site, Imeques Acclimation Site, Pendleton Acclimation Site, and South Fork Walla Walla Spawning Facility.

O & M personnel coordinate with the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) and Oregon Department of Fish and Wildlife (ODFW) personnel in performing tasks under this contract including scheduling of trap and haul, sampling, acclimation site maintenance, and other related activities as needed. The input from ODFW biologists Bill Duke and Ken Loffink, and CTUIR biologist Preston Bronson is indispensable to the success of the project, and is gratefully acknowledged.

All tasks associated with the project were successfully completed during the fiscal year 2008 work period of October, 2007 through September, 2008.

The project provides operations and maintenance throughout the year on five fish screen sites with a total of thirty-four rotating drum-screens, and four fish ladders in the Umatilla River Basin; additionally, periodic operations and maintenance is performed at holding, acclimation, and spawning sites in the Basin. Three people are employed full-time to perform these tasks. The FY08 budget for this project was \$492,405 and actual expenditures were \$490,267.01.

Schematic of Facility Locations:

Figure 1. Umatilla River Basin

Figure 1. Three Mile Dam, Pendleton, Minthorn, Thornhollow, Imeques C-mem-ini-kem, Bonifer, and South Fork Walla Walla satellite facilities.

Selected work activities and concerns:

- 1) Feed Dam Passage Improvement Project – A project to improve fish passage over the short term at the Feed Canal Diversion Dam site (Umatilla River mile 28.7) was implemented with local U.S. Bureau of Reclamation field office personnel coordinating project activities. Operation and Maintenance Project personnel assisted with labor, materials, and equipment to ensure the project was completed as planned. Discussions are under way to determine feasible alternatives for longer term solutions to passage issues at the site.
- 2) Three Mile Right (east bank) Facilities – The pump for supplying water to the fish handling facility holding pond was reconstructed successfully to achieve the desired increase in flow output necessary when increased quantities of fish are present
- 3) Fish Screen Rehab at Stanfield Canal Diversion – Working with the Washington Department of Fish and Wildlife screen shop personnel, three rotating drum screens at the Stanfield Canal diversion site (Umatilla River mile 33.3) were serviced and overhauled with new bearings, seals, paint, and reinforcing bars. Work was completed, and screens reinstalled prior to water diversions beginning in the spring.
- 4) O & M personnel performed daily, weekly, and monthly operations and maintenance duties at the screen and ladder sites including, but not limited to, desilting of mud and debris, lubrication of mechanical parts, replacement of screen seals and screen motor components, adjustment of ladder gates, removal of large trees and woody debris deposited during high river flow conditions, servicing of pumps and screens for fish handling operations and sampling studies, in addition to general site clean-up, vegetative control, and security. Crew members responded as needed during evenings and after-hours according to weather conditions, river flows, and fish passage facility needs.