

1 Introduction

This Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) has been prepared to respond to comments received on the Draft EIR/EIS for the Alternative Intake Project, which is a drinking water quality improvement project proposed for implementation by the Contra Costa Water District (CCWD). The Final EIR/EIS has been prepared on behalf of CCWD and the U.S. Department of the Interior, Bureau of Reclamation (Reclamation) in accordance with the requirements of the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). CCWD is the lead agency under CEQA and Reclamation is the lead agency under NEPA.

On May 3, 2006, CCWD and Reclamation released the Draft EIR/EIS for public review and comment. The Draft EIR/EIS evaluated the potential environmental effects of the Proposed Action and four alternatives: No-Action Alternative; Alternative 2, Indirect Pipeline Route; Alternative 3, Modified Operations Alternative; and Alternative 4, Desalination Alternative. Three public hearings to receive public input on the Draft EIR/EIS were held at the following locations: Concord (June 6, 2006), Antioch (June 7, 2006), and Sacramento (June 8, 2006). The public hearings were recorded and a transcript was made; no comments were received at the hearings. The comment period closed on June 26, 2006¹. Written comments were received from Federal, State, and local agencies; and individuals.

Reclamation and CCWD considered the comments received on the Draft EIR/EIS. The comments received did not warrant substantive changes in the Draft EIR/EIS. Therefore, the Final EIR/EIS consists of the entire Draft EIR/EIS (Volumes I, II, and III) and the comments, responses to comments, and revisions to the Draft EIR/EIS (Volume IV).

1.1 Purpose of the Final EIR/EIS

Both CEQA and NEPA require a lead agency that has completed a Draft EIR or EIS to consult with and obtain comments from public agencies that have legal jurisdiction with respect to the proposed action, and to provide the general public with opportunities to comment on the Draft EIR or EIS. This Final EIR/EIS has been prepared to respond to comments received from agencies and members of the public on the Draft EIR/EIS for the Alternative Intake Project.

¹ The U.S. Environmental Protection Agency (EPA), the State Water Resources Control Board (SWRCB), and the San Luis & Delta-Mendota Authority (SLDMA) and Westlands Water District (WWD) submitted comments on July 17, July 18, and August 22, 2006, respectively. These comment letters and responses are included in Chapter 3, “Comments and Individual Responses.”

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1.2 CEQA and NEPA Requirements for Responding to Comments

The State CEQA Guidelines state that written responses to comments received on the Draft EIR must describe the disposition of significant environmental issues. In particular, the major environmental issues raised when the lead agency's position is at variance with recommendations and objections raised in the comments must be addressed.

NEPA requires that the Final EIS include and respond to all substantive comments received on the Draft EIS (40 CFR 1503.4). Lead agency responses may include the need to:

- ▶ modify the proposed action or alternatives;
- ▶ develop and evaluate new alternatives;
- ▶ supplement, improve, or modify the substantive environmental analyses;
- ▶ make factual corrections to the text, tables, or figures contained in the Draft EIS; or
- ▶ explain why no further response is necessary.

Additionally, the Final EIS must discuss any responsible opposing view that was not adequately discussed in the Draft EIS and must indicate the lead agency's response to the issues raised.

1.3 Requirements for Certification and Future Steps in Project Approval

The EIR/EIS is intended to be used by the CCWD Board of Directors and by Reclamation when considering approval of the Proposed Action or an alternative to the Proposed Action. The CCWD Board will use the EIR/EIS to consider approval of the entire project. Reclamation will use the EIR/EIS to consider approval of an additional point of diversion, pursuant to CCWD's water service contract with Reclamation. CCWD and Reclamation will also use the EIR/EIS to petition SWRCB for changes to their existing water rights.

