

EXHIBIT B
Mitigation Monitoring and Reporting Program for the
Updated Local Funding Mechanisms for Sacramento
Area Flood Control Improvements



State Clearinghouse No. 2006072098

Prepared for:



April 2016

Mitigation Monitoring and Reporting Program for the
Updated Local Funding Mechanisms for Sacramento
Area Flood Control Improvements



SCH# 2006072098

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ACRONYMS AND OTHER ABBREVIATIONS

ARB	Air Resources Board
BMP	best management practice
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CRHR	California Register of Historic Resources
CWA	Clean Water Act
DOGGR	California Department of Conservation's Division of Oil, Gas, and Geothermal Resources
DPR	California Department of Parks and Recreation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EIR	environmental impact report
ESA	Endangered Species Act
HazMat	hazardous materials
hp	horsepower
HRA	Health Risk Assessment
MLD	Most Likely Descendant
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NOI	Notice of Intent
NO _x	nitric oxide
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
Phase I ESA	Phase I Environmental Site Assessment
PM	particulate matter
PM _{2.5}	PM equal to or less than 2.5 micrometers in diameter
PM ₁₀	PM equal to or less than 10 micrometers in diameter
PRC	Public Resources Code
ROG	reactive organic gases
RWQCB	Regional Water Quality Control Board
SAFCA	Sacramento Area Flood Control Agency
SMAQMD	Sacramento Metropolitan Air Quality Management District
SPCP	spill prevention and control plan
SRA	shaded riverine aquatic
SEIR	Subsequent Environmental Impact Report
SVP	Society for Vertebrate Paleontology
SWPPP	Storm Water Pollution Prevention Plan
TACs	toxic air contaminants

USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
YSAQMD	Yolo-Solano Air Quality Management District

MITIGATION MONITORING AND REPORTING PROGRAM

In accordance with the California Environmental Quality Act (CEQA), in 2016 the Sacramento Area Flood Control Agency (SAFCA) prepared a program-level subsequent environmental impact report (SEIR) to provide the public and responsible and trustee agencies with information about the potential environmental impacts associated with implementation of the Updated Local Funding Mechanisms for Sacramento Area Flood Control Improvements (hereafter referred to as the “program”).

The SEIR concludes that implementation of the proposed program would generate significant and potentially significant adverse effect on the environment (impacts). The SEIR identifies feasible mitigation capable of avoid, mitigating, or reducing these impacts.

Section 21081.6(a)(1) of the California Public Resources Code and Section 15097 of the State CEQA Guidelines, require a public agency to adopt a reporting and monitoring program for changes that it has adopted and incorporated into the project (program), at the time of approval, to mitigate, avoid, or reduce significant effects on the physical environment. These changes are also referred to as mitigation measures.

This Mitigation Monitoring and Reporting Program is to be used by SAFCA to ensure that mitigation measures which are identified in the SEIR and adopted and incorporated into the program are implemented and that their implementation is documented. The Mitigation Monitoring and Reporting Program is presented in tabular format.

The table columns contain the following information:

Mitigation Number: Lists the mitigation measures by number, as designated in the SEIR.

Mitigation Measure: Provides the text of the mitigation measures, each of which has been adopted and incorporated into the program.

Timing/Schedule: Lists the time frame in which the mitigation measure is expected to take place.

Implementation Responsibility: Identifies the entity responsible for complying with the requirements of the mitigation measure.

Completion of Implementation: SAFCA is responsible for reporting on implementation of the mitigation measures. The “Action” column is to be used by SAFCA to describe the action(s) taken to complete implementation. The “Date Completed” column is to be used by SAFCA to indicate when implementation of the mitigation measure has been completed. SAFCA, at its discretion, may delegate implementation responsibility or portions thereof to qualified consultants or contractors.

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Mitigation Number	Mitigation Measure	Timing/Schedule	Implementation Responsibility	Monitoring Responsibility	Reporting
Agriculture and Forestry Resources					
AG-1	<p>Implement Measures to Minimize Impacts to Agricultural Productivity and Compensate for Unavoidable Conversions of Agricultural Land to Nonagricultural Use (for Impact AG-1, Conversion of Agricultural Land, including Important Farmland, to Nonagricultural Uses)</p> <p>The agency(ies) implementing program components shall implement measures to reduce impacts associated with conversion of agricultural land to nonagricultural use in accordance with local policies and ordinances. These measures may include, but are not limited to:</p> <ul style="list-style-type: none"> • purchase of mitigation lands and/or creation of conservation easements at the ratio required by the host county (i.e., 2:1 for nonprime or 3:1 for prime farmland in Yolo County), in locations satisfactory to the host county; or • payment of in-lieu fees at a rate established by the host county, if mitigation lands or conservation easements are not purchased; or • development of programs and projects that directly mitigate impacts to diminished agricultural capacity and reduced economies of scale; or • contribution to an Agricultural Sustainability Fund. 	Prior to construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
Air Quality					
AIR-1	<p>Implement Measures and Guidelines of the Applicable Air District(s) to Reduce Construction-Generated Emissions of Air Pollutants (for Impact AIR-1, Generation of Temporary and Short-Term Emissions of ROG, NO_x, PM₁₀, and PM_{2.5} during Construction)</p> <p>The agency(ies) implementing program components and their primary contractor(s) for engineering design and construction shall ensure that the following measures are implemented to reduce emissions of ROG, NO_x, PM₁₀, and PM_{2.5} during construction.</p> <p>All feasible, current mitigation measures and guidelines of the applicable air district(s) shall be included in project plans and construction specifications.</p> <p>Implementation of program components shall adhere to these measures and comply with all applicable rules and regulations of the applicable air</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>district(s).</p> <p>The measures shall include directives for construction vehicle emissions limits, equipment maintenance, and the use of electric equipment in place of internal-combustion equipment where feasible. At the time of this analysis, all projects occurring within Sacramento County would be required to implement SMAQMD Basic Construction Emission Control Practices as well as comply with SMAQMD Rule 401 (Ringelmann Chart/Opacity), Rule 402 (Nuisance), and Rule 403 (Nuisance) among others. In Yolo and Solano Counties, future project components would be required to comply with YSAQMD's Rule 2.5 (Nuisance) to minimize fugitive dust emissions.</p> <p>a) Based on the result of future project-level CEQA analysis and air quality modeling, if construction emissions within SMAQMD's jurisdiction are determined to exceed the SMAQMD thresholds of significance with implementation of SMAQMD Basic Construction Emission Control Practices, additional on-site mitigation measures shall be implemented to further reduce construction emissions. These measures include, but are not limited to:</p> <ol style="list-style-type: none"> 1. SMAQMD Enhanced Exhaust Control Practices. 2. SMAQMD Enhanced Fugitive PM Dust Control Practices. <p>b) Based on the result of future project-level CEQA analysis and air quality modeling, if construction emissions within SMAQMD's jurisdiction are determined to exceed the SMAQMD thresholds of significance, the project applicant shall pay SMAQMD an off-site mitigation fee to reduce impacts to a less-than-significant level. The specific fee amounts shall be calculated when the construction emissions can be more accurately determined. This calculation would occur when an alternative has been selected, the project has been approved, and improvement plans have been prepared. Calculation of fees associated with subsequent improvement plans/project phases shall be conducted at the time of their preparation. The applicable fee rate shall be determined, and total fee calculated based upon the fee rate in effect at the time the CEQA document is prepared. The following SMAQMD-prescribed steps shall be taken in the case that on-site mitigation is unable to reduce emissions to a less-than-significant level.</p> <ol style="list-style-type: none"> 1. The project applicant(s) shall pay into SMAQMD's off-site construction mitigation fund to further mitigate construction-generated emissions of NO_x that exceed SMAQMD's daily emission 				

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	<p>threshold of 85 lb/day. The calculation of daily NO_x emissions shall be based on the cost to reduce 1 ton of NO_x at the time the document is prepared (currently, \$18,030 per ton). The determination of the final mitigation fee shall be conducted in coordination with SMAQMD before any demolition or ground disturbance occurs for any project phase.</p> <p>2. Calculation of and payment of the fee for all subsequent project phases shall also be included in the Mitigation Monitoring and Reporting Program for the project.</p> <p>3. The project applicant(s) for all project phases shall reduce NO_x and visible emissions from heavy-duty diesel equipment by implementing the following measures:</p> <ul style="list-style-type: none"> - A plan shall be developed, in consultation with SMAQMD, demonstrating that the heavy-duty (>50 hp), off-road vehicles to be used in the construction project (including owned, leased, and subcontractor vehicles) will achieve a project wide fleet-average 20 percent NO_x reduction and 45% particulate reduction compared to the most recent ARB fleet average at the time of construction. Acceptable options for reducing emissions include the use of late-model engines, low-emission diesel products, alternative fuels, particulate-matter traps, engine retrofit technology, after-treatment products, and/or such other options as become available. <p>A comprehensive inventory of all off-road construction equipment equal to or greater than 50 hp that will be used for an aggregate of 40 or more hours during any portion of project construction shall be submitted to SMAQMD. The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction operations occur. At least 48 hours before heavy-duty off-road equipment is used, the project applicant(s) shall provide SMAQMD with the anticipated construction timeline, including the start date, and the name and phone number of the project manager and on-site foreman.</p>				

