

# **Fish and In-Stream Habitat (FISH) Plan**

## TABLE OF CONTENTS

### **EXECUTIVE SUMMARY**

#### **1.1 INTRO: PURPOSE AND SCOPE OF FISH PLAN**

- 1.2. FISH Plan Study Area
- 1.3. Background
- 1.4. Related Plans
- 1.5. Related Initiatives

#### **2.0 GOALS AND OBJECTIVES**

- 2.1. Decision Process
- 2.2. Desired Outcomes for Species of Priority Management Concern

#### **3.0 CURRENT STATUS OF LOWER AMERICAN RIVER ECOSYSTEM**

- 3.1. Watershed Development and Migration Barriers
- 3.2. Hydrology
- 3.3. Geomorphology
- 3.4. Aquatic Habitat
- 3.5. Fish
- 3.6. Water Quality
- 3.7. Conclusions

#### **4.0 CONCEPTUAL MODELS OF LOWER AMERICAN RIVER ECOSYSTEM STRUCTURES, FUNCTIONS, AND PROCESSES**

- 4.1. Identification of Stressors and Interconnections within the Lower American River Ecosystem

#### **5.0 CONCEPTUAL MODELS OF RESTORATION PROCESSES**

#### **6.0 RECOMMENDED MANAGEMENT AND RESTORATION ACTIONS**

- 6.1. Selection Criteria
- 6.2. Recommendations
- 6.3. Second Priority Actions

#### **7.0 LOWER AMERICAN RIVER SCIENCE-BASED MANAGEMENT FRAMEWORK**

- 7.1. Goal and Objectives of the Proposed Science Framework
- 7.2. Science Framework Components
- 7.3. Science Framework Management Structure
- 7.4. Adaptive Management Process
- 7.5. Annotated Outline for the River-wide Ecological and Biological

#### **8.0 FISH PLAN IMPLEMENTATION STRATEGY**

- 8.1. Administrative Arrangements to Support Implementation
- 8.2. Lead Agencies' Roles and Responsibilities
- 8.3. Potential Funding Sources
- 8.4. Cost Estimates and Funding Status
- 8.5. Timeline for Restoration and Management Actions
- 8.6. Technical Assistance Needed to Develop, Update, Administer and Implement the Plan and Monitor Results

## **8.7. Overcoming Potential Challenges to Implementation**

### **9.0 LITERATURE CITED**

#### APPENDICES

**Appendix A & B**  
**Appendix C**