

## Work Task F5: Post-Development Monitoring of Fish Restoration Sites

FY05 Estimate	FY05 Actual	Cumulative Accomplishment Through FY05	FY06 Approved Estimate	FY07 Proposed Estimate	FY08 Proposed Estimate	FY09 Proposed Estimate
\$0	\$0	\$0	\$0	\$65,000	\$70,000	\$95,000

**Contact:** Tom Burke, (702) 293-8711

**Start Date:** FY07 **Expected Duration:** FY55

**Long-term Goal:** Post-development monitoring

**Conservation Measures:** RASU6 and BONY5

**Location:** Reaches 3-6, backwater habitats developed and stocked with RASU and BONY, NV, AZ, and CA

**Purpose:** Monitor fish use of habitat creation sites to provide data for the adaptive management process and to develop management guidelines for created backwater habitats.

**Connections to other Work Tasks (past and future):** All backwaters created in Section E.

**Project Description:** This work will monitor the fish and fish habitat at restoration sites. It is anticipated that fish restoration sites will play various roles for conservation of target fish species throughout the term of the LCR MSCP. Some habitats will be able to develop self-sustaining populations, others may become overpopulated requiring harvest or thinning, and some will require continuous population augmentation. Regardless of which role played, most isolated fish habitats will require some stock rotation to maintain genetic diversity through time. Basic surveys of the fish population and the physical and chemical habitat developed or restored will be required. Fish monitoring will include trapping (hoop, fyke, and minnow traps), trammel netting, electro-fishing, larvae light trapping, and ocular surveys (including scuba and snorkeling where necessary and practical). Water quality assessment will require annual measurements of temperature, oxygen, pH, and conductivity (salinity), as well as periodic monitoring of chemical makeup, including electro ions and selenium.

**FY06 Activities:** This is a new start in FY07. An interagency meeting is planned for September 2006, to scope monitoring parameters.

**Proposed FY07 Activities:** Reclamation and FWS will conduct post-development fish and fish habitat monitoring at Beal Lake. The FWS has developed a fisheries management plan for Beal Lake which was stocked with BONY and RASU in FY06. This plan calls for monthly sampling of physical and chemical conditions in the lake and surveys of the fish populations. Netting and electro-fishing will be used to conduct fish surveys during spring and fall when water temperatures are less stressful to fish. Visual inspections and sonic-graphing with electronic equipment (fish-finders) will be employed during summer months to locate and assess fish

numbers and distributions within the lake. Larval light trapping will be conducted monthly from February to May to assess reproduction and recruitment.