

## 4.0 INTRODUCTION

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This Chapter consists of 19 sections, each of which presents the analysis of the alternatives and components within an environmental discipline. Each section includes the following information:

- A short introduction.
- Impacts Evaluated in Other Sections: A summary of where to find topics associated with the section's analysis which are addressed elsewhere in the EIR/EIS.
- Affected Environment (Setting): A description of the existing conditions for each environmental discipline. The setting acts as a baseline to which the analysis compares the effects of the alternatives and components.
- Evaluation Criteria with Point of Significance: A table presenting the criteria used to determine specific impacts, measurements used to determine whether an impact is "significant," and the point at which the impact becomes significant (See Glossary, in Volume III, for a definition of "Significant.") The source and justification for each criterion is also identified in the table.
- Methodology: A brief description of how the impact analysis was done.
- Environmental Consequences (Impacts) and Recommended Mitigation: A presentation of the results of the environmental analysis for each discipline, including the identification of impacts, the determination regarding significance, the description of mitigation measures proposed to avoid or lessen impacts, and whether mitigation will reduce the effects to less than significant. These analyses are presented in the following order:
  - Component Impact Analysis; Each component's environmental impacts are assessed for each criterion. When impacts are identified a table is provided with the evaluation criterion, the point of significance, the impact the component would have on the environment, the type of impact (construction, operation and maintenance, permanent), and the level of significance. The level of significance identifies the level of the impact both before and after mitigation. For each criterion, an analysis of the expected impacts is presented and, if necessary mitigation measures for each impact are proposed. The complete text of each mitigation measure is presented in Chapter 2. No mitigation is proposed for impacts of the No Action Alternative, because CEQA requires mitigation only upon approval of a project.
  - Impact and mitigation numbering:

Impact:	<div><div>ABC</div><div><div></div><div></div><div></div></div><div><b>1.6.7. Will the pump station component convert public open space to project facilities?</b></div></div>	D
Analysis:	<div><div><i>Significant; Alternative 4.</i></div><div><div>The site for pump station G-3 (Alternative 4) along Pine Flat Road is located on a property for which the Sonoma County Agricultural Preservation and Open Space District holds conservation easements...,</div><div><i>No Impact; Alternatives 1, 2, 3, and 5.</i></div><div>Pump stations for alternatives 2 and 3 are not located within a public open space.</div><div>Alternatives 1 and 5 do not have a pump station component.</div></div></div>	E
Mitigation:	<div><div><i>Alternative 4.</i></div><div><div><div>FGH</div><div><div></div><div></div><div></div></div><div><b>2.3.1. Replacement of Open Space Easements.</b></div></div></div></div>	I
After Mitigation:	<div><div><i>Alternatives 1, 2, 3 and 5. No mitigation is needed.</i></div><div><div><i>Less than Significant after Mitigation; Alternative 4.</i></div><div>Mitigation Measure 2.3.1 reduces this impact to a level below significance by providing funding to the Open Space District for the replacement on a one-for-one basis of existing ...</div></div></div>	J

**Key:**

- A - identifies the section (topic area) of the EIR/EIS: See Table of Contents for section numbering.
- B - identifies the component that is being evaluated.
- C - identifies the evaluation criterion.
- D - identifies the impact being evaluated.
- E - the determination of significance and explains the analysis and result by alternative.
- F - indicates Chapter 2, Mitigation Monitoring Program.
- G - identifies the section number of Chapter 2.
- H - identifies the mitigation number in Chapter 2.
- I - identifies mitigation proposed and indicates the mitigation number and type of mitigation. The

full text of the mitigation measure is in Chapter 2.

- J - describes the effectiveness of the mitigation measure and the resulting level of significance.

**Component Numbering:**

- 1 = No Action (No Project) Alternative
- 2 = Headworks Expansion Component
- 3 = Urban Irrigation Component
- 4 = Pipeline Component
- 5 = Storage Reservoir Component
- 6 = Pump Station Component
- 7 = Agricultural Irrigation Component
- 8 = Geysers Steamfield Component
- 9 = Discharge Component

- Cumulative Impact Analysis: Cumulative impacts are defined as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. These analyses evaluate the impacts from cumulative projects when added to Project impacts. The cumulative projects study area is defined in Section 3.6 of the Description of Existing System and Alternatives. Cumulative projects considered in this evaluation are identified in the Cumulative Projects List (Appendix D-31 of the Draft EIR/EIS).
- Summary of Significant Impacts and Mitigation Measures: A table which identifies all component impacts determined to be significant before mitigation and the mitigation measures proposed for each impact.
- Summary of Impacts by Alternative: A table which aggregates the results of the component impact analysis by alternative.

An exception to this format is the Socio-economics section, 4.19, which analyzes impacts only by alternative, not by component. This is necessary because the effects of the alternatives, taken as a whole are the issues of concern.