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AIR-2	<p>Conduct a Health Risk Assessment (HRA) If a Potential Health Risk Exists, and Develop and Implement Mitigation in Coordination with the Applicable Air District(s) (for Impact AIR-3, Exposure of Sensitive Receptors to Toxic Air Emissions)</p> <p>The agency(ies) implementing program components shall ensure that the following measures are implemented to reduce the potential for exposure of sensitive receptors to TACs.</p> <p>Future project-level CEQA analysis shall include analysis to determine whether a potential impact exists associated with construction-related emissions of TAC. This analysis shall be conducted in accordance with the standards of the air district which has jurisdiction over the program component. If a potential health risk exists, an HRA should incorporate the applicable on-site emission reduction measures in Mitigation Measure AIR-1. Where sensitive receptors may be exposed to unacceptable levels of TAC's, additional site-specific mitigation measures, developed in coordination with the appropriate air district(s), shall be implemented.</p> <p>Measures may include requiring equipment to be shut off when not in use, and prohibiting heavy trucks from idling for extended periods. Applicable measures shall be included in project plans and construction specifications.</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
Biological Resources – Fisheries					
BIO-F1	<p>Comply with Section 1602, the Federal Endangered Species Act, and the California Endangered Species Act as Needed, and Mitigate on a No-Net-Loss Basis (for Impact BIO-F1, Possible Modifications to Aquatic Shoreline and Floodplain Habitat Used by Special-Status Fish)</p> <p>The agency(ies) implementing program components shall implement the following measure to avoid, minimize, and, if necessary, compensate for modification to aquatic shoreline and floodplain habitat for special-status fish. CDFW shall be consulted regarding potential disturbance to fish habitat, including SRA habitat, as part of the process for obtaining a streambed alteration agreement, pursuant to Section 1602 of the California Fish and Game Code, for program activities that could affect a channel (e.g., irrigation/drainage canal, creek, river), streambank, or waterside of a levee. Affected habitats shall be replaced and/or rehabilitated on a “no-net-loss” basis in accordance with CDFW regulations and as specified in the streambed alteration agreement, if applicable. Habitat restoration, rehabilitation, and/or</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>replacement shall be at a location and by methods agreeable to CDFW. Minimization and compensation measure adopted through the permitting process shall be implemented.</p> <p>The USFWS and NMFS shall be consulted regarding compliance with the Federal Endangered Species Act (ESA) for potential effects on species under their respective jurisdictions, and CDFW shall be consulted regarding compliance with the California Endangered Species Act (CESA) or potential effects on State-listed species. Appropriate measures shall be developed in consultation with the agencies and implemented to minimize and potentially compensate unavoidable effects on special-status species. All measures developed through informal consultation with USFWS, NMFS, and CDFW shall be implemented, as well as any additional measures adopted through formal permitting process, if applicable.</p> <p>If applicable, an appropriate and feasible mitigation plan to compensate for habitat modification shall be developed and provided to NMFS and, as necessary, USFWS and CDFW for approval. Compensation may include preserving, enhancing, and/or creating fish habitat at an on- or off-site location. Appropriate mitigation ratios will be determined in coordination with the resource agencies but would ensure “no-net-loss” of habitat. If habitat creation is proposed, the mitigation plan shall include methods for implementation, success criteria, monitoring and reporting protocols, and contingency measures to be implemented if the initial mitigation fails. Alternatively, purchasing credits at an agency-approved mitigation bank may be identified as appropriate mitigation.</p>				
BIO-F2	<p>Develop and Implement Measures to Avoid and Minimize Potential for Direct Impacts (for Impact BIO-F2, Potential Disturbance, Injury, and Mortality of Special-Status Fishes during Construction)</p> <p>The agency(ies) implementing program components shall consult with USFWS, NMFS, and CDFW to avoid and minimize disturbance, injury, and mortality of special-status fish. Consultation shall include development of measures to avoid and minimize direct effects on individuals of listed fish species. Such measures are likely to include, but will not be limited to, conducting in-water construction during in-water work windows designed to avoid impacts to critical life stage (typically from June through October) and installing screens on any construction-related water pump intakes located on waterways with special-status fish, in accordance with current agency screening specifications.</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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Biological Resources- Terrestrial					
BIO-1	<p>Identify Sensitive Habitat Areas and Implement Measures to Avoid and Minimize Impacts and Compensate Unavoidable Impacts on a No-Net-Loss Basis (for Impact BIO-1, Disturbance and Loss of Sensitive Habitats, including Riparian Habitat, Protected Trees, Jurisdictional Waters of the United States, and Waters of the State)</p> <p>To avoid, minimize, and, if necessary, compensate for the direct fill of waters of the United States and waters of the State and loss of riparian habitat and protected trees, the agency(ies) implementing program components shall implement the measures summarized below.</p> <p>Areas of sensitive habitat shall be identified and, to the extent feasible and practicable, program activities shall be designed to avoid direct effects on these areas. Before any ground-disturbing activities begin, a qualified biologist shall map potential waters of the United States and shall identify all riparian habitat that could be affected. The mapping may be performed as part of a formal delineation of waters of the United States for Clean Water Act (CWA) Section 404 permitting, as described below. For program activities within the City of Sacramento and/or Sacramento County, a survey of trees protected by applicable policies and ordinances shall also be conducted by a qualified biologist. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprints of construction zones, borrow areas, staging areas, and access routes are designed to avoid disturbance of waters of the United States, riparian habitat, and trees protected by applicable municipal and county policies and ordinances to the extent feasible and practicable.</p> <p>If sensitive habitats cannot be avoided during project construction, an appropriate and feasible mitigation plan to compensate for loss of these habitats shall be developed and provided to the appropriate regulatory agencies for approval. The plan shall detail appropriate compensation measures determined through consultation with the respective regulatory agencies, methods for implementation, success criteria, monitoring and reporting protocols, and contingency measures to be implemented if the initial mitigation fails. The plan shall be developed in consultation with and approved by the appropriate regulatory agencies before construction activities begin in areas containing sensitive habitats.</p> <p>If it is determined that implementation of a funded facility would result in</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>direct impacts to sensitive habitats, despite implementation of avoidance and minimization measures, compliance with the following applicable regulatory permitting processes shall be obtained. All measures developed through consultation with the respective regulatory agencies shall be implemented, to mitigate adverse effects.</p> <ul style="list-style-type: none"> <p>Section 404: A qualified biologist shall complete a delineation of wetlands and other waters of the United States that would be affected. The findings shall be documented in a detailed report and submitted to the USACE for verification as part of the formal Section 404 wetland delineation process. For all jurisdictional areas that cannot be avoided, authorization shall be secured for fill of wetlands and alteration of waters of the United States from the USACE through the Section 404 permitting process. The acreage of jurisdictional wetland affected shall be replaced on a “no-net-loss” basis in accordance with USACE regulations. Habitat restoration, rehabilitation, and/or replacement shall be at a location and by feasible methods agreeable to the USACE and consistent with the purpose and intent of applicable county and municipal policies and codes.</p> <p>Section 401: Water quality certification pursuant to Section 401 of the CWA shall be obtained from the Central Valley RWQCB and affected habitats shall be replaced and/or rehabilitated. A report of waste discharge shall be filed with the Central Valley RWQCB and all waste discharge requirements prescribed by the Central Valley RWQCB, pursuant to the Porter-Cologne Act, shall be complied with before starting construction in any areas containing waters of the State that are not also waters of United States.</p> <p>Section 1602: A streambed alteration agreement shall be obtained from CDFW and affected habitats shall be replaced and/or rehabilitated. The acreage of riparian habitat that would be removed shall be replaced or rehabilitated on a “no-net-loss” basis in accordance with CDFW regulations and as specified in the streambed alteration agreement, if applicable. Habitat restoration, rehabilitation, and/or replacement shall be at a location and by methods agreeable to CDFW and consistent with the purpose and intent of applicable county and municipal policies and codes.</p> 				