In accordance with CEQA and NEPA, the Draft EIR/EIS was circulated for public and agency review and comment on May 3, 2006. The comment period closed on June 26, 2006 (see previous note regarding EPA, SWRCB, and SLDMA/WWD). Comments were received from Federal, State, and local agencies; and individuals. Three public hearings to receive public input on the Draft EIR/EIS were held during the review period at the following locations: Concord (June 6, 2006), Antioch (June 7, 2006), and Sacramento (June 8, 2006). The public hearings were recorded and a transcript was made. Following completion of the Final EIR/EIS, CCWD's Board of Directors will hold a public meeting to consider certification of the Final EIR and to decide whether or not to approve the

Proposed Action or an alternative. A Notice of Determination (NOD) will then be filed. If the CCWD Board approves the Proposed Action (or an alternative), it will prepare and adopt written findings of fact for each significant environmental impact identified in the EIR/EIS; a Statement of Overriding Considerations, if needed; and a Mitigation Monitoring and Reporting Program.

Reclamation will circulate the Final EIS for 30 days prior to taking action on the project and issuing its Record of Decision (ROD). The ROD will address the decision, alternatives considered, the environmental preferable alternative, relevant factors considered in the decision, and mitigation and monitoring.

Based on the available information, Alternative 3, Modified Fisheries Alternative, is selected under NEPA as the environmentally preferred alternative. Alternative 3 is also the environmentally superior alternative under CEQA.

1.4 Organization and Format of the Final EIR/EIS

This Final EIR/EIS is organized as follows:

- ▶ **Chapter 1, “Introduction,”** describes the purpose and content of the Final EIR/EIS.
- ▶ **Chapters 2, “Master Responses,”** presents responses to environmental issues raised in multiple comments. These have been termed “master responses.” They are organized by topic to provide a more comprehensive response than may be possible in responding to individual comments, and so that reviewers can readily locate all relevant information pertaining to an issue of concern.
- ▶ **Chapter 3, “Comments and Individual Responses,”** contains a list of all agencies and persons who submitted comments on the Draft EIR/EIS during the public review period, copies of the comment letters received, cross references to relevant master responses, and individual responses to the comments that are not addressed in master responses.
- ▶ **Chapter 4, “Revisions to the Draft EIR/EIS,”** presents revisions to the Draft EIR/EIS text based on issues raised by comments, clarifications, or corrections. Changes in the text are signified by strikeouts where text is removed and by italics where text is added.
- ▶ **Chapter 5, “References,”** includes the references to documents used to support the comment responses.
- ▶ **Chapter 6, “List of EIR/EIS Preparers,”** lists the individuals who assisted in the preparation of this Final EIR/EIS.

As noted above, the Draft EIR/EIS consisted of three volumes. Volume I contained the EIR/EIS text, and Volumes II and III contained the appendices. This document is Volume IV of the EIR/EIS. Together, the four volumes constitute the Final EIR/EIS.

1 Introduction

1.5 Summary of Impacts and Mitigation Measures

Table 1-1 summarizes the environmental impacts of the Proposed Action and alternatives, the level of significance of each impact before mitigation, recommended mitigation measures, and the level of significance of each impact after mitigation.

