



**Performance (Technical) Report**  
**NOAA award NA77FH0126**  
**Amendment #2**  
October 1, 1998 to September 30, 2000

Recipient:

Idaho Department of Fish and Game  
600 S Walnut  
Boise, ID 83707-0025

For the Period:

October 1, 1998 to September 30, 2000

Submitted by:

Patrick Marcuson  
for  
Stephen M. Barton  
Chief Bureau of Administration

## East Fork River Restoration IDFG PCA 35711

### East Fork of the Salmon River Restoration IDF&G PCA 35711

Working closely with Pat Marcuson, Tom Parker, and Dallas Burkhalter, the East Fork Restoration (Conservation Easement) was finalized and cleared by the director and commissioners. With the appraisal completed we presented the package to Jr. Baker for his decision. After long months of negotiations and work at the request of Mr. Baker, he declined the opportunity to participate in the Conservation Easement.

The funds were then transferred to a water conservation project on the Pahsimeroi River where the funds were used to eliminate the P-8A diversion and a pump from the Pahsimeroi River. The other positive results from the project was two spring creeks were re-connected on Big Springs Creek and the Pahsimeroi River, four cfs was re-established in Big Springs Creek and approximately 11 cfs in the Pahsimeroi River. Several irrigation diversions will be modified to allow fish passage. The work is completed and all expenditures were paid through the Custer Soil and Water Conservation District, who cost shared with IDF&G to complete the project.

Larry Weeks PCA leader  
IDFG  
Anadromous Fish Screen Easement Specialist

## Selway Falls Fishway Repair IDFG PCA 35712

This project was comprised of three major goals; 1) determine extent of steelhead trout usage of the Selway Falls fishway, 2) determine cost estimate of renovating the fishway, and, 3) determine locations and management direction for anadromous fish migration barriers on the upper Selway River and the lower Salmon River tributaries.

1. During a two-week period, from 23 March 1999 through 07 April 1999, thirty-two steelhead trout were captured and tagged with gullet-radio transmitters Table 1. Two of the fish tagged may have been hatchery fish as a portion of the adipose fin appeared to have been clipped. Three of these fish were captured by net from within the tunnel and the remaining twenty-nine were captured by hook-and-line downstream of the tunnel and falls. Seven males and 25 females were tagged. The males ranged in fork length from 76 cm to 94 cm and females ranged in size from 74 cm to 82 cm. All fish were tagged between 1140 and 1933 hours.

Of the 32 tags only one failed. Thirteen tagged steelhead trout did not move above the falls. Eighteen fish migrated above the Selway Falls of which five did not use the tunnel to migrate above the falls.

Thirteen steelhead trout migrated above Selway Falls by using the tunnel at some point, nine of which utilized the tunnel only. The remaining four may have used the falls either moving upstream or downstream.

Because of the usage of the tunnel, the next step is to obtain estimates of renovation.

2. Nicholls Engineering of Spokane, WA, is presently estimating the costs of renovating the infrastructure of the Selway Fall fish way as Phase II of this effort. Phase I identified the needs as many of the wooden timbers are in need of replacement.

3. We visited three Selway River tributaries that have irrigation diversions on them. We are in the process of designing fish-friendly structures for two of the streams and obtaining U.S. Forest Service approval to reconstruct the one facility on Ditch Creek. The Running Creek diversion is exclusively on private property and can be modified without U.S. Forest Service approval. The small diversion on North Star Creek has not been utilized for several years and because of the small size of the stream, we do not anticipate rebuilding the structure.

Eight tributaries of the lower Salmon River were also surveyed for potential anadromous fish barriers. Rice, Rock, Skookumchuck, and John Day creeks had no barriers that could be modified to aid in fish migration. Allison, Race, Slate and White Bird creeks each had water diversions on them that could impact juvenile migrations. Retrofitting each of these diversions will require coordination with private landowners and will be pursued.

Tim Cochnauer, PCA leader  
IDFG  
Regional Fishery Manager

#### Stolle Meadows Chinook Rearing Pond PCA35713

All work was completed in mid October. The pond was graded. Concrete inlet and outlet structures were constructed. Chinook parr were reared in the pond this year.

Kim Apperson PCA leader  
IDFG  
Regional Fisheries Biologist

Dagger Falls PCA 35714

I am pleased to report that all work associated with this project has now been completed. All encumbrances have been satisfied and the funding is exhausted. The work progress closely followed the proposal in timing, manpower requested, and materials estimated. On June 30, 2000 the project was officially completed.

Bids to purchase materials for the handrails and gantry were solicited and subsequently purchased to fabricate safety railings around the walkways. Iron was salvaged in November 1999 from the S-32 screen to fabricate an overhead hoist for the trap box. Safety handrails were fabricated and installed on all walk ways above the fishway chambers.

Designs were completed to install two control gates at the inlet of the fishway. England Welding of Salmon was awarded a bid for \$7,078.20 to fabricate the controls. The two control gates were delivered and the Idaho Screen Crew installed them in the upper chamber. The water was shut down in the fishway and the structure was thoroughly inspected. Stop log blocks in several chambers were repaired, debris was cleaned from the entire fishway, and gravel was removed from the upper chamber. Woody debris deposited during the floods was removed. The broken control gates and other rubble was taken to an approved landfill. The existing fish trap was rebuilt, painted, and precision fit to the upper chamber of the fishway.

A ladder was fabricated and installed in the upper chamber to allow access for repairs and maintenance.

The security fence surrounding the structure was repaired and the motor vehicle access gate was realigned and the lock post was replaced.

Bids were received for the aluminum holding tank. The low bid of \$3,985.00 was awarded to Magic HeliArc of Jerome, Idaho. The tank was delivered in May 2000.

A gantry was fabricated utilizing salvaged iron from the old S-32 screen. A new hoist was purchased in June 2000. The structure was installed at Dagger Falls in June as well.

The Dagger Falls fishway can once again be dewatered as needed for inspections as well as to remove and install the trap for evaluation purposes.

Lynn Stratton, PCA Leader  
IDFG  
Anadromous Fish Screen Construction Supervisor