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BIO-2	<p>Identify Occupied Habitat and Implement Measures to Avoid and Minimize Potential Impacts and Compensate Loss of Special-status Plants, as Needed (for BIO-2, Possible Loss of Special-status Plants and Loss and Degradation of Special-status Plant Habitat)</p> <p>To avoid, minimize, and, if necessary, compensate for direct loss of special-status plants, the agency(ies) implementing program components shall implement the measures described below.</p> <p>Suitable habitat for special-status plants shall be identified and, to the extent feasible and practicable, program elements shall be designed to avoid direct effects on these areas. Before any ground-disturbing program activities begin, a qualified botanist shall identify potential habitat for special-status plants in areas that could be affected. The primary engineering and construction contractors shall ensure, through coordination with the botanist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid disturbance of potential habitat to the extent feasible and practicable.</p> <p>If suitable habitat for special-status plants cannot be avoided, focused surveys shall be conducted. Before any ground-disturbing project activities begin, a qualified botanist shall conduct surveys for special-status plants in appropriate habitat within the impact area, in accordance with CDFW guidelines and at the appropriate time of year when the target species would be clearly identifiable. If no special-status plants are found during focused surveys, no further action shall be required.</p> <p>If habitat occupied by special-status plants cannot be avoided during project construction, an appropriate and feasible mitigation plan shall be developed and provided to CDFW for approval. The plan shall detail appropriate measures determined through consultation with CDFW, which may include salvaging and transplanting individual plants, collecting the seeds of affected plants, and collecting and translocating seed- and rhizome-containing mud. If necessary, compensation may include preserving in perpetuity other known populations of these species in the project vicinity at ratios of or greater than 1-to-1. The plan shall be developed in consultation with and approved by CDFW before construction activities begin in areas containing special-status plant species.</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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BIO-3	<p>Identify Suitable Habitat and Implement Measures to Avoid and Minimize Potential Impacts and Compensate Unavoidable Impacts to Habitat, as Needed (for Impact BIO-3, Possible Effects on Valley Elderberry Longhorn Beetle)</p> <p>To avoid, minimize, and, if necessary, compensate for potential adverse effects on valley elderberry longhorn beetle, the agency(ies) implementing program components shall implement the measures described below.</p> <p>Areas that support elderberry shrubs shall be identified and, to the extent feasible and practicable, program activities shall be designed to avoid direct effects on these areas. Before beginning any ground-disturbing program activities, a qualified biologist shall identify areas that support elderberry shrubs and that could be affected by program activities. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid disturbance of potential habitat to the extent feasible and practicable.</p> <p>If impacts to areas supporting elderberry shrubs cannot be avoided, focused surveys shall be conducted. Before any program activities begin, a qualified biologist shall conduct surveys for elderberry shrubs within 100 feet of the impact area, in accordance with USFWS guidelines. All elderberry shrubs with potential to be affected by project activities shall be mapped and the number of stems 1 inch in diameter or greater on each shrub that may require removal shall be counted and examined for beetle exit holes.</p> <p>USFWS shall be consulted to identify appropriate measures, including appropriate measures from standard USFWS guidelines, if any elderberry shrubs with stems 1 inch in diameter or greater could be adversely affected. Minimization measures may include implementing buffers around shrubs that would not be removed, conducting worker awareness training, and periodic biological monitoring. If direct impacts on elderberry shrubs cannot be avoided, an appropriate and feasible mitigation plan shall be developed and provided to USFWS for approval. At a minimum, the plan shall describe requirements for transplanting shrubs; specify the number of replacement elderberry shrubs and associated native plants to be established (at a ratio ranging from 1:1 to 1:6, depending on stem size and presence of beetle exit holes) and associated success criteria; specify remedial measures to be undertaken if survival success criteria are not met; and describe short- and</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>long-term maintenance and management to ensure that the appropriate habitat conditions are provided.</p> <p>Authorization for take of valley elderberry longhorn beetle under ESA shall be obtained if it is determined that program activities is likely to result in take, despite implementation of avoidance and minimization measures. All measures developed through informal consultation with USFWS shall be implemented, as well as any additional measures adopted through a formal permitting process, if applicable.</p>				
BIO-5	<p>Identify Suitable Habitat and Implement Measures to Avoid and Minimize Potential Impacts and Compensate Unavoidable Impacts, as Needed (for Impact BIO-5, Possible Effects on Giant Garter Snake)</p> <p>To avoid, minimize, and, if necessary, compensate for potential adverse effects on giant garter snake, the agency(ies) implementing program components shall implement the following measures:</p> <p>Giant garter snake habitat shall be identified and, to the extent feasible and practicable, program activities shall be designed to avoid direct effects on these areas. Before beginning any ground-disturbing program activities, a qualified biologist shall identify potential giant garter snake habitat in areas that could be affected. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid disturbance of potential giant garter snake habitat to the extent feasible and practicable.</p> <p>If giant garter snake habitat cannot be avoided, measures shall be implemented to minimize and potentially compensate unavoidable effects. Before any ground-disturbing program activities begin in giant garter snake habitat, CDFW and USFWS shall be consulted to identify appropriate measures to minimize potential for adverse effects on giant garter snake. Minimizing measures are likely to include, but would not be limited to, temporary fencing of habitat that can be avoided, conducting worker awareness training, timing of dewatering and ground disturbance to correspond with the snake's active season, preconstruction surveys, and periodic biological monitoring.</p> <p>If applicable, an appropriate and feasible mitigation plan to compensate for potential disturbance, displacement, injury, or death individuals shall be developed and provided to USFWS and, as necessary, CDFW for approval. Compensation for direct impacts may include preserving, enhancing, and/or</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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BIO-6	<p>creating giant garter snake habitat at an on- or off-site location. Appropriate mitigation ratios would be determined in coordination with USFWS and CDFW; ratios typically required depend on the duration of the impact and may range from 1 to 3 acres of replacement habitat for every 1 acre of habitat affected. If habitat creation is proposed, the mitigation plan shall include methods for implementation, success criteria, monitoring and reporting protocols, and contingency measures to be implemented if the initial mitigation fails. Alternatively, purchasing credits at a USFWS-approved mitigation bank may be identified as appropriate mitigation.</p> <p>Authorization for take of giant garter snake under ESA, and possibly CESA, shall be obtained if it is determined that implementation of program activities is likely to result in take, despite implementation of avoidance and minimization measures. All measures developed through informal consultation with USFWS and CDFW shall be implemented, as well as any additional measures adopted through a formal permitting process, if applicable.</p> <p>Identify Habitat and Implement Measures to Avoid and Minimize Potential Impacts (for Impact BIO-6, Possible Effects on Northwestern Pond Turtle)</p> <p>To avoid and minimize potential adverse effects on northwestern pond turtle during project construction, the agency(ies) implementing program components shall implement the measures described below.</p> <p>Suitable habitat for northwestern pond turtle shall be identified and, to the extent feasible and practicable, program elements shall be designed to avoid direct effects on these areas. Before any ground-disturbing program activities begin, a qualified biologist shall identify potential aquatic and nesting habitat in areas that could be affected. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid direct or indirect effects on suitable habitat for northwestern pond turtle to the extent feasible and practicable.</p> <p>If effects to pond turtle habitat cannot be avoided, measures shall be implemented to minimize unavoidable effects. Before beginning any project activities in such habitat, appropriate measures to minimize adverse effects on pond turtles shall be identified and provided to CDFW for comment. Such measures are likely to include, but would not be limited to, conducting surveys after dewatering of suitable aquatic habitat and moving stranded turtles to</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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BIO-7	<p>appropriate areas (turtles shall only be handled by a qualified biologist authorized by CDFW), conducting preconstruction surveys of uplands adjacent to suitable aquatic habitat, minimizing disturbance of potential nesting habitat during the nesting season, installing fencing to exclude turtles from nesting in areas where ground disturbance would occur, conducting worker awareness training, and periodic biological monitoring.</p> <p>Identify Habitat and Nest Locations, Minimize Potential Impacts, Monitor Active Nests during Construction, and Compensate Unavoidable Impacts, as Needed (for Impact BIO-7, Possible Effects on Swainson's Hawk)</p> <p>To avoid and minimize potential adverse effects on nesting Swainson's hawks during project construction and, if necessary, compensate for unavoidable effects, the agency(ies) implementing program components shall implement the measures described below.</p> <p>Swainson's hawk nesting habitat shall be identified and, to the extent feasible and practicable, program elements shall be designed to avoid direct effects on these areas. Before beginning any ground-disturbing program activities, a qualified biologist shall identify known Swainson's hawk nest locations and areas of potential nesting habitat that could be affected. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid disturbance of potential habitat to the extent feasible and practicable.</p> <p>Surveys shall be conducted if implementation of program activities could result in disturbance of active Swainson's hawk nests. If vegetation removal or other disturbance related to program activities is required during the nesting season, focused surveys for active Swainson's hawk nests shall be conducted by a qualified biologist before initiating such activities. The appropriate area to be surveyed and timing of the survey may vary depending on the activity.</p> <p>Before beginning program activities that could result in disturbance of nesting pairs or loss of nesting habitat, CDFW shall be consulted to identify appropriate measures to minimize and potentially compensate adverse effects on Swainson's hawk. Minimization measures are likely to include, but would not be limited to, avoiding activities during the nesting season, and/or focusing nesting season activities to less-sensitive periods in the nesting cycle, implementing protective buffers around and monitoring active nests,</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

Mitigation Monitoring and Reporting Program for the Updated Local Funding Mechanisms Program					
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	<p>conducting worker awareness training, and periodic biological monitoring. Compensation may include preservation, enhancement, and/or creation of Swainson's hawk habitat within the program area and/or at other appropriate locations.</p> <p>Authorization for take of Swainson's hawk under CESA shall be obtained if it is determined that program activities are likely to result in take, despite implementation of avoidance and minimization measures. All measures developed through informal consultation with CDFW shall be implemented, as well as any additional measures adopted through a formal permitting process, if applicable.</p>				
BIO-8	<p>Identify Habitat and Nest Locations, Minimize Potential Impacts, Monitor Active Nests during Construction, and Compensate Unavoidable Impacts, as Needed (for Impact BIO-8, Possible Effects on Special-Status Birds)</p> <p>To avoid and minimize potential adverse effects on burrowing owls and nesting special-status birds, the agency(ies) implementing program components shall implement the measures described below.</p> <p>To the extent feasible and practicable, program activities shall be designed to minimize removal of burrowing owl habitat and nesting habitat for other special-status birds. Before any program activities begin, a qualified biologist shall identify potential special-status bird habitat in areas that could be affected. The primary engineering and construction contractors shall ensure, through coordination with the biologist, that the footprint of program features and construction zones, staging areas, and access routes are designed to avoid direct or indirect effects on burrowing owl habitat and nesting habitat for other special-status species to the extent feasible and practicable. Vegetation removal and other program activities shall be timed to avoid the nesting season for special-status bird species that may be present.</p> <p>Surveys shall be conducted if implementation of program activities could result in disturbance of occupied burrowing owl habitat or loss of active nests of other special-status bird species. If vegetation removal or other disturbance related to program activities is required during the nesting season, focused surveys for active nests of special-status birds shall be conducted by a qualified biologist before initiating such activities. The appropriate area to be surveyed and timing of the survey may vary depending on the activity and species that could be affected. Surveys for occupied burrowing owl habitat</p>	<p>Prior to, during, and after construction activities.</p>	<p>The agency(ies) implementing the program component</p>	<p>SAFCA (through Project Management Plans)</p>	<p>Annual</p>