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Delta Water Resources				
Impact 4.2-a: Long-term Changes in Delta Water Supplies	1-4	Less than significant	None required	Less than significant
Impact 4.2-b: Long-term Changes in Delta Water Quality that Cause Violations of Delta Water Quality Standards	1-4	Less than significant	None required	Less than significant
Impact 4.2-c: Long-term Changes that Result in Substantial Water Quality Degradation that Would Adversely Affect Beneficial Uses or Substantially Change Delta User's Operations	1-4	Less than significant	None required	Less than significant
Impact 4.2-d: Long-term Changes in Delta Water Levels	1-4	Less than significant	None required	Less than significant
Delta Fisheries and Aquatic Resources				
Impact 4.3-a: Intake Construction and Increased Sedimentation, Turbidity, and Contaminants	1-3	Less than significant	Mitigation Measure 4.3-a (Alternatives 1-3): Minimize Turbidity, Sedimentation, and Other Water Quality Impacts during Construction	Less than significant
Impact 4.3-b: Underwater Sound Pressure Impact from Cofferdam Installation	1-3	Potentially significant	Mitigation Measure 4.3-b (Alternatives 1-3): Implement Measures to Reduce and/or Avoid Underwater Sound Pressure Impacts	Less than significant
Impact 4.3-c: Potential Chemical Spill During Construction	1-3	Potentially significant	Mitigation Measure 4.3-c (Alternatives 1-3): Develop and Implement a Hazardous Materials Control and Spill Prevention and Response Plan to Prevent/Avoid Hazardous Materials Impacts	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.3-d: Potential Fish and Macroinvertebrate Stranding During Dewatering of the Cofferdam	1-3	Potentially significant	Mitigation Measure 4.3-d (Alternatives 1-3): Develop and Implement a Fish Rescue Program during Construction to Prevent Stranding in the Cofferdam	Less than significant
Impact 4.3-e: Aquatic Habitat Loss at Intake Structure Site Along Victoria Canal Shoreline	1-3	Less than significant	Mitigation Measure 4.3-e (Alternatives 1-3): Compensate for the Permanent Loss of Shallow-water Aquatic Habitat at Victoria Canal Intake Site	Less than significant
Impact 4.3-f: Hydraulic Modifications to Habitat in Victoria Canal and Adjacent to the Proposed Intake	1-3	Less than significant	None required	Less than significant
Impact 4.3-g: Fish Losses through Entrainment and Impingement at CCWD Intakes	1-3	Beneficial	Mitigation Measure 4.3-g (Alternatives 1-3): Minimize Fish Entrainment and Impingement at the New Victoria Canal Intake	Beneficial
Impact 4.3-h: Effects on Delta Fisheries and Aquatic Habitat as Indicated by Changes in Key Hydrologic Indicators	1-3	Less than significant	None required	Less than significant
Impact 4.3-i: Periodic Maintenance Dredging and Associated Effects on Fish	1-3	Less than significant	None required	Less than significant
Impact 4.3-a: Fish Losses Through Entrainment and Impingement at CCWD Intakes	4	Potentially significant	Mitigation Measure 4.3-a (Alternative 4): Minimize Impacts to Larval Delta Smelt and Juvenile Striped Bass at Mallard Slough Intake Through Fish Monitoring and Operational Limitations	Less than significant
Impact 4.3-b: Saline Discharges from the New Concentrate Disposal Pipeline	4	Potentially significant	Mitigation Measure 4.3-b (Alternative 4): Reduce and Avoid Saline Discharge Impacts	Less than significant
Impact 4.3-c: Cumulative Fish Losses Through Entrainment and Impingement at CCWD Intakes	4	Potentially significant	See Mitigation Measure 4.3-a (Alternative 4)	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Earth Resources: Geology, Soils, and Seismicity				
Impact 4.4-a: Hazards Resulting from Seismically Induced or Soil-Related Structural Failure of Project Facilities	1-4	Potentially significant	Mitigation Measure 4.4-a (Alternatives 1-4): Complete a Design-Level Geotechnical Study for the Project that Assesses Site-Specific Conditions, and Implement Applicable Study Recommendations in Facility Construction Design	Less than significant
Impact 4.4-b: Project-Related Soil Erosion	1-3	Less than significant	None required	Less than significant
Impact 4.4-b: Project-Related Soil Erosion	4	Potentially significant	Mitigation Measure 4.4-b (Alternative 4): Evaluate Site-specific Soil Erosion Hazards as Part of the Geotechnical Study, and Include Relevant Erosion-Control Requirements in the Construction Specifications	Less than significant
Local Hydrology and Water Quality				
Impact 4.5-a: Temporary Degradation of Surface Water Quality as a Result of Contaminant Releases and Runoff during Construction Activity	1-4	Potentially significant	Mitigation Measure 4.5-a (Alternatives 1-4): Prepare and Implement a Stormwater Pollution Prevention Plan (SWPPP) that Minimizes the Potential Contamination of Surface Waters, and Comply with Regional Water Quality Control Board (RWQCB) Requirements to Protect Water Quality	Less than significant
Impact 4.5-b: Potential Contribution of Project Facilities to Flooding	1-3	Less than significant	None required	Less than significant
Impact 4.5-c: Change in Local Flooding Potential as a Result of Levee Modifications	1-3	Less than significant	None required	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.5-d: Cumulative Temporary Degradation of Surface Water Quality as a Result of Construction Activity	1-3	Potentially significant	Mitigation Measure 4.5-d (Alternatives 1-3): Prepare and Implement a SWPPP that Minimizes the Potential Contamination of Surface Waters, and Comply with RWQCB Requirements to Protect Water Quality	Less than significant
Impact 4.5-b: Potential Contribution of Desalination Alternative Facilities to Flooding	4	Potentially significant	Mitigation Measure 4.5-b (Alternative 4): Prepare a Drainage Study and Implement the Resulting Recommendations to Ensure that the Local Drainage System Will Accommodate Additional Runoff	Less than significant
Terrestrial Biological Resources				
Impact 4.6-a: Potential Fill of Jurisdictional Waters of the United States and Loss of Sensitive Habitat	1-4	Potentially significant	Mitigation Measure 4.6-a (Alternatives 1-4): Minimize Potential Fill of Jurisdictional Waters of the United States and Loss of Sensitive Habitat, and Compensate for Unavoidable Impacts	Less than significant
Impact 4.6-b: Potential Loss of Special-status Plants	1-4	Potentially significant	Mitigation Measure 4.6-b (Alternatives 1-4): Minimize Potential Effects on Special-status Plants, and Mitigate for Loss If Required	Less than significant
Impact 4.6-c: Potential Effects on Giant Garter Snake	1-3	Potentially significant	Mitigation Measure 4.6-c (Alternatives 1-3): Implement Avoidance and Mitigation Measures as Needed to Minimize Potential Effects on Giant Garter Snake	Less than significant
Impact 4.6-d: Potential Effects on Greater Sandhill Crane	1-3	Less than significant	None required	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.6-e: Potential Effects on Swainson’s Hawk, White-Tailed Kite, Northern Harrier, and Other Raptors	1-3	Potentially significant	Mitigation Measure 4.6-e (Alternatives 1-3): Conduct Surveys and Implement Protective Measures, if Needed, to Minimize Potential Effects on Swainson’s Hawk, White-Tailed Kite, Northern Harrier, and Other Raptors	Less than significant
Impact 4.6-f: Potential Effects on Burrowing Owl	1-3	Potentially significant	Mitigation Measure 4.6-f (Alternatives 1-3): Conduct Surveys and Implement Protective Measures, if Required, to Minimize Potential Effects on Burrowing Owl	Less than significant
Impact 4.6-g: Potential Effects on Western Pond Turtle	1-3	Potentially significant	Mitigation Measure 4.6-g (Alternatives 1-3): Conduct Surveys and Implement Protective Measures, If Required, to Minimize Potential Effects on Western Pond Turtle	Less than significant
Impact 4.6-h: Potential Effects on California Horned Lark and Loggerhead Shrike	1-3	Less than significant	None required	Less than significant
Impact 4.6-i: Potential Effects on Tricolored Blackbird	1-3	Potentially significant	Mitigation Measure 4.6-i (Alternatives 1-3): Conduct Surveys and Minimize Potential Effects on Tricolored Blackbird, If Required	Less than significant
Impact 4.6-j: Potential Effects to NCCP Terrestrial Habitat Types	1-3	Potentially significant	Mitigation Measure 4.6-j (Alternative 1-3): Implement Mitigation Measures 4.6-a through 4.6-i (Alternative 1) to Minimize Potential Effects to NCCP Terrestrial Habitat Types	Less than significant
Impact 4.6-k: Potential Cumulative Effects on Terrestrial Special-status Species and Habitats	1-3	Potentially significant	Mitigation Measure 4.6-k (Alternatives 1-3): Implement Mitigation Measures 4.6-a Through 4.6-c, 4.6-e Through 4.6-g, and 4.6-i (Alternative 1) to Minimize Potential Effects on Sensitive Resources	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.6-c: Potential Disturbance or Removal of Habitat for California Clapper Rail, California Black Rail, and Salt Marsh Harvest Mouse	4	Potentially significant	Mitigation Measure 4.6-c (Alternative 4): Implement Avoidance and Mitigation Measures, If Required, to Minimize Potential Loss of Habitat for California Clapper Rail, California Black Rail, and Salt Marsh Harvest Mouse	Less than significant
Impact 4.6-d: Potential Effects on Burrowing Owl	4	Potentially significant	Mitigation Measure 4.6-d (Alternative 4): Conduct Surveys and Implement Protective Measures, If Required, to Minimize Potential Effects on Burrowing Owl	Less than significant
Impact 4.6-e: Potential Effects on Northern Harrier, White-Tailed Kite, And Other Raptors	4	Potentially significant	Mitigation Measure 4.6-e (Alternative 4): Conduct Surveys and Implement Protective Measures, If Needed, to Minimize Potential Effects on Northern Harrier, White-Tailed Kite, and Other Raptors	Less than significant
Impact 4.6-f: Potential Effects on Western Pond Turtle	4	Potentially significant	Mitigation Measure 4.6-f (Alternative 4): Conduct Surveys and Implement Protective Measures, if Required, to Minimize Potential Effects on Western Pond Turtle	Less than significant
Impact 4.6-g: Potential Effects on Habitat for Saltmarsh Common Yellowthroat, Suisun Song Sparrow, and Loggerhead Shrike	4	Less than significant	None required	Less than significant
Impact 4.6-h: Potential Long-term Effects of the Brine Discharge into Suisun Bay	4	Potentially significant	Mitigation Measure 4.6-h (Alternative 4): Evaluate Potential Long-term Effects of the Brine Discharge into Suisun Bay and Implement Actions to Meet RWQCB, USFWS, NMFS, and DFG Approval	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.6-i: Potential Cumulative Effects on Terrestrial Special-status Species and Habitats	4	Potentially significant	Mitigation Measure 4.6-i (Alternative 4): Implement Mitigation Measures 4.6-a Through 4.6-f and 4.6-h (Alternative 4) to Minimize Potential Effects on Sensitive Resources	Less than significant
Land Use				
Impact 4.7-a: Conflicts with Existing Land Use Goals and Policies of Affected Jurisdictions	4	Less than significant	None required	Less than significant
Agriculture				
Impact 4.8-a: Conversion of Prime Farmland and Farmland of Statewide Importance to Non-agricultural Uses	1-3	Significant	Mitigation Measure 4.8-a (Alternatives 1-3): Preserve the Agricultural Productivity of Prime Farmland and Farmland of Statewide Importance to the Extent Feasible	Significant and unavoidable
Impact 4.8-b: Conflict with Agricultural Zoning or Williamson Act Contracts	1-3	Less than significant	None required	Less than significant
Impact 4.8-c: Cumulative Conversion of Prime Farmland and Farmland of Statewide Importance to Nonagricultural Use	1-3	Significant	See Mitigation Measure 4.8-a	Significant and unavoidable
Transportation and Circulation				
Impact 4.9-a: Temporary Effects on Traffic, Including Effects on Emergency Service Response Times and Access, during Construction	1-3	Less than significant	None required	Less than significant
Impact 4.9-b: Long-term Increase in Traffic on Local Roadways	1-4	Less than significant	None required	Less than significant

