

Mitigation Monitoring and Reporting Program
Yuba Goldfields 200-Year Flood Protection Project



State Clearinghouse No. 2014062045

Prepared for:
Three Rivers Levee Improvement Authority



September 2015

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MITIGATION MONITORING AND REPORTING PROGRAM

INTRODUCTION

In accordance with the California Environmental Quality Act (CEQA), the Three Rivers Levee Improvement Authority (TRLIA) has prepared a final environmental impact report (FEIR), which includes the draft EIR, that identifies potentially significant impacts related to the construction and operation of the Yuba Goldfields 200-Year Flood Protection Project (Proposed Project). The FEIR also identifies mitigation measures that would be implemented to reduce impacts to a less-than-significant level.

Section 21081.6 of the California Public Resources Code, and Sections 15091(d) and 15097 of the State CEQA Guidelines, require public agencies “to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” A mitigation monitoring and reporting program (MMRP) is required for the Proposed Project because the FEIR identifies potentially significant adverse impacts related to construction and implementation activities, and mitigation measures have been identified to mitigate those impacts.

TRLIA is the lead agency that must adopt the MMRP for the Proposed Project. Adoption of this MMRP would occur along with approval of the Proposed Project.

PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM

This MMRP has been prepared to ensure that all required mitigation measures are implemented and completed according to schedule and maintained in a satisfactory manner during the construction and operation of the project. The MMRP may be modified by TRLIA during project implementation, as necessary, in response to changing conditions or other refinements. **Table 1** has been prepared to assist the responsible parties in implementing the MMRP. The table identifies individual mitigation measures, monitoring/mitigation timing, the person and/or agency responsible for implementing the measure, the monitoring and reporting procedure, and space to confirm implementation of the mitigation measures. The numbering of mitigation measures follows the numbering sequence found in the FEIR. However, mitigation measures are not always consecutively numbered in **Table 1** because mitigation measures that do not apply to the Proposed Project (Alternative 4) have been omitted.

ROLES AND RESPONSIBILITIES

Unless otherwise specified herein, TRLIA is responsible for taking all actions necessary to implement the mitigation measures according to the specifications provided for each measure, and for demonstrating that the action has been successfully completed. TRLIA, at its discretion, may delegate implementation responsibility or portions thereof to a licensed contractor or other designated agent as long as TRLIA maintains final responsibility for ensuring that the actions are taken.

TRLIA would be responsible for overall administration of the MMRP and for verifying that TRLIA staff members and/or the construction contractor has completed the necessary actions for each measure.

ANNUAL REPORTING

The project manager for TRLIA shall prepare monitoring reports annually that describe the compliance of the activity with the required mitigation measures. Annual reporting on implementation of these measures will end when construction is completed. Information regarding inspections and other requirements shall be compiled and explained in each report. The report shall be designed to simply and clearly describe whether mitigation measures have been adequately implemented. At a minimum, each report shall identify the mitigation measures or conditions to be monitored for implementation, whether compliance with the mitigation measures or conditions

has occurred, the procedures used to assess compliance, and whether further action is required. The monitoring report shall be presented to TRLIA for review and decisions regarding any required action or determination.

MITIGATION MONITORING PLAN

The annual report will verify the implementation of mitigation measures. **Table 1** should guide TRLIA in its evaluation and should be the basis for annual reporting.

The column categories identified in **Table 1** are described below:

- ▶ **Mitigation Number**—This column lists the mitigation measures according to the number in the IS/MND.
- ▶ **Mitigation Measure**—This column provides the text of the mitigation measures identified in the IS/MND.
- ▶ **Mitigation Implementation Timeframe**—This column lists the time frame in which the mitigation will take place.
- ▶ **Monitoring Timeframe**—This column lists the time frame in which mitigation implementation will be monitored.
- ▶ **Responsibility for Verification of Compliance**—This column identifies the entity(ies) responsible for verifying compliance with the requirements of the mitigation measure.
- ▶ **Performance Criteria**—This column describes what action(s) are needed to verify implementation.
- ▶ **Date Compliance Completed**—The “Date Completed” column is to be dated and initialed by the project manager or his/her designee, based on the documentation provided by the construction contractors, its agents (qualified individuals), or through personal verification by TRLIA.

