

**COLORADO RIVER RECOVERY PROGRAM
FY-2008 PROPOSED SCOPE OF WORK for:**

Project No: 29c

Wahweap State Fish Hatchery Flood Damage Repair

Lead Agency: Utah Division of Wildlife Resources

Submitted by: Quentin A. Bradwisch

Address: Wahweap State Fish Hatchery
PO Box 410286
Big Water, UT 84741

Telephone: (435) 675-3714

Email: quentbradwisch@utah.gov

Date: 25 March 2007

Category:

- Ongoing project
 Ongoing-revised project
 Requested new project
 Unsolicited proposal

Expected Funding Source:

- Annual funds
 Capital funds
 Other (explain)

I. Title of Proposal: Wahweap State Fish Hatchery Flood Damage Repair

II. Relationship to RIPRAP:

General Recovery Program Support Action Plan

- IV. Manage genetic integrity and augment or restore populations
IV.A. Genetics Management
IV.A.4 Secure and manage genetic stocks in refugia
IV.A.4.a Razorback sucker
IV.A.4.b Middle Green River
IV.A.4.b Bonetail
IV.C. Operate and maintain facilities
IV.C.3 Wahweap State Fish Hatchery

Green and Colorado River Action Plans: Mainstem

- IV.A. Augment or restore populations as needed and as guided by the Genetics Management Plan.
IV.A.1. Develop augmentation plan for the four endangered fishes of the Green and Colorado River.
IV.A.1.c Implement Plan.

III. Background/Rationale and Hypotheses:

Wahweap State Fish Hatchery has demonstrated the ability to raise bonytail and razorback sucker to a tagable size in two growing seasons. High temperatures and longer growing season at Wahweap maximize growth and production of bonytail. This facility has demonstrated as good or better growth than other facilities in the basin. On October 6, 2006 Wahweap State Fish Hatchery experienced a 50 year flood event (40,000 cfs) that damaged three drain lines, washed out flood control gabions, sections of the flood control tide wall, and jeopardized the security fence.

VI. Study Goals, objectives, and End Product:

Goal: Repair the flood damage to the facility that was installed and paid for by the Colorado River Program and protect the ponds that bonytail are reared in for the Program.

Objectives: Stabilize the bank and repair damage that occurred at the ends of the Colorado River funded ponds. Repair the security fence that was damaged to again provide protection from vandalism.

End Products:

- 1) Stable stream banks along drain lines
- 2) Intact drain lines that will not cause further damage with normal use.
- 3) Provide a protected environment to rear bonytail.

V. Study area:

Wahweap Hatchery, Big Water UT.

VI. Study Methods and Approach:

Consult with engineers and issue a contract for repairs in compliance with State purchase requirements.

VII. Task Description and Schedule:

Have the repairs completed in conjunction with a stream bank-hardening (restoration) project being funded by Utah Division of Wildlife Resources (UDWR) and Natural Resource Conservation Service (NRCS) in the spring/summer of 2007. NRCS and the UDWR are combining to fund a \$1,200,000 bank-hardening project to prevent future flood damage. This project will not repair damage that was caused but put large structures in place to deflect stream flow and protect vulnerable areas.

VIII. FY-2008 work

Budget

262' of 6' chain link fence with 1' of barb wire @\$21.00/ft	\$ 5,502.00
100' of 12' tide wall	\$13,216.50
100' of 24" drain pipe@ \$60/ft	\$ 6,000.00
50' of (9'x3'x3') gabion baskets @ \$8.62/ft	\$ 431.00
<u>Transport of trackhoe to site</u>	<u>\$ 875.00</u>
Sub Total	\$26,024.50
	<u>+ 20% overhead</u>
	<u>\$ 5,204.90</u>
 TOTAL	 \$31,229.40