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.9-c: Temporary Increase in Traffic Hazards on Local Roadways Near the Project Site	1-3	Potentially significant	Mitigation Measure 4.9-c (Alternatives 1-3): Prepare and Implement a Traffic Control and Safety Assurance Plan	Less than significant
Impact 4.9-d: Cumulative Increase in Traffic on Local Roadways	1-3	Less than significant	None required	Less than significant
Impact 4.9-a: Temporary Increase in Traffic on Local Roadways	4	Less than significant	None required	Less than significant
Impact 4.9-c: Temporary Traffic Delays and Access Restrictions, Including Potential Delays in Emergency Vehicle Response Times	4	Potentially significant	Mitigation Measure 4.9-c (Alternative 4): Prepare and Implement a Traffic Control and Safety Assurance Plan	Less than significant
Impact 4.9-d: Temporary Increase in Traffic Hazards on Local Roadways Near Construction Areas	4	Significant	Mitigation Measure 4.9-d (Alternative 4): Prepare and Implement a Traffic Control and Safety Assurance Plan	Less than significant
Impact 4.9-e: Temporary Disruptions to Rail Operations	4	Less than significant	None required	Less than significant
Impact 4.9-f: Temporary Disruptions to Transit Service	4	Potentially significant	Mitigation Measure 4.9-f (Alternative 4): Coordinate with Transit Providers to Ensure That Disruption of Public Transit Service is Minimized	Less than significant
Impact 4.9-g: Cumulative Increase in Traffic on Local Roadways	4	Less than significant	None required	Less than significant
Air Quality				
Impact 4.10-a: Generation of Short-Term Construction Criteria Air Pollutant Emissions	1-3	Significant	Mitigation Measure 4.10-a (Alternatives 1-3): Implement SJVAPCD and BAAQMD Measures to Control Construction-Generated Air Pollution Emissions	Significant and unavoidable

