

**COLORADO RIVER RECOVERY PROGRAM  
FY-2010-2011 PROPOSED SCOPE-OF-WORK for:**

**Project No.: New**

Recovery Program Participation / Contribution to a Genetic Biocontrol Symposium

Lead Agency: PD Office

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**Category:**

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

**Expected Funding Sources:**

- Annual funds
- Capital funds
- Other (explain)

Title of Proposal: Recovery Program Participation / Contribution to a Genetic Biocontrol Symposium

I. Relationship to RIPRAP:

General Recovery Program Support Action Plan

III.A Reduce negative interactions between nonnative and endangered fishes.

III.A.2.G. Evaluate other methods for controlling nonnative fishes, including manipulation of flow and temperature, use of fish attractants, pathogens, genetic modification, and chemical piscicides. (YS N-1,2,3,4)

II. Study Background/Rationale and Hypotheses:

The Upper Colorado River Endangered Fishes Recovery Implementation Program (Recovery Program) recognizes that a variety of methodologies will likely be needed to reduce the threat of nonnative species. Genetic biocontrol has shown promise in other parts of the world and with other invasive species. This may be a systemic control mechanism that our Recovery Program could use in the future.

Dr. Anne Kapuscinski, University of Minnesota, and others will chair an [International Symposium on Genetic Biocontrol of Invasive Fish](#) to be held in Minneapolis, Minnesota, USA, during the summer of 2010. This international symposium will address the potential and risk assessment of genetic biocontrol of established invasive finfish species. Genetic biocontrol refers to release of genetically manipulated organisms designed to disrupt the survival or reproduction of a targeted invasive species. Genetic biocontrol strategies have the capability to be more

effective and targeted than current control methods, all of which have major flaws. Turning genetic biocontrol methods into practical tools, however, requires identifying and successfully addressing obstacles and concerns before implementation. This conference will therefore create a roadmap for risk assessment of genetic biocontrol of aquatic invasive species.

Through this scope of work the Recovery Program will contribute funds to support the development and implementation of this international symposium.

III. Study Goals, Objectives, End Product:

Goal - Conserve and recover the endangered fish species of the Colorado River system.

Objective – Contribute to an international symposium that explores the development and associated risks of genetic biocontrol .

End Product – Symposium proceedings.

IV. Study Area

The Upper Colorado River basin

V. Study Methods/Approach – N/A

VI. Task Description and Schedule – N/A

VIII. FY-2010 Work

Budget by task:

One Time Contribution of Recovery Program Annual Funds to <u><i>International Symposium on Genetic Biocontrol of Invasive Fish</i></u>	\$ 5,000
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Total	\$5,000
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VII. Program Budget Summary

FY-2010 \$5,000