

**NMFS PROPOSED OUTLINE FORMAT
FOR THE
BUREAU OF RECLAMATION'S BIOLOGICAL ASSESSMENT
Draft for discussion purposes only
10/31/2018**

List of Acronyms

List of Tables

List of Figures

- 1. INTRODUCTION**
- 1.1 Background
- 1.2 Coordinated Operations Agreement
- 1.2.1 Key Consultation Considerations
- 1.3 Consultation History
- 1.4 Proposed Federal Action
- 1.5 Interrelated and Interdependent Actions
- 1.6 Action Area (See NMFS 2009 BiOp)
- 2. ENDANGERED SPECIES ACT**
- 2.1 Not Likely to Adversely Affect Determinations
 - *Provide description and analysis for each species/critical habitat where the potential effects are determined to be NLAA. These species/critical habitats do not need to be discussed or analyzed further in the biological assessment.*
- 2.2 Analytical Approach
- 2.2.1 Introduction
- 2.2.2 Legal and Policy Framework
- 2.2.3 General Overview of the Approach and Models Used
- 2.2.4 Evidence Available for the Analysis
- 2.2.5 Deconstructing the Action
- 2.2.6 Integrating the Effects
- 2.2.7 Presentation of the Analysis in this Biological Assessment
- 2.3 Rangewide Status of the Species and Critical Habitat
- 2.3.1 Species and Critical Habitat Likely to be Adversely Affected by the Proposed Action
- 2.3.1.1 Chinook Salmon
- 2.3.1.1.1 Winter-run Chinook salmon
- 2.3.1.1.2 Spring-run Chinook salmon
- 2.3.1.2 CCV Steelhead
- 2.3.1.3 sDPS Green Sturgeon
- 2.3.1.4 Southern Resident Killer Whales
- 2.4 Environmental Baseline
- 2.4.1 Species and Critical Habitat Likely to be Adversely Affected by the Proposed Action
- 2.4.1.1 Chinook Salmon
- 2.4.1.1.1 Winter-run Chinook salmon
- 2.4.1.1.2 Spring-run Chinook salmon
- 2.4.1.2 CCV Steelhead
- 2.4.1.3 sDPS Green Sturgeon
- 2.4.1.4 Southern Resident Killer Whales
- 2.5 Effects of the Action

- 2.5.1 Deconstructed Action
- 2.5.2 Trinity River Division
 - 2.5.2.1 Deconstruction of the Trinity River Division Action
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.3 Shasta Division
 - 2.5.3.1 Deconstruction of the Shasta Division Action Component
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.4 American River Division
 - 2.5.4.1 Deconstruction of the American River Division Action Component
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.5 Delta Division
 - 2.5.5.1 Deconstruction of the Delta Division Action Component
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.6 East Side River Division
 - 2.5.6.1 Deconstruction of the East Side Division Action Component
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.7 Fish Passage Program
 - 2.5.7.1 Deconstruction of the Fish Passage Program Component
 - 2.4.2.1.1 Assessment of Species Exposure to the Action
 - 2.4.2.1.2 Assessment of the Species Response to the Action
- 2.5.7 Climate Change Analysis
- 2.5 Interrelated and Interdependent Effects
- 2.6 Cumulative Effects
- 2.7 Integration and Synthesis
 - 2.7.1 Summary of the Status of the Species and Critical Habitat
 - 2.7.2 Summary of the Effect of the Environmental Baseline
 - 2.7.3 Summary of the Interrelated and Interdependent Effects
 - 2.7.4 Summary of the Cumulative Effects
 - 2.7.5 Summary of the Additive Effects of the Effects of the Environmental Baseline + Effects of the Action + Interrelated and Interdependent Effects + Cumulative Effects)
- 2.8 Action Agency Determination of Effects
- 3. MAGNUSON-STEVENSON FISHERY CONSERVATION AND MANAGEMENT ACT ESSENTIAL FISH HABITAT RESPONSE**
 - 3.1 Essential Fish Habitat Affected by the Proposed Action
 - 3.2 Adverse Effects of the Proposed Action on Essential Fish Habitat
- 4. LITERATURE CITED**
- 5. APPENDICES**