Table 1-1 Summary of Impacts and Mitigation Measures				
Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.10-b: Generation of Long-Term Operational (Regional) Criteria Air Pollutant Emissions	1-4	Less than significant	None required	Less than significant
Impact 4.10-c: Generation of Long-Term Operational (Local) Mobile-Source Carbon Monoxide Emissions	1-4	Less than significant	None required	Less than significant
Impact 4.10-d: Exposure of Sensitive Receptors to Toxic Air Contaminants	1-4	Less than significant	None required	Less than significant
Impact 4.10-e: Exposure of Sensitive Receptors to Odorous Emissions	1-4	Less than significant	None required	Less than significant
Impact 4.10-f: Cumulative Generation of Short-Term Construction Criteria Air Pollutant Emissions	1-3	Significant	Mitigation Measure (Alternatives 1-3): Implement SJVAPCD and BAAQMD Measures to Control Construction-Generated Air Pollution Emissions	Significant and unavoidable
Impact 4.10-a: Generation of Short-Term Construction Criteria Air Pollutant Emissions	4	Significant	Mitigation Measure 4.10-a (Alternative 4): Implement BAAQMD Measures to Control Construction-Generated Air Pollutants	Less than significant
Impact 4.10-f: Cumulative Generation of Short-Term Construction Criteria Air Pollutant Emissions	4	Significant	See Mitigation Measure 4.10-a (Alternative 4)	Significant and unavoidable
Noise				
Impact 4.11-a: Generation of Short-Term Construction Noise	1-3	Potentially significant	Mitigation Measure 4.11-a (Alternative 1): Implement Measures to Control Generation of Short-Term Construction Noise	Less than significant
Impact 4.11-b: Long-Term Increases in Noise	1-3	Less than significant	None required	Less than significant
Impact 4.11-c: Exposure of Sensitive Receptors to or Generation of Excessive Ground-Borne Vibration or Noise	1-4	Less than significant	None required	Less than significant

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Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.11-a: Generation of Short-Term Construction Noise	4	Significant	Mitigation Measure 4.11-a (Alternative 4): Implement Measures to Control Generation of Short-Term Construction Noise	Less than significant
Impact 4.11-b: Generation of Long-Term Operational Noise	4	Less than significant	None required	Less than significant
Utilities and Service Systems				
Impact 4.12-a: Temporary Disruption of Utility Services during Construction	1-3	Less than significant	None required	Less than significant
Impact 4.12-b: Increases in Energy Consumption	1-4	Less than significant	None required	Less than significant
Impact 4.12-c: Increases in Solid Waste Generation	1-4	Less than significant	None required	Less than significant
Impact 4.12-a: Temporary Disruption of Utility Services during Construction	4	Potentially significant	Mitigation Measure 4.12-a (Alternative 4): Reduce the Potential for Damage to Existing Utilities	Less than significant
Hazardous Materials				
Impact 4.13-a: Potential Creation of a Public Health Hazard Through the Use of Hazardous Materials	1-4	Less than significant	None required	Less than significant
Impact 4.13-b: Potential Exposure of Construction Workers and CCWD Personnel to Hazardous Materials	1-3	Potentially significant	Mitigation Measure 4.13-b (Alternatives 1-3): Coordinate with the Applicable Landowners and Land Managers to Ensure That Temporary Construction Workers and CCWD Personnel Are Not Exposed to Harmful Levels of Pesticides from Adjacent Agricultural Practices	Less than significant
Impact 4.13-c: Potential Wildfire Hazard	1-4	Less than significant	None required	Less than significant

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Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.13-b: Potential Exposure of Construction Workers to Hazardous Materials and Conditions	4	Potentially significant	Mitigation Measure 4.13-b(1) (Alternative 4): Complete a Hazardous Materials Records Search and a Phase I Environmental Site Assessment for the Project Footprint, and Implement Appropriate Measures to Prevent the Exposure of Construction Workers to On-Site Hazardous Materials Mitigation Measure 4.13-b(2) (Alternative 4): Reduce the Potential for Damage to Existing Utilities	Less than significant
Visual Resources				
Impact 4.14-a: Temporary Changes in Scenic Vistas, Scenic Resources, and Existing Visual Character	1-4	Less than significant	None required	Less than significant
Impact 4.14-b: Long-Term Changes in Scenic Vistas, Scenic Resources, and Existing Visual Character	1-4	Less than significant	None required	Less than significant
Impact 4.14-c: Changes in Light or Glare	1-4	Less than significant	None required	Less than significant
Recreation				
Impact 4.15-a: Temporary Changes in Recreational Opportunities during Project Construction	1-4	Less than significant	None required	Less than significant
Impact 4.15-b: Long-term Changes in Recreation Opportunities	1-4	Less than significant	None required	Less than significant
Cultural Resources				
Impact 4.16-a: Damage to or Destruction of Previously Undiscovered Cultural Resources on the Project Site(s)	1-4	Potentially significant	Mitigation Measure 4.16-a(1) (Alternatives 1-4): Survey Previously Unexamined Areas before the Beginning of Any Project-Related Ground Disturbance in These Areas, and Implement Further Mitigation as Necessary	Less than significant

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Resource Topic/Impact	Alternative	Level of Significance before Mitigation	Mitigation Measure	Level of Significance after Mitigation
Impact 4.16-b: Discovery of Human Remains during Construction	1-4	Potentially significant	Mitigation Measure 4.16-a(2) (Alternatives 1-4): Restrict Ground Disturbance and Implement Measures to Protect Archaeological Resources if Discovered during Surveys or Ground-Disturbing Activities Mitigation Measure 4.16-b (Alternatives 1-4): Stop Potentially Damaging Work if Human Remains Are Uncovered During Construction, Assess the Significance of the Find, and Pursue Appropriate Management	Less than significant
Impact 4.16-c: Damage to or Destruction of Documented Cultural Resources	4	Less than significant	None required	Less than significant
Paleontological Resources				
Impact 4.17-a: Potential Disturbance of Paleontological Resources During Earth-Moving Activities	4	Potentially significant	Mitigation Measure 4.17-a (Alternative 4): Conduct Construction Worker Personnel Education and Perform Construction Monitoring	Less than significant
Socioeconomic Effects				
Impact 4.18-a: Potential Permanent Decrease in Local Economic Activity and Fiscal Revenues	1-3	Less than significant	None required	Less than significant
Impact 4.18-b: Temporary Economic and Fiscal Impact	1-3	Less than significant	None required	Less than significant
Environmental Justice				
Impact 4.19-a: Potential Disproportionate Effects on Minority and Low-Income Populations	4	Less than significant	None required	Less than significant