

**FY-2002-2003 PROPOSED SCOPE OF WORK for:**  
Price-Stubb Diversion Dam Fish Passage Facility

**Project #: C-5**

Lead Agency: Bureau of Reclamation  
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Category:	Expected Funding Source:
<input checked="" type="checkbox"/> Ongoing project	<input type="checkbox"/> Annual or <input type="checkbox"/> O&M funds
<input type="checkbox"/> Ongoing-revised project	<input checked="" type="checkbox"/> Capital funds
<input type="checkbox"/> Requested new project	<input type="checkbox"/> Other (explain)
<input type="checkbox"/> Unsolicited proposal	

I. Title of Proposal:

Price-Stubb Diversion Dam Fish Passage Facility

**Note: \$30K budget for FY 02 to gather/analyze data on landslide stability. Need for additional funds dependant on FERC decision and hydroproject proponent decision.**

II. Relationship to RIPRAP:

Colorado River Action Plan: Mainstem II.B.2 Restore fish passage at Price-Stubb

III. Study Background/Rationale and Hypotheses:

The 8-foot-high Price-Stubb Diversion Dam is owned by the Palisade and Mesa County Irrigation Districts. Construction of the dam was completed in 1911. In 1919, the dam was abandoned following construction of the Grand Valley Project Diversion Dam. The dam is located on the Colorado River, near Palisade CO, approximately 3 miles upstream of the Grand Valley Irrigation Company Diversion Dam and 5 miles downstream of Grand Valley Project Diversion Dam. All three of these dams prevent upstream movement of native and non-native fish; however, a fish passage facility was constructed at the Grand Valley Irrigation Company Diversion Dam in 1997. The Upper Colorado River Recovery Implementation Program (Program) Biology Committee has identified restoration of fish passage at these three dams as an important component of recovery efforts for Colorado pikeminnow and razorback sucker. All passage alternatives will emphasize minimization of fish mortality.

IV. Study Goals, Objectives, End Product:

Goal: Restore fish passage at the Price-Stubb Diversion Dam.

Objectives:

1. Conduct preconstruction planning and environmental compliance activities leading to selection of a preferred alternative.
2. Prepare designs, specifications and cost estimates leading to construction contract award.
3. Provide construction management services resulting in construction of the fish passage facility.

- V. Study area: The Price-Stubb Diversion Dam is located on the Colorado River, near Palisade CO, approximately 3 miles upstream of the Grand Valley Irrigation Company Diversion Dam and 5 miles downstream of Grand Valley Project Diversion Dam.

VI. Study Methods/Approach

A public scoping process was conducted to identify issues and concerns regarding the proposal to restore fish passage at Price-Stubb Diversion Dam. A range of alternatives was formulated to provide fish passage and address issues and concerns. The alternatives were presented and analyzed in a Draft Environmental Assessment (DEA) dated April 1999. The DEA identified partial dam removal as the preferred alternative. Since release of the DEA an additional alternative was identified which more fully addresses issues and concerns. This alternative consists of building a rock ramp structure on the downstream face of the dam.

The Federal Energy Regulatory Commission (FERC) has recently (September 13, 2001) approved an application for the proposed hydroelectric power plant at the Price-Stubb Diversion Dam. The applicant has four months to commence project construction. However, at this time it is unclear if the applicant will proceed with construction of the hydroelectric power plant. Construction of the power plant is incompatible with partial dam removal and the rock ramp structure alternatives and would require reevaluation of fish passage alternatives.

If the applicant proceeds with construction of the power plant, construction of the fish passage facility and a fish screen will be the responsibility of the project proponent. If the applicant does not proceed with construction of the power plant a supplemental DEA will need to be prepared to reevaluate fish passage alternatives. Assuming a Finding of No Significant Impact (FONSI) a Final Environmental Assessment (FEA) will be prepared. If significant impacts are identified an Environmental Impact Statement (EIS) will be prepared.

Following completion of this planning and permitting phase, final designs, specifications and cost estimates will be prepared and a contract awarded to construct the preferred alternative.

VII. Task Description and Schedule

1. Continue to monitor/model landslide instrumentation in order to address concerns expressed by the Union Pacific Railroad (Ongoing)
2. Conduct public scoping process (FY 2002, assumes applicant does not proceed with construction of the power plant)
3. Prepare supplemental DEA. (FY 2002, assumes applicant does not proceed with construction of the power plant)
4. Assuming FONSI prepare FEA (FY 2002, assumes applicant does not proceed with construction of the power plant)
5. If significant impacts associated with the preferred alternative are identified prepare EIS. (FY 2002 - FY 2003, assumes applicant does not proceed with construction of the power plant)
6. Prepare final designs, specifications, cost estimates and award construction contract. Note, no O&M contract would be required for either the partial dam removal or rock ramp structure alternatives.(FY 2003, assumes FONSI/FEA and applicant does not proceed with construction of the power plant)
7. Construct fish passage (FY 2003, assumes FONSI/FEA and applicant does not proceed with construction of the power plant)
8. Evaluate fish passage facility and modify if required (FY 2004, assumes FONSI/FEA and applicant does not proceed with construction of the power plant)

VIII. FY-2002 Work

Task 1. Monitor/model landslide instrumentation

- Deliverables/Due Dates - Geotechnical data on landslide stability at the Price-Stubbs Division Dam
- Budget
 

- Labor - 15 work weeks	\$29,000
- Travel	\$200
- Equipment	\$800
- Other	<u>\$0</u>

-	Total	\$30,000
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Task 2. Conduct public scoping process

- Deliverables/Due Dates - Summary of issues, concerns and comments - schedule dependent on FERC decision
- Budget - Dependent on FERC licensee decision therefore no funding requested at this time
 

-	Labor - 2 work weeks	\$3,000
-	Travel	\$0
-	Equipment	\$0
-	Other	<u>\$0</u>
-	Total	\$3,000

Task 3. Prepare supplemental DEA

- Deliverables/Due Dates - Supplemental DEA - schedule dependent on FERC decision
- Budget - dependent on FERC licensee decision therefore no funding requested at this time
 

-	Labor - 2 work weeks	\$4,000
-	Travel	\$0
-	Equipment	\$0
-	Other	<u>\$0</u>
-	Total	\$4,000

Task 4. Prepare FEA/FONSI

- Deliverables/Due Dates - FEA/FONSI - schedule dependent on FERC licensee decision
- Budget - dependent on FERC licensee decision therefore no funding requested at this time
 

-	Labor - 8 work weeks	\$15,000
-	Travel	\$0
-	Equipment	\$0
-	Other	<u>\$0</u>
-	Total	\$15,000

FY 2002 Total.....\$30,000

FY - 2003 Work

Task 6. Prepare final designs, specifications, cost estimates and award construction contract

- Deliverables/Due Dates - Construction contract - schedule dependent on FERC licensee decision
  
- Budget - dependent on type of structure selected as preferred alternative and FERC licensee decision
  - Labor \$0
  - Travel Government vehicle \$0
  - Equipment \$0
  - Other \$0
  - Total \$0

Out Year Funding Needs - Current out year capital funding allocation associated with fish passage facilities at Price-Stubb dam is \$1,620,000. Actual capital and annual O&M costs are dependent on numerous variables including alternative selected, rate of inflation and economic condition of the construction industry.

IX. Budget Summary - See current Capital Project Discussion Work Plan

X. Reviewers

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XI. References

\_\_\_\_\_. 1999. Draft Environmental Assessment, Price-Stubb Fish Passage. Bureau of Reclamation, Grand Junction, CO. April 1999