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BIO-9	<p>shall be conducted before any program activities are initiated at any time of year. If no active nests or occupied burrowing owl habitat are found during focused surveys, no further action shall be required.</p> <p>Before beginning program activities that could result in disturbance of occupied burrowing owl habitat or nesting pairs of other special-status birds, CDFW shall be consulted to identify appropriate measures to minimize and potentially compensate for adverse effects. Minimization measures are likely to include, but not be limited to, focusing construction activities that must be conducted during the nesting season to less-sensitive periods in the nesting cycle, implementing buffers around occupied burrowing owl habitat and active nests of other special-status birds to the extent practical and feasible to limit visual and noise disturbance, relocating burrowing owls that are within the impact area, conducting worker awareness training, and biological monitoring. Compensation for impacts on burrowing owls may include preservation, enhancement, and/or creation of suitable habitat onsite and/or other appropriate locations. All measures deemed appropriate and feasible during this consultation with CDFW shall be implemented.</p> <p>Identify Roosting Habitat and Implement Measures to Avoid and Minimize Disturbance and Loss of Roosting Habitat (for Impact BIO-9, Possible Side Effects on Special-status Bats)</p> <p>To avoid and minimize potential disturbance or loss of roosting special-status bats, the agency(ies) implementing program components shall implement the following measures.</p> <p>To the extent feasible and practicable, program elements shall be designed to minimize disturbance of potential roosting habitat along the Sacramento River East Levee. Before any ground-disturbing program activities begin, a qualified biologist shall identify potential roosting habitat in areas that could be affected by construction bank protection and launchable trenches along the east side of the Sacramento River. The primary engineering and construction contractors shall ensure, through coordination with the biologist that the footprint of project features and construction zones, staging areas, and access routes are designed to prevent or minimize direct or indirect effects on bat roosting habitat to the extent feasible and practicable.</p> <p>Surveys shall be conducted if implementation of program activities along the Sacramento River East Levee could result in disturbance of maternity roosting habitat. If vegetation removal or other disturbance is required during the</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	pupping season, focused surveys for maternity roost sites shall be conducted by a qualified biologist before initiating such activities. If a special-status bat maternity roost is found, a qualified biologist shall identify appropriate measures to minimize adverse effects, and provide the proposed measures to CDFW for comment. Such measures are likely to include, but not be limited to, focusing construction activities that must be conducted during the pupping season to less-sensitive periods in the pupping cycle, implementing protective buffers around active maternity roosts, conducting worker awareness training, and periodic biological monitoring.				
Cultural Resources					
CR-1	<p>Implement Procedures for Inventory and Evaluation of Historical Resources and for Eligible Resources, Implement Feasible Avoidance or Treatment Measures (for Impact CR-1, Possible Damage to or Destruction of Historic Resources)</p> <p>The agency implementing an individual program component shall inventory and evaluate historic-period resources in the project area, including elements of the built environment. At a minimum, the inventory shall include records searches at the applicable Information Center of the California Historical Resources Information System; a field reconnaissance of the program area conducted by a historian or architectural historian who meets the Secretary of the Interior's Professional Qualification Standards in History. Resource recording procedures shall be implemented consistent with California Department of Parks and Recreation (DPR) 523 forms requirements; and reporting requirements. All identified historic-period resources shall be recorded on DPR 523 forms.</p> <p>Each historic-period resource identified in the program area shall be evaluated for eligibility for listing on the CRHR and the NRHP by a qualified historian or architectural historian. The results of the identification, evaluation, and/or documentation of historical resources shall be presented in a professional report that details all methods and findings, evaluates significance of the resources (CRHR and NRHP eligibility), analyzes and interprets the results, and distributes this information to the appropriate repositories.</p> <p>For each historic-period resource which is found to be eligible for listing on the CRHR or NRHP, a determination of project effects on that resource will be made consistent with the "Significance Criteria" presented above in this section. Avoidance through project redesign is the preferred mitigation</p>	During project-specific environmental review.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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Mitigation Number	Mitigation Measure	Timing/Schedule	Implementation Responsibility	Monitoring Responsibility	Reporting
CR-2	<p>measure for resources that appear to be eligible for listing in the NRHP or CRHR, but if avoidance is not feasible, other feasible mitigation shall be identified. Such treatment measures may include detailed documentation of the resource; visual and/or auditory screening of indirect effects on historic landscapes, buildings, and public interpretation of the resource.</p> <p>Implement Procedures for Inventory and Evaluation of Archaeological Resources, Implement Feasible Avoidance or Treatment Measures (for Impact CR-2, Possible Damage to or Destruction of Identified Archaeological Resources and Impact CR-4, Possible Damage to or Destruction of Human Remains)</p> <p>The agency implementing an individual program component shall inventory and evaluate prehistoric and historic archaeological resources in the program area. At a minimum, the inventory shall include records searches at the applicable Information Center of the California Historical Resources Information System; and a pedestrian archaeological survey of undeveloped and unpaved areas; and subsurface archaeological investigations if needed to identify buried archaeological deposits. If the resource is Native American in origin, additional Native American consultation, other ethnographic research, and a search of the Native American Heritage Commission (NAHC) Sacred Lands Database shall be conducted. If the cultural resource is of an ethnographic group other than Native American, historic societies, ethnographic societies, and historic archival research shall be conducted. Additional non-invasive methods may also be warranted and should be determined in consultation with all consulting parties. Resource recording procedures shall be implemented consistent with DPR 523 forms requirements; and reporting requirements.</p> <p>The cultural resources inventory shall be conducted under the direct supervision of cultural resources specialists meeting the Secretary of the Interior's Professional Qualification Standards for the applicable field. All identified cultural resources shall be recorded on DPR 523 forms, and the location of each archaeological resource shall be recorded using a Global Positioning System device.</p> <p>Following completion of the cultural resources inventory, an inventory report shall be prepared by qualified cultural resources specialists that describes the cultural setting of the program area; the methods used in the investigation; all identified cultural resources, including archaeological sites, tribal cultural</p>	During project-specific environmental review.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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Mitigation Number	Mitigation Measure	Timing/Schedule	Implementation Responsibility	Monitoring Responsibility	Reporting
	<p>resources, traditional cultural properties (intangible resources of significance to Native American tribe, other ethnographic group, or a local community), and cultural landscapes; and recommendations for further investigations, avoidance or other management actions. Each cultural resource identified in the component program area shall be evaluated for eligibility for listing on the CRHR and NRHP. Tribal cultural resources shall be evaluated in consultation with culturally affiliated tribes and the views of consulting tribes shall be included in the report. The cultural resources inventory report shall meet the documentation standards as described in 36 CFR 800.11 and shall be prepared by individuals meeting the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738-44739).</p> <p>If ground-disturbance would be required in the vicinity of a known Native American archaeological resource, a qualified professional archaeologist in consultation with culturally affiliated Native Americans shall establish the boundaries of the resource before the commencement of any ground-disturbance. If feasible, the project activities shall be designed to prevent disturbance of the resource. If, in the judgment of the archaeologist on tribal representative, project activities could disturb the resource, the archaeologist in consultation with tribal representatives and other qualified professionals shall prepare and implement a research design and treatment plan for archaeological resources and, before any construction-related ground-disturbance begins in the vicinity of the resource, shall carry out a testing program, as appropriate, based on the plan to determine whether the resource may meet the definition of a unique archaeological resource or an historical resource. If the construction activity is part of a Federal undertaking, all actions shall be conducted in compliance with Section 106 of the NHPA as well as state laws.</p> <p>If the resource is determined to be ineligible for listing on the CRHR and the NRHP and is determined not to meet the definition of a unique archaeological resource, and is not an historical resource, no further mitigation shall be required. If the resource is found to potentially meet the definition of a unique archaeological resource or an historical resource and is of Native American origin, the archaeologist and consulting Native American tribes shall recommend additional actions determined to be necessary for the protection and documentation of the resource, as appropriate.</p> <p>Avoidance and preservation-in-place is the preferred manner of mitigating</p>				

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	<p>impacts to cultural resources and may be accomplished by several means, including planning construction to avoid archaeological sites; incorporation of sites within parks, greenspace, or other open space; covering archaeological sites; deeding a site into a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity. Recommendations for avoidance of cultural resources of Native American origin will be reviewed by the lead CEQA agency, culturally affiliated Native American tribes, and the appropriate agencies in light of factors such as costs, logistics, technological feasibility, design, technology, and social, cultural, and environmental considerations and the extent to which avoidance is consistent with project objectives.</p> <p>Recommendations for avoidance of cultural resources that are not of Native American origin will be reviewed by the lead CEQA agency and other appropriate agencies. Avoidance and design alternatives may include realignment within the program area to avoid cultural resources, modification of the design to eliminate or reduce impacts to cultural resources, or modification or realignment to avoid highly significant features within a cultural resource. For resources that are of Native American origin, culturally affiliated Native American tribes shall be invited to review and comment on these analyses and shall have the opportunity to meet with the lead CEQA agency and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.</p> <p>The agency implementing the construction activity shall ensure that required protection actions are implemented before construction begins at the site. If artifacts are recovered from significant resources that are of Native American origin, their disposition shall be determined in consultation with Native Americans and consulting State and Federal agencies. If artifacts are recovered from significant resources that are not of Native American origin, their disposition shall be determined in consultation with consulting State and Federal agencies. The results of the identification, evaluation, and/or data recovery program shall be presented in a professional report that details all methods and findings, evaluates the nature and significance of the resources, analyzes and interprets the results, and distributes this information to the appropriate repositories.</p>				

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CR-3	<p>Develop and Implement a Native American and Archeological Monitoring Plan and Conduct Archeological and Native American Monitoring of Sensitive Areas During Construction (for Impact CR-2, Possible Damage to or Destruction of Identified or Unidentified Archeological Resources; Impact CR-3, Possible Damage to or Destruction of a Tribal Cultural Resource; and Impact CR-4, Possible Disturbance, Damage to, or Destruction of Human Remains)</p> <p>If the results of the inventory of cultural resources, including the results of Native American consultation, in a program component project area indicates that portions of or all of a program area are sensitive for the presence of buried or otherwise obscured or unidentified cultural resources of any kind (Native and non-Native American), or tribal cultural resources (including Native American burials), a Native American and archaeological monitoring plan shall be developed and implemented in consultation with culturally affiliated tribes. The monitoring plan shall specify under what conditions monitoring will be conducted, the methods of monitoring, the conditions under which construction work may be stopped or slowed, the conditions under which construction work may be resumed, the roles and authority of monitors, communication protocols, and reporting requirements. Archaeological monitoring shall be conducted by or under the supervision of an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards for Archaeology. Native American monitoring shall be conducted by a Monitor or Representative of a California Native American Tribe that is traditionally and culturally affiliated with the geographic area of the project.</p>	During construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
CR-4	<p>Stop Work If Archaeological Materials are Discovered during Construction, Assess Significance of the Materials, and Implement Appropriate Avoidance or Treatment Measures, if Warranted (for Impact CR-2, Possible Damage to or Destruction of Identified or Unidentified Archeological Resources)</p> <p>If archaeological materials are inadvertently discovered during ground-disturbing activities, the agency implementing the program component shall ensure that work is stopped within 100 feet of the find, and a qualified archaeologist shall be retained to assess the significance of the find and develop appropriate treatment measures in cooperation with consulting parties, including culturally affiliated Native American Tribes if the find is a Native American archaeological site. Treatment measures typically include</p>	During construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>developing avoidance strategies or mitigating impacts through data recovery programs, such as excavation or detailed documentation, alternative mitigation, and, for sites of Native American origin, mitigation informed through tribal consultation. The appropriate treatment depends on the situation of the discovery and the views of consulting parties. Some Tribes consider data recovery programs to cause substantial adverse changes to unique historical, archaeological and tribal cultural resources; therefore, data recovery is not always the best option for mitigation.</p> <p>The agencies implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to reduce the potential for previously undiscovered cultural resources to be encountered and damaged during construction activities:</p> <ul style="list-style-type: none"> • Before the commencement of construction, a qualified professional archaeologist and a tribal monitor or representative shall give a presentation to all construction personnel regarding the likelihood and type of Native American and non-Native American resources that might be found during construction operations associated with the individual flood control projects, and measures that shall be taken in the event that potential archaeological or historical resources are found during construction. The presentation shall include providing all construction personnel with standard operating procedures and points of contact in the event of a discovery of cultural material during construction. Consulting culturally affiliated Native American Tribes shall be provided with project schedule information and points of contact in the event of a discovery of cultural material. • If unrecorded cultural resources (e.g., unusual amounts of shell, animal bone, bottle glass, ceramics, structure/building remains) are encountered during the site survey or during construction activity, all ground-disturbing activities shall be restricted within a 100-foot radius of the find or a distance determined by a qualified professional archaeologist in consultation with a tribal representative to be appropriate based on the potential for disturbance of additional cultural resource materials. A qualified archaeologist, in consultation with a monitor or representative from a culturally affiliated Native American Tribe, shall identify the materials, determine their potential to meet the definition of a unique archaeological resource or a historical resource, and formulate appropriate 				

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CR-5	<p>measures for their treatment, which shall be implemented by the agency implementing the project. Potential treatment methods for significant and potentially significant resources may include, but would not be limited to, no action (i.e., resources determined not to be significant), avoidance of the resource through changes in construction methods or project design, implementation of protection and management measures, alternative mitigation (such as funding a cultural resources program or off-site cultural resources facility), and/or implementation of a program of testing and data recovery, in accordance with all applicable Federal and State requirements.</p> <p>For unique archaeological resources and archaeological historical resources the preferred mitigation is preservation-in-place of as much of the resource as possible, where feasible, through project modification or protective measures. In some cases, archaeological data recovery can mitigate impacts that cannot be avoided.</p> <p>Implement Procedures for Inventory and Evaluation of Tribal Cultural Resources and Implement Avoidance and Minimization Measures to Avoid Significant Adverse Effects (for Impact CR-3, Possible Damage to or Destruction of a Tribal Cultural Resource)</p> <p>California Native American Tribes that are traditionally and culturally affiliated with the geographic area in which a program component is located may have expertise concerning their tribal cultural resources (California PRC Section 21080.3.1) and shall be consulted concerning the proposed project, the kind of environmental review required, tribal cultural resources that may be impacted, and measures to avoid or minimize impacts. In accordance with California PRC Section 21084.3 public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. If the implementing agency determines that the project may cause a substantial adverse change to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation measures that, if feasible, that may be considered to avoid or minimize significant adverse impacts:</p> <ol style="list-style-type: none"> 1. Avoidance and preservation of the resources in place, including, but not limited to, planning and construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria. 	During project-specific environmental review.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>2. Treating the resource with culturally appropriate dignity taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:</p> <ul style="list-style-type: none"> a) Protecting the cultural character and integrity of the resource. b) Protecting the traditional use of the resource. c) Protecting the confidentiality of the resource. <p>3. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.</p> <p>4. Protecting the resource.</p> <p>As a part of the consultation, the parties may propose mitigation measures (as broadly defined in CEQA Guidelines Section 15370), including, but not limited to, those recommended in Section 21084.3 (listed above), capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource. If the California Native American tribe requests consultation regarding alternatives to the project, recommended mitigation measures, or significant effects, the consultation shall include those topics. The consultation may include discussion concerning the type of environmental review necessary, the significance of tribal cultural resources, the significance of the project's impacts on the tribal cultural resources, and, if necessary, project alternatives or the appropriate measures for preservation or mitigation which may include a) avoiding the impact by not taking a certain action, b) minimizing impacts by limiting the action, c) rectifying the impact by repairing, rehabilitating or repairing the environment, d) reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action, or e) compensating for the impact by replacing or providing substitute resources or environments (CEQA Guidelines Section 15370).</p> <p>Any information, including, but not limited to, the location, description, and</p>				

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CR-6	<p>use of the tribal cultural resources, that is submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public without the prior consent of the tribe that provided the information. If the lead agency publishes any information submitted by a California Native American tribe during the consultation or environmental review process, that information shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. The confidential information, may, however, be exchanged between public agencies that have lawful jurisdiction over the preparation of the environmental document.</p> <p>Implement Procedures for Inadvertent Discovery of Human Remains, and Implement Protection Measures, If Necessary (for Impact CR-4, Possible Disturbance, Damage to, or Destruction of Human Remains)</p> <p>In accordance with the California Health and Safety Code, if human remains are discovered on non-federal land during ground-disturbing activities, the agency implementing the program component shall immediately halt potentially damaging excavation in the area of the burial and notify the Coroner in the county of which the discovery was made and retain the services of a professional archaeologist to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]).</p> <p>If the coroner determines that the remains are those of a Native American, he or she must contact the NAHC by phone within 24 hours of making that determination (California Health and Safety Code Section 7050.5[c]). PRC Section 5097.98 (d) states that human remains of a Native American may be an inhumation or cremation, and be in any state of decomposition or skeletal completeness. Further, any items associated with the human remains that are placed or buried with the Native American human remains are to be treated in the same manner as the remains, but do not by themselves constitute human remains. After the coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD) shall determine the ultimate treatment and disposition of the remains. The responsibilities of the agency implementing the program component for acting upon notification of a discovery of Native American human remains are identified in California PRC</p>	During construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>Section 5097.9 et seq.</p> <ul style="list-style-type: none"> Upon the discovery of Native American remains, the agency implementing the program component shall require that all construction work must stop within 100 feet of the discovery until consultation with the MLD has taken place. The MLD shall have 48 hours to complete a site inspection and make recommendations after being granted access to the site. A range of possible treatments for the remains, including nondestructive removal and analysis, preservation in place, relinquishment of the remains and associated items to the descendants, or other culturally appropriate treatment may be discussed. California PRC Section 5097.98(b)(2) suggests that the concerned parties may mutually agree to extend discussions beyond the initial 48 hours to allow for the discovery of additional remains. The following is a list of site protection measures that the agency implementing the program component shall employ: <ol style="list-style-type: none"> Record the site with the NAHC or the appropriate Information Center. Record a document with the county in which the property is located. The agency implementing the program component or that agency's authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance if the NAHC is unable to identify a MLD, or if the MLD fails to make a recommendation within 48 hours after being granted access to the site. The agency implementing the program component or that agency's authorized representative may also reinter the remains in a location not subject to further disturbance if he or she rejects the recommendation of the MLD and mediation by the NAHC fails to provide measures acceptable to the agency. The agency implementing the program component shall implement measures for the protection of the burial remains. Construction work in the vicinity of the burials shall not resume until the mitigation is completed. <p>If the human remains are of historic age and are determined to be not of Native American origin, the agency shall follow the provisions of the Health and Safety Code Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.</p>				

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Greenhouse Gas Emissions					
GHG-1	<p>Purchase Carbon Offset Credits to Offset Emissions (for Impact GHG-1, Temporary, Short-Term Generation of Greenhouse Gas Emissions during Construction)</p> <p>Based on the result of future project-level CEQA analysis and air quality modeling for the specific funded facilities, if it is determined that implementation of Mitigation Measure AIR-1 would not reduce the funded facility's construction emissions to a level that would be below applicable thresholds of significance, the agency(ies) implementing the program component shall purchase carbon offset credits to offset the proposed program component's emissions. The amount of total emissions to be offset shall be verified with the applicable air district (SMAQMD or YSAQMD) prior to purchasing offsets. Carbon offset credits shall be purchased from programs that have been approved by ARB and/or the applicable air district. Carbon offset credits will be purchased to reduce annual construction emissions to a less-than-significant level based on the applicable threshold of significance, if necessary.</p>	Before construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
Hazards and Hazardous Material					
HAZ-1	<p>Characterize Existing Wastes and Remediate the Former Old Bryte Landfill (for Impact HAZ-1, Possible Exposure of People and the Environment to Existing Hazardous Materials, Including Cortese-Listed Sites)</p> <p>The agency(ies) implementing program components shall implement the following measures:</p> <ul style="list-style-type: none"> Complete the necessary steps to characterize the existing wastes at the Old Bryte Landfill and submit necessary reports and remedial action plans for approval to DTSC and any other required agency (e.g., Central Valley RWQCB, Yolo County Department of Environmental Health). Perform all necessary activities to remediate the Old Bryte Landfill as required by DTSC and any other regulatory agency. Remediation may include, but is not limited to, removal of soil, landfill debris, and burn ash; and removal of contaminants from groundwater. Remediation shall be performed to a level sufficient for DTSC (and other regulatory agencies such as Central Valley RWQCB as necessary) to make a determination that allowing floodwaters to flow over the site through the widened Sacramento Bypass would not result in environmental contamination. 	Prior to construction activity.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>Hazardous materials shall be remediated to a level that is fully protective of human health (including drinking water and agricultural water supply), as well as the health of other mammals and aquatic life, to levels required by DTSC. All required reports documenting that remediation has been completed shall be submitted to DTSC and other regulatory agencies as necessary.</p> <ul style="list-style-type: none"> Construction of the new Sacramento Bypass setback levee (adjacent to the landfill) shall not begin until the Old Bryte Landfill has been remediated and a landfill closure order has been issued by DTSC. 				
HAZ-2	<p>Perform a Site-Specific HazMat Database Search and/or Phase I ESA, and Coordinate with Responsible Parties for Relocation of Storage Tanks and Groundwater Monitoring and Treatment Wells (for Impact HAZ-1, Possible Exposure of People and the Environment to Existing Hazardous Materials, Including Cortese-Listed Sites)</p> <p>The agency(ies) implementing program components shall implement the following measures:</p> <ul style="list-style-type: none"> Prior to the start of construction activities at any program component location, a site-specific search of relevant hazardous materials databases, including local government listings of permitted aboveground and underground storage tanks and SWRCB listings of groundwater treatment and monitoring wells shall be performed. This search may be performed as part of a site-specific Phase I ESA. Coordinate with affected landowners to relocate storage tanks and groundwater treatment and/or monitoring wells if such facilities are located within the footprint of the program component, or the alignment of the proposed funded facility shall be adjusted to avoid adverse impacts to these existing facilities. Any further investigations or remedial activities recommended in the ESAs shall be completed prior to the start of construction activities prior to start of construction on sites containing known storage tanks and groundwater wells. 	Prior to construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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HAZ-3	<p>Prepare a Worker Health and Safety Plan, and Implement Appropriate Measures to Minimize Potential Exposure to Hazardous Materials (for Impact HAZ-1, Possible Exposure of People and the Environment to Existing Hazardous Materials, Including Cortese-Listed Sites)</p> <p>The agency(ies) implementing program components shall implement the following measures:</p> <ul style="list-style-type: none"> If, during site preparation and construction activities, evidence of hazardous materials contamination is observed or suspected through either obvious or implied measures (i.e., stained or odorous soil or groundwater), construction activities shall immediately cease in the area of the find. A qualified hazardous materials specialist shall assess the site and collect and analyze soil and/or groundwater samples, if needed. If contaminants are identified in the samples, the agency(ies) implementing the program component shall employ measures, or coordinate with the landowner or other responsible party to employ measures, in accordance with Federal and State regulations before construction activities can resume at the site. A worker health and safety plan shall be prepared before the start of construction activities that identifies, at a minimum, the potential types of contaminants that could be encountered during construction activity; all appropriate worker, public health, and environmental protection equipment and procedures to be used during project activities; emergency response procedures; the most direct route to the nearest hospitals; and a Site Safety Officer. The plan shall describe actions to be taken should hazardous materials be encountered during construction, including protocols for handling hazardous materials and preventing their spread, and emergency notification procedures to local and/or state regulatory agencies. 	Prior to site-specific design and construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
HAZ-4	<p>Prepare and Implement a Fire Prevention Plan (for Impact HAZ-5, Possible Exposure to Wildland Fires)</p> <p>The agency(ies) implementing program components shall prepare and implement a fire prevention plan in coordination with the appropriate emergency service and/or fire suppression agencies of the applicable local or State jurisdictions before the start of any construction activities. The plan shall describe fire prevention and response methods, including fire precaution, requirements for spark arrestors on equipment, and suppression measures that are consistent with the policies and standards of the affected jurisdictions.</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	When heavy equipment is used for construction during the dry season, a water truck shall be maintained on the construction site. Materials and equipment required for implementation of the plan shall be available on the construction site. Training shall be provided to all construction personnel regarding fire safety, and all personnel shall be made familiar with the contents of the plan before the start of construction activities.				
Mineral Resources					
MIN-1	<p>Finalize Specific Locations of Program Components, Determine Exact Locations of Existing Wells in Relationship to Program Components, and Fund any Necessary Closure, Destruction, or Relocations of Natural Gas Wells (for Impact MIN-2, Loss of Availability of Regionally or Locally Important Mineral Resources-Natural Gas)</p> <p>After the exact locations of each of the program components have been finalized, but before the start of construction activities, the agencies implementing program components shall consult the California DOGRR to determine whether any natural gas wells are present at the locations where proposed funded facilities would be constructed. If no wells are present, then no further mitigation is required. If wells are present, the agencies implementing program components shall consult with the owners of such wells to make arrangements for continued well access. If it is necessary to close, relocate, or destroy any active or inactive wells in order to implement proposed funded facilities, the agencies implementing program components shall pay for the cost of such activities.</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual
Noise					
NOI-1	<p>Implement Noise-Reduction Measures to Reduce Construction Noise Effects (for Impact NOI-1, Possible Generation of Temporary and Short-Term Construction Noise)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to avoid significant noise-related effects during construction.</p> <p>Project-specific noise analysis shall be performed to determine the potential for construction-generated noise to affect sensitive receptors. Specific noise-reduction measures shall be implemented for each individual project (funded</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>facility) that are consistent with the noise-reduction requirements of the project depending on the applicable local noise ordinance(s), type of construction activity involved, and proximity of sensitive receptors. The following mitigation strategies shall be implemented as applicable:</p> <ul style="list-style-type: none"> • Use electrically powered equipment instead of internal combustion equipment where practicable and feasible. • Establish and enforce construction site and haul road speed limits. • Restrict the use of bells, whistles, alarms, and horns to safety warning purposes. • Equip all construction equipment with noise-reduction devices such as mufflers to minimize construction noise and operate all internal combustion engines with exhaust and intake silencers. • Prior to construction within 1,000 feet of residences, provide written notification to the potentially affected residents, identifying the type, duration, and frequency of construction activities. Notification materials shall also identify a mechanism for residents to register complaints with the appropriate jurisdiction if construction noise levels are overly intrusive or construction occurs outside the permitted hours. • Locate fixed construction equipment (e.g., compressors and generators), construction staging and stockpiling areas, and construction vehicle routes as far as feasible from noise-sensitive receptors. • Where feasible and particularly in locations subject to prolonged construction, use noise-attenuating buffers such as structures, truck trailers, or soil piles between noise generation sources and sensitive receptors. 				
NOI-2	<p>Implement Measures to Avoid Construction-Related Vibration Effects (for Impact NOI-2, Possible Temporary and Short-Term Exposure of Sensitive Receptors to Excessive Groundborne Vibration or Noise)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to avoid significant vibration-related effects during construction.</p> <p>The following groundborne vibration-reduction measures shall be implemented for each individual project (funded facility) consistent with the</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>project-specific conditions, including proximity of sensitive receptors and structures and type of construction activity involved. The following mitigation strategies shall be implemented as applicable:</p> <ul style="list-style-type: none"> Stationary vibration-production equipment shall be placed as far as practicable from residential structures. Project construction specifications shall require the contractor to limit vibrations to less than 0.2-inch per second within 75 feet at any building. Vibration monitoring equipment shall be placed at the property line adjacent to large equipment and, with owner approval, at the back of the residential structures adjacent to the large equipment. A voluntary pre- and post-construction survey shall be conducted to assess potential architectural damage from levee construction vibration at each residence within 75 feet of construction. The survey shall include visual inspection of the structures that could be affected, documentation of structures by means of photographs, video, and a level survey of the ground floor of structures. This documentation shall be reviewed with the individual owners prior to any construction activities. Affected property owners shall be notified at least 48 hours prior to the visual inspections. Post-construction monitoring of structures shall be performed to identify (and repair, if necessary) all damage, if any, from construction vibrations. Any damage shall be documented with photographs and video. This documentation shall be reviewed with the individual property owners. 				
Paleontological Resources					
PR-1	<p>Conduct Construction Personnel Education, Stop Work if Paleontological Resources are Discovered, Assess the Significance of the Find, and Prepare and Implement a Recovery Plan, as Required (for Impact PR-1, Potential to Directly or Indirectly Destroy a Unique Paleontological Resource or Site)</p> <p>To minimize the potential for destruction of or damage to potentially unique, scientifically important paleontological resources during earthmoving activities, the agencies implementing program components shall do the following:</p> <ul style="list-style-type: none"> Before the start of construction activities in the program area, construction personnel involved with earthmoving activities (including the site 	Before and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>superintendent) shall be informed of the possibility of encountering fossils, the appearance and types of fossils likely to be seen during construction activities, and proper notification procedures should fossils be encountered. This worker training may either be prepared and presented by an experienced field archaeologist at the same time as construction worker education on cultural resources or prepared and presented separately by a qualified paleontologist.</p> <ul style="list-style-type: none"> If paleontological resources are discovered during earthmoving activities, the construction crew shall notify the agencies implementing program components and shall immediately cease work in the vicinity of the find. The agencies implementing program components shall retain a qualified paleontologist to evaluate the resource and prepare a recovery plan in accordance with SVP Guidelines (1996). The recovery plan may include, but is not limited to, a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. Recommendations in the recovery plan that are determined by the agencies implementing program components to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered. 				
Recreation					
REC-1	<p>Prepare and Implement a Bicycle Detour Plan for all Bike Trails and On-Street Bicycle Routes, Provide Construction Period Information on Bicycle Facility Closures, and Coordinate with the City of Sacramento Department of Parks and Recreation and/or the City of Rio Vista Public Works Department to Allow Repair of Damage to Bicycle Facilities (for Impact REC-1, Possible Temporary and Short-term Changes in Recreational Opportunities during Project Construction Activities)</p> <p>The agencies implementing program components and their primary contractors for engineering design and construction shall implement the following measures to reduce temporary, short-term construction impacts on bicycle facilities in the program area:</p> <ul style="list-style-type: none"> Prepare a bicycle detour plan for all bike trails, including those located on the Sacramento River Parkway and the City of Rio Vista Waterfront Promenade and on-street bicycle routes in consultation with the City of 	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>Sacramento Department of Parks and Recreation and/or the City of Rio Vista Public Works Department at least 10 days before the start of construction activities, as applicable. The detour plan shall include posted signs at major entry points for bicycle trails clearly indicating closure routes, roadway markings to designate temporary bike lanes, information signs to notify motorists to share the road with bicyclists, and a contact number to call for questions or concerns.</p> <ul style="list-style-type: none"> • Maintain and implement the detour plan throughout the construction period and during all construction seasons. • Provide public information through the media and on relevant agency and/or park agency Web site(s) regarding detours and alternative access routes to bicycle facilities affected by construction of individual program components. • Coordinate with the City of Sacramento Department of Parks and Recreation to make available information to the public regarding closure of bicycle facilities and detours at least 10 days before the start of construction activities • Continue to provide public information regarding closure of bicycle facilities and detours throughout the construction period. • Upon completion of levee improvements, coordinate with the City of Sacramento Department of Parks and Recreation for the city to restore access and repair any construction-related damage to bicycle facilities to preproject conditions. 				
REC-2	<p>Prepare and Implement a Recreation Plan for all Recreation Facilities, Provide Construction Period Information on Recreation Facility Closures, and Repair Damage to Recreational Facilities (for Impact REC-1, Possible Temporary and Short-term Changes in Recreational Opportunities during Project Construction Activities)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall implement the following measures to reduce temporary, short-term construction impacts on recreation facilities in the program area:</p> <ul style="list-style-type: none"> • Prepare a construction-period recreation plan for all affected recreation 	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>facilities in consultation with the City of Sacramento Department of Parks and Recreation and/or the City of Rio Vista Public Works Department. The recreation plan shall include posted signs at major entry points for parks and recreation facilities, boat launch ramps at Miller Park and Garcia Bend Park in the City of Sacramento and the Main Street Public Dock and Boat Launch in the City of Rio Vista clearly indicating closures and estimated duration of closures, information signs to notify the public of alternate parks and recreation sites and boat launch ramps, and a contact number to call for questions or concerns. The agencies implementing program components and their primary contractors for engineering design and construction shall maintain and implement the recreation plan throughout the construction period and during all construction seasons.</p> <ul style="list-style-type: none"> • Coordinate with the City of Sacramento Department of Parks and Recreation and/or City of Rio Vista Public Works Department at least 30 days before the start of construction activities to allow for the City of Sacramento and/or City of Rio Vista to relocate activities that occur in affected parks and provide alternate access points to recreation facilities along Sacramento River. • Provide public information through the media and on the agency(ies) Web site and/or the agency(ies)' implementing program components Web site(s) regarding parks and recreation facilities and boat launch ramps affected by project construction at least 30 days before the start of construction activities. Coordinate with the City of Sacramento Department of Parks and Recreation, City of Rio Vista Public Works Department, and/or California Department of Fish and Wildlife after completion of individual program components for the agencies to restore access and repair any construction-related damage to parks and recreation facilities to preproject conditions. • Notify and coordinate with the California State Parks at least 30 days before the start of construction activities to allow for possible rerouting or rescheduling of the Excursion Train. Upon completion of individual program components, coordinate with the California State Parks to repair any construction-related damage to preproject conditions. • Notify and coordinate with Sierra Northern Railway at least 30 days before the start of construction activities to allow for possible rerouting or rescheduling of the Sacramento River Train. Upon completion of 				

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	individual program components, coordinate with Sierra Northern Railway to repair any construction-related damage to preproject conditions.				
Transportation					
TR-1	<p>Prepare and Implement a Traffic Management and Safety Assurance Plan, and Coordinate with Local Jurisdictions and the California Department of Transportation (Caltrans) as Needed (for Impact TR-1, Temporary and Short-Term Increases in Traffic on Local and Regional Roadways during Construction)</p> <p>The environmental review processes for individual program improvements shall determine whether a potential impact would be associated with construction-related traffic. If a potentially significant impact could occur, the agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to avoid and minimize potential traffic congestion impacts and traffic hazards caused by construction activities.</p> <p>a) The construction contractor shall prepare and implement a traffic management and safety assurance plan for roadways and intersections in project-related construction zones. The plan shall include provisions specifying the steps to be taken to maintain public safety during all phases of construction and shall be coordinated with the jurisdictions in which traffic effects may be significant. The plan shall include the following elements:</p> <ul style="list-style-type: none"> • Conduct worker training regarding high-collision intersections and areas along haul routes of special sensitivity (residential areas, narrow roadways, routes near education centers). • Use public notices before and during construction to inform the public of anticipated haul routes and the potential presence of slow-moving vehicles in construction zones, where needed to reduce potential traffic hazards, and encourage the use of alternative routes by the general public. • Post advanced warning of construction activities for any affected roadways that would be closed or major roadways where lane closures would occur in the local newspaper(s), distribute information to potentially affected residents, and/or coordinate with the local jurisdictions to post such warnings in highly visible locations near the affected roadways. • Temporarily relocate bicycle routes to improve safety if possible, and 	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>inform the public of such changes.</p> <ul style="list-style-type: none"> Where construction zones are adjacent to public roadways, to the extent feasible, limit the construction work zone to a width that, at a minimum, maintains alternate one-way traffic flow past the zone. Place and maintain barriers and install traffic control devices necessary for safety, as specified in Caltrans' Traffic Controls for Construction and Maintenance Work Zones and in accordance with the guidance provided by the affected local jurisdictions. Provide flagger control at construction zones to manage traffic control and flows as necessary. Limit the accumulation of project-generated mud or dirt on roadways adjacent to construction areas to the extent practicable and feasible. <p>b) If construction of proposed improvements would result in the addition of traffic (especially slow-moving traffic) on a State highway, the implementing agency shall coordinate with Caltrans to develop an appropriate traffic management plan that includes a description of the proposed traffic patterns in and out of the construction site(s) and locations for truck routes. The plan shall be submitted to Caltrans for review before the initiation of construction-related activity that could adversely affect traffic on State roadways.</p>				
TR-2	<p>Provide Pre-Notification of Construction to Emergency Service Providers, and Maintain Emergency Access or Coordinate Detours with Providers (for Impact TR-2, Possible Effects of Construction Activity on Emergency Access)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to reduce the potential for adverse effects of construction activity on emergency vehicle access.</p> <p>a) The implementing agency(ies) shall provide pre-notification of construction activity to local police, fire, and emergency service providers of the timing, location, and duration of construction activities that could affect the movement of emergency vehicles on local roadways.</p> <p>b) To the extent feasible, access for emergency vehicles shall be maintained through construction zones at all times. If through-passage cannot be ensured</p>	Prior to and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	for emergency service vehicles, appropriate detours shall be coordinated with the emergency service providers in advance of road closures.				
Utilities					
UTL-1	<p>Coordinate with Irrigation Water Supply Users Before and During All Irrigation Infrastructure Modifications and Implement Measures to Minimize Interruptions of Supply (for Impact UTL-1, Potential Disruption of Irrigation Water Supply during Construction)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented before construction begins to minimize the potential for irrigation water supply interruptions during construction:</p> <ul style="list-style-type: none"> • Coordinate the timing of all modifications to irrigation supply infrastructure with the affected infrastructure owners and water supply users. • Include detailed scheduling of the phases of modifications/replacement of existing irrigation infrastructure components in project design and in construction plans and specifications. • Plan and complete modifications of irrigation infrastructure for the nonirrigation season to the extent feasible. • Make provisions for alternative water supply, if necessary, when modification/replacement of irrigation infrastructure must be conducted during a period when it would otherwise be in normal use by an irrigator. <p>As may be appropriate based on existing land and water rights, ensure either that (1) users of irrigation water supply do not, as a result of physical interference associated with the project, experience a substantial interruption in irrigation supply when such supply is needed for normal, planned farming operations (i.e., a decrease in level of service in comparison with the existing level of service); or (2) users of irrigation water supply that experience a substantial decrease in an existing level of service that meets the established standards for the project area are compensated for losses associated with the reduction in level of service.</p>	Before and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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UTL-2	<p>Verify Utility Locations, Coordinate with Affected Utility Providers, Prepare and Implement a Response Plan, and Conduct Worker Training with Respect to Accidental Utility Damage (for Impact UTL-2, Potential Disruption of Utility Service during Construction)</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall require the following measures are implemented before construction begins to avoid and minimize potential damage to utilities, infrastructure, and service disruptions during construction:</p> <ul style="list-style-type: none"> • Coordinate with applicable utility and service providers to implement orderly relocation of utilities that need to be removed or relocated. • Provide notification of any potential interruptions in service to the appropriate agencies and affected landowners. • Verify through field surveys and the use of the Underground Service Alert services the locations of buried utilities in the program area, including natural gas, petroleum, and sewer pipelines. Any buried utility lines shall be clearly marked in the area of construction (e.g., in the field) and on the construction specifications in advance of any earthmoving activities. • Prepare and implement an emergency response plan that addresses potential accidental damage to a utility line. The emergency response plan shall identify chain-of-command rules for notification of authorities and appropriate actions and responsibilities regarding the safety of the public and workers. A component of the emergency response plan will include worker education training in response to such situations. • Stage utility relocations during construction to minimize interruptions in service. 	Before and during construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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Water Quality WQ-1 (BIO-F3)	<p>Implement Standard Best Management Practices (BMPs), Prepare and Implement a Storm Water Pollution Prevention Plan, and Comply with National Pollutant Discharge Elimination System Permit Conditions (for Impact WQ-1, Possible Water Quality Effects from Stormwater Runoff, Erosion, and Spills Associated with Construction).</p> <p>The agency(ies) implementing program components and their primary contractors for engineering design and construction shall ensure that the following measures are implemented to avoid and minimize potential effects of construction activities on water quality.</p> <p>The agency(ies) implementing program components shall file a notice of intent (NOI) with the Central Valley RWQCB. Final design and construction plans shall require the implementation of standard erosion, siltation, and good housekeeping BMPs. Each contractor for a construction project shall be required to prepare a SWPPP and comply with the conditions of the NPDES general stormwater permit for construction activity. For work conducted under NPDES authorization, the SWPPP shall describe the construction activities to be conducted, BMPs that will be implemented to prevent contaminated stormwater discharges into waterways, and inspection and monitoring activities that will be conducted. Construction and post-construction monitoring shall be conducted to ensure that all erosion-control efforts are performing as designed.</p> <p>Construction and post-construction monitoring shall be conducted to ensure that all erosion-control efforts are performing as designed. BMPs shall include pollution prevention measures (erosion and sediment control measures and measures to control nonstormwater discharges and hazardous spills), demonstration of compliance with all applicable RWQCB and other applicable water quality standards, local and regional erosion and sediment control standards, identification of responsible parties, detailed construction timelines, and a BMP monitoring and maintenance schedule. BMPs are applied to meet the maximum extent practicable and best conventional technology/best available technology requirements and to address compliance with water quality standards. A construction and post-construction monitoring program shall be implemented to ensure compliance and effectiveness of BMPs. The SWPPP shall include, at a minimum, the following BMPs:</p> <ul style="list-style-type: none"> • Ground disturbance shall be limited to construction areas, including 	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>necessary access routes and staging areas. The number of access routes, size of staging areas, and total area of each site-specific project activity shall be limited to the minimum necessary. When possible, existing access routes and points shall be used. All roads, staging areas, and other facilities shall be placed to avoid and limit disturbance to river and creek banks and habitat as much as possible.</p> <ul style="list-style-type: none"> To minimize ground and vegetation disturbance during project construction, the limits of each site-specific project shall be clearly marked, including the boundaries of designated equipment staging areas; ingress and egress corridors; stockpile areas for spoils disposal, soil, and materials; and equipment exclusion zones. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete project construction and operations. If vegetation removal is required within project access or staging areas, the disturbed areas shall be replanted or reseeded with native species and monitored and maintained to ensure the revegetation effort is successful. If erosion control fabrics are used in revegetated areas, they shall be slit in appropriate locations as necessary to allow for plant root growth. The amount of rock riprap and other materials used for bank protection shall be limited to the minimum needed for erosion protection and establishment of planting benches. All pesticides/herbicides used to control nonnative vegetation shall be used in accordance with label directions. Methods and materials used for herbicide application shall be in accordance with DWR's most current guidelines on herbicide use and with laws and regulations administered by the California Department of Pesticide Regulation. Construction materials such as portable equipment, vehicles, and supplies, including chemicals, shall be stored at designated construction staging areas. Erosion control measures that minimize soil or sediment from entering waterways and wetlands shall be installed, monitored for effectiveness, and maintained throughout construction activities. If use of erosion control fabrics is necessary, tightly woven fiber netting 				

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	<p>(mesh size less than 0.25-inch) or similar material shall be used to minimize potential for small animals to become entangled. Coconut coir matting is an acceptable erosion control material, but no plastic mono-filament matting shall be used. The edge of the material shall be buried in the ground to prevent animals from crawling underneath the material.</p> <ul style="list-style-type: none"> • No material shall be placed in a manner or location where it can be eroded by normal or expected high flows. Jute netting or another non-monofilament erosion control fabric shall be used to cover soil that is placed over or mixed into riprap or other revetment materials. • Precautions to minimize turbidity/siltation shall be implemented during construction. This may require placing barriers (e.g., silt curtains) to prevent silt and/or other deleterious materials from entering downstream reaches. • Performance of sediment and turbidity control barriers shall be inspected at least once each day during construction to ensure they are functioning properly. Should a control barrier not function effectively, it shall be immediately repaired or replaced. Additional controls shall be installed as necessary. • Sediment shall be removed from sediment controls once the sediment has reached one-third of the exposed height of the control. Sediment collected in these devices shall be disposed of away from the collection site at designated upland disposal sites. • Water containing mud or silt from construction activities shall be treated by filtration, or retention in a settling pond, adequate to prevent muddy water from entering live waterways. • All disturbed soils shall undergo appropriate erosion control treatment (e.g., sterile straw mulching, seeding, planting) prior to the end of the construction season, or prior to October 15, whichever comes first. 				

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WQ-2	<p>Prepare and Implement a Spill Prevention and Control Plan (for Impact WQ-2, Possible Water Quality Effects from Stormwater Runoff, Erosion, and Spills Associated with Construction).</p> <p>The agency(ies) implementing the program components and their primary construction contractors shall prepare a written spill prevention and control plan (SPCP). The SPCP and all material necessary for its implementation shall be accessible on-site prior to initiation of project construction and throughout the construction period. The SPCP shall include a plan for the emergency cleanup of any spills of fuel or other material. Employees shall be provided the necessary information from the SPCP to prevent or reduce the discharge of pollutants from construction activities to waters and to use the appropriate measures should a spill occur. In the event of a spill, work shall stop immediately and CDFW, U.S. Fish and Wildlife Service, RWQCB, National Marine Fisheries Service, and USACE shall be notified within 24 hours. The SPCP shall contain, at a minimum, the following required measures to protect water quality:</p> <ul style="list-style-type: none"> • All debris, sediment, rubbish, vegetation, or other material removed from the construction areas shall be disposed of at an approved disposal site. • All litter, debris, unused materials, equipment, and supplies that cannot reasonably be secured shall be removed daily from the project work area and deposited at an appropriate disposal or storage site. • All work pads and construction debris shall be removed from the work area immediately upon project completion. • Every reasonable precaution shall be exercised to protect streams and other waters from pollution with fuels, oils, and other harmful materials. Safer alternative products (such as biodegradable hydraulic fluids) shall be used where feasible. • Petroleum products, chemicals, fresh cement, and construction by-products containing, or water contaminated by, any such materials shall not be allowed to enter flowing waters and shall be collected and transported to an authorized upland disposal area. • Gas, oil, other petroleum products, or any other substances that could be hazardous to aquatic life and resulting from project-related activities, shall 	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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WQ-3	<p>be prevented from contaminating the soil and/or entering waters of the state and/or waters of the United States.</p> <ul style="list-style-type: none"> Construction vehicles and equipment shall be properly maintained to prevent contamination of soil or water from external grease and oil or from leaking hydraulic fluid, fuel, oil, and grease. Vehicles and equipment shall be checked daily for leaks. If leaks are found, the equipment shall be removed from the site and shall not be used until the leaks are repaired. Equipment shall be refueled and serviced at designated refueling and staging sites located on the crown or landside of the levee and at least 50 feet from active stream channels or other water bodies. All refueling, maintenance, and staging of equipment and vehicles shall be conducted in a location where a spill shall not drain directly toward aquatic habitat. Appropriate containment materials shall be installed to collect any discharge, and adequate materials for spill cleanup shall be maintained on-site throughout the construction period. All heavy equipment, vehicles, and supplies shall be stored at the designated staging areas at the end of each work period. Storage areas for construction material that contains hazardous or potentially toxic materials shall have an impermeable membrane between the ground and the hazardous material and shall be bermed to prevent the discharge of pollutants to groundwater and runoff water. All materials placed in streams, rivers, or other waters shall be nontoxic and shall not contain coatings or treatments or consist of substances deleterious to aquatic organisms that may leach into the surrounding environment in amounts harmful to aquatic organisms. <p>Implement Provisions for Dewatering (for Impact WQ-2, Effects on Groundwater or Surface Water Quality Resulting from Contact with the Water Table during Construction).</p> <p>Before discharging any dewatered effluent to surface water, the agency(ies) implementing program components and their primary construction contractors shall obtain a Low Threat Discharge and Dewatering NPDES permit, or an Individual Permit from the Central Valley RWQCB if the dewatering is not covered under the RWQCB's NPDES Construction General Permit. The</p>	Prior to, during, and after construction activities.	The agency(ies) implementing the program component	SAFCA (through Project Management Plans)	Annual

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	<p>dewatering permit includes extensive water quality monitoring in order to ensure that the discharges adhere to the strict effluent and receiving water quality criteria outlined in the permit. As part of the permit, the permittee shall design and implement measures as necessary to meet the discharge limits identified in the relevant permit. For example, if dewatering is needed during the construction of piers for the floodwall, the dewatering permit would require treatment or proper disposal of the water prior to discharge if it is contaminated or contains a high concentration of sediment. These measures shall be selected to achieve maximum sediment removal and represent the best available technology that is economically achievable.</p> <p>Implemented measures could include the retention of dewatering effluent until particulate matter has settled before it is discharged, use of infiltration areas, and other BMPs. Final selection of water quality control measures would be subject to approval by the Central Valley RWQCB. The agencies implementing program components shall verify that coverage under the appropriate NPDES permit has been obtained before allowing dewatering activities to begin. The agencies implementing program components or their authorized agent shall perform routine inspections of the construction area to verify that the water quality control measures are properly implemented and maintained. The agencies implementing program components shall notify their contractors immediately if there is a non-compliance issue and shall require compliance.</p>				