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
Agriculture and Forestry Resources						
3.3-1	<p>Minimize Important Farmland Conversion to the Extent Practicable and Feasible.</p> <p>TRLIA and its construction contractor(s) will implement the following measures with regard to Prime Farmland and Unique Farmland to minimize impacts on these lands:</p> <ul style="list-style-type: none"> ▶ To the extent practicable and feasible, when constructing the levee improvements, salvage the upper 2 feet of soil from the construction footprint and redistribute the soil to agricultural lands near but outside of the construction disturbance footprint that are not designated as Important Farmland. By agreement between the implementing agencies or landowners of affected properties and the recipient(s) of the topsoil, the recipient(s) will be required to use the topsoil for agricultural purposes. ▶ By agreement between TRLIA and Yuba County, acquire agricultural conservation easements in Yuba County at a 1:1 ratio (i.e., 1 acre on which easements are acquired to 1 acre of Important Farmland removed from agricultural use) that provide in-kind or similar resource value protection. These lands will be held by land trusts or local governments who will be responsible for maintaining these lands in agricultural use. 	<p>Topsoil would be salvaged and reused before the start of project construction.</p> <p>Conservation easements would be acquired after the final acreage of Important Farmland permanently converted has been determined.</p>	<p>During activities identified under “Mitigation Measure”</p>	<p>TRLIA and its construction contractor(s)</p>	<p>Loss of important farmland soils is prevented to the extent feasible and practical.</p> <p>Prime Farmland and Unique Farmland is protected and maintained to the extent feasible and practical so loss of Important Farmland is minimized.</p>	
Air Quality						
3.4-1a	<p>Implement FRAQMD Standard Mitigation Measures during Project Construction.</p> <p>TRLIA and its construction contractor will implement FRAQMD’s Standard Mitigation Measures, listed below, to reduce construction-related emissions of fugitive dust (i.e., PM₁₀ and PM_{2.5}).</p> <ul style="list-style-type: none"> ▶ Develop and submit a fugitive dust control plan to FRAQMD. ▶ Control exhaust emissions from construction equipment so that they do not exceed FRAQMD Regulation III, Rule 3.0, “Visible Emissions Limitations” (40% opacity or Ringelmann 2.0). ▶ Ensure that all construction equipment is properly tuned and maintained before and during all on-site operations. 	<p>Before the start of ground-disturbing activities and during construction</p>	<p>Throughout all construction activities</p>	<p>TRLIA and its construction contractors</p>	<p>Fugitive dust control plan is developed and submitted to FRAQMD, and FRAQMD measures are implemented such that pollutant emissions are minimized.</p>	

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	<ul style="list-style-type: none"> ▶ Limit idling time to 5 minutes. (State of California idling rule: Commercial diesel vehicles—13 CCR 2485, effective 2/1/2005; off-road diesel vehicles—13 CCR 2449, effective 5/1/2008). ▶ Use existing power sources (e.g., power poles) or clean-fuel generators rather than temporary sources of power generation whenever possible. ▶ Register portable engines and portable engine-driven equipment units used at the same project worksite, with the exception of on-road and off-road motor vehicles, as required by ARB’s Portable Equipment Registration Program. 					
3.4-1b	<p>Implement FRAQMD Best-Available Mitigation Measures during Project Construction.</p> <p>TRLIA and its construction contractors will implement FRAQMD best-available mitigation measures for fugitive dust to reduce PM₁₀ emissions to below FRAQMD thresholds.</p> <ul style="list-style-type: none"> ▶ Suspend all grading activities when winds exceed 20 miles per hour or when winds carry dust beyond the property line despite implementation of all feasible dust control measures. ▶ Water construction sites as directed by the Yuba County Department of Public Works or FRAQMD and as necessary to prevent fugitive dust violations. ▶ Make an operational water truck available at all times. Apply water to control dust as needed to prevent visible emissions violations and off-site dust impacts. ▶ Cover on-site dirt piles or other stockpiled particulate matter, install windbreaks, and employ water and/or soil stabilizers to reduce windblown dust emissions. Incorporate the use of approved nontoxic soil stabilizers according to manufacturer’s specifications to all inactive construction areas. ▶ Operate all transfer processes involving a free fall of soil or other particulate matter in such a manner as to minimize the free-fall distance and fugitive dust emissions. 	During construction	Throughout all construction activities	TRLIA and its construction contractors	Identified FRAQMD measures are implemented such that pollutant emissions are minimized.	

