

Chapter 4

Analyses of Environmental Effects

This chapter provides environmental analyses of the Project alternatives on a resource-specific, topical basis. Components of each section typically include:

- an overview of differences from prior Project environmental documents;
- a summary of impacts;
- a summary of changes, new information, and new circumstances;
- existing conditions; and
- environmental effects, including methods and mitigation measures.

As described in Chapter 2, the Proposed Project is now represented by Alternative 2. As a result, the environmental effects discussions of each resource section present the impacts of Alternative 2 first, followed by the discussions of Alternative 1, Alternative 3, and the No-Project Alternative.

The environmental analysis from the 2001 EIR and 2001 EIS was substantially upheld from challenge. Consequently, as introduced in Chapter 1, the approach for this Place of Use EIR is to efficiently and appropriately apply the information from the preceding documents, while updating the sections where necessary according to the current Project, available information, and circumstances. The sections have been prepared to incorporate relevant information from those documents by reference while avoiding repetition to result in a focused environmental analysis.

The sections are organized as follows:

- Section 4.1, Water Supply
- Section 4.2, Water Quality
- Section 4.3, Flood Control and Levee Stability
- Section 4.4, Utilities and Highways
- Section 4.5, Fishery Resources
- Section 4.6, Vegetation and Wetlands
- Section 4.7, Wildlife
- Section 4.8, Land Use and Agriculture
- Section 4.9, Recreation and Visual Resources

- Section 4.10, Traffic and Navigation
- Section 4.11, Cultural Resources
- Section 4.12, Mosquitoes and Public Health
- Section 4.13, Air Quality
- Section 4.14, Climate Change
- Section 4.15, Noise