FY-2006 and FY 2007 PROPOSED SCOPE OF WORK for: Tusher Wash Fish Screen Facility

Project #: C-28

Lead Agency: Bureau of Reclamation
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Date: May 19, 2005

Category: Ongoing project
Expected Funding Source: Annual or O&M funds

I. Title of Proposal: Tusher Wash Fish Screen Facility

II. Relationship to RIPRAP:

Green River Action Plan: Mainstem
II.B.2 Screen Tusher Wash diversion to prevent endangered fish entrainment

III. Study Background/Rationale and Hypotheses:

The Tusher Wash Diversion Dam is owned and operated by the Green River Canal Company. The dam is located on the Green River, near Green River, Utah. The dam diverts water from the Green River for irrigation and hydroelectric power generation. The dam is not an impediment to upstream movement of fish at most flow rates but entrainment of native fish has been documented. In response to this problem, the Upper Colorado River Recovery Implementation Program (Program) has identified screening the Tusher Wash Diversion Dam canal system as an important component of recovery efforts for Colorado pikeminnow and razorback sucker.

The Program has adopted 3/32” wedge wire screening material as a standard as it prevents entrainment of a wide range of fish life stages, minimizes operation and maintenance problems and represents proven state-of-the-art technology. All screening will emphasize minimization of fish mortality and operational impacts to the canal system.

IV. Study Goals, Objectives, End Product:

Goal: Screen Tusher Wash Diversion Dam canal system.
Objectives:

1. Conduct preconstruction planning and environmental compliance activities leading to selection of a preferred alternative.

2. Prepare designs, specifications, O&M contract and cost estimates leading to construction contract award.

3. Provide construction management services resulting in construction of the fish screen facility.

V. Study area: The dam is located on the Green River, near Green River, Utah.

VI. Study Methods/Approach

A range of alternatives will be formulated to provide screening facilities and address issues and concerns. The alternatives will be presented and analyzed in a Draft Environmental Assessment (DEA). The Program Director’s staff and Biology and Water Acquisition Committees will be consulted to provide technical input in the process leading to selection of a preferred alternative. Following completion of the 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 (Schedule dependent on resolution of ongoing legal dispute)

1. Conduct geotechnical investigations (Complete)

2. Formulate range of alternatives (Complete)

3. Prepare DEA

4. Assuming Finding of No Significant Impact (FONSI) prepare Final Environmental Assessment (FEA)

5. Negotiate easements and O&M contract

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

7. Construct fish screen

8. Operate and evaluate fish screen and modify if required

9. Long term operation and maintenance of fish screen
VIII. FY-2006 Work

Task 3 - Prepare Environmental Assessment
Deliverable: Environmental Assessment
Budget:
- Labor - 8 work weeks: 18,000
- Travel: 300
- Equipment: 200
- Other: 500
Total: 19,000

Task 4 - If applicable, final EA and FONSI
Deliverables: FONSI
Budget:
- Labor - 3 work weeks: 6,800
- Travel
- Equipment
- Other: 200
Total: 7,000

Task 5 - Negotiate easements and O&M contract
Deliverable: Temporary and permanent easements and O&M Agreement
Budget:
- Labor O&M Agreement - 4 work weeks: 11,000
- Labor Easement Surveying - 3 work weeks: 10,000
- Appraisal: 5,000
- Travel: 1,000
- Equipment
- Other: 200
Total: 27,000

Task 6 - Prepare design and specifications
Deliverable: Design and specifications, and design summary
Budget:
- Labor - 104 work weeks: 400,000
- Travel: 5,500
- Equipment: 7,500
- Other: 500
Total: 413,000
Task 7 - Construct Fish Passage
Deliverables: Completed fish passage
Budget

- Inspection Labor: 75,000
- Materials testing: 20,000
- Surveying: 20,000
- Contract Ad: 20,000
- Travel: 31,000
- Equipment: 5,000
- Other - Construction contract: 2,163,000
- Total: 2,334,000

FY-2007 Work

Task 7 - Construct Fish Screen
Deliverable: Fish Screen
Budget

- Labor - Inspection 39 work weeks: 75,000
- Materials testing: 20,000
- Surveying: 15,000
- Travel: 24,000
- Contract Ad: 20,000
- Equipment: 5,000
- Other - Construction contract: 4,457,000
- Total: 4,616,000

Task 8 - Monitor and modify if required
Deliverable
Budget

- Labor: 30,000
- Travel
- Equipment
- Other: 300,000
- Total: 330,000

IX. Budget Summary -

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<tr>
<th>Task</th>
<th>2006</th>
<th>2007</th>
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X. Reviewers

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XI. References