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	<ul style="list-style-type: none"> ▶ Apply approved chemical soil stabilizers according to the manufacturers' specifications, to all inactive construction areas (previously graded areas that remain inactive for 96 hours) including unpaved roads and employee/equipment parking areas. ▶ To prevent track-out, install wheel washers where project vehicles and/or equipment exit onto paved streets from unpaved roads. Wash vehicles and/or equipment prior to each trip. Alternatively, install a gravel bed as appropriate at vehicle/equipment site exit points to effectively remove soil buildup on tires and tracks to prevent/diminish track-out. ▶ Sweep paved streets frequently (water sweeper with reclaimed water recommended; wet broom) if soil material has been carried onto adjacent paved, public thoroughfares from the project site. ▶ Reduce traffic speeds on all unpaved surfaces to 15 miles per hour or less and reduce unnecessary vehicle traffic by restricting access. Provide appropriate training, on-site enforcement, and signage. 					
3.4-1c	<p>Use Tier 3 Construction Equipment.</p> <p>TRLIA and its construction contractors will implement measures to reduce the largest portion of construction-related NO_x emissions, emissions from off-road construction equipment. Specifically, all off-road diesel engines rated at 50 horsepower or more that are used for project construction but are not registered under ARB's Statewide Portable Equipment Registration Program will meet at least the Tier 3 California Emissions Standards for Off-Road Compression-Ignition Engines (13 CCR 2423[b][1]), unless such an engine is not available for a particular item of equipment. If a Tier 3 engine is not available for any off-road engine larger than 50 horsepower, that engine will have tailpipe retrofit controls that reduce exhaust emissions of NO_x and PM to no more than Tier 3 emission levels. Tier 2 engines will be allowed on a case-by-case basis only when TRLIA has documented that no Tier 3 equipment or emissions equivalent retrofit equipment is available for a particular equipment type that must be used to complete project construction. This will be documented with signed written correspondence by the appropriate construction contractor, along with documented correspondence with at least two construction equipment rental firms.</p>	During construction	Throughout all construction activities	TRLIA and its construction contractors	Use of off-road construction equipment with Tier 3 engines or engines with tailpipe retrofit controls to the extent feasible and practical is documented and implemented such that construction-related NO _x emissions are minimized.	

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Biological Resources						
3.5-1	<p>Minimize and Compensate for Loss of Federally Protected Wetlands.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on federally protected wetlands:</p> <ul style="list-style-type: none"> ▶ A delineation of waters of the United States will be conducted according to methods established in the USACE wetlands delineation manual (Environmental Laboratory 1987) and Arid West Supplement (Environmental Laboratory 2008). The delineation will map and quantify the acreage of all jurisdictional habitats on the project site and will be submitted to USACE for verification. ▶ The construction contractor(s) and maintenance personnel will implement best management practices (BMPs) and water quality/turbidity controls to minimize increased turbidity or sediment input into the Yuba River during installation and maintenance of scour protection elements (engineered logjam structures), construction activities along the riverbank, and maintenance of the Waterway 13 fish barrier and Yuba-Brophy Canal pipe and gates. A water quality monitoring plan will be developed and implemented to document and minimize water quality conditions when feasible. ▶ Personnel responsible for weed control along the patrol road will apply herbicides according to the label, in accordance with applicable federal and state laws, including those pertaining to herbicide application in or near wetlands. ▶ Impacts on wetlands in grasslands of the eastern portion of the Alternative 4 footprint will be avoided or minimized wherever feasible by considering the locations of seasonal wetlands during development of the final project footprint, including the levee and construction staging areas and access roads. Protective fencing will be erected and maintained to minimize impacts on seasonal wetlands that will be preserved adjacent to the construction footprint. 	Before the start of any activities in the Yuba River or ground-disturbing activities in or adjacent to wetlands in grasslands of the eastern portion of the Alternative 4 footprint.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>Disturbance to wetland habitat is prevented to the extent feasible and practical.</p> <p>BMPs and water quality turbidity controls are implemented such that turbidity and sediment discharges in the Yuba River are minimized during construction.</p> <p>A wetland mitigation plan is implemented if waters of the U.S. are filled and permanently filled wetlands are replaced, restored, or compensated for through the purchase of credits so no net-loss” of habitat occurs.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to potentially occurring sensitive species.</p>	

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	<ul style="list-style-type: none"> ▶ If impacts on waters of the United States cannot be avoided, a permit for the filling of wetlands and other waters of the United States as well as Section 401 certification will be obtained, if required. Any permit and certification will be obtained before any groundbreaking activity begins within 50 feet of, or fill or dredged material is discharged into, any wetland or other water of the United States. All requirements of any permits obtained will be fulfilled in the time frames required by the permits. ▶ Unavoidable permanent fill will be replaced or restored on a “no-net-loss” basis. The specific acreages, locations, and methods used for such replacement or restoration will be agreeable to USACE and the Central Valley RWQCB (depending on agency jurisdiction), as determined during the Section 401 and Section 404 permitting processes, respectively, if applicable. Compensation for potential loss of seasonal wetlands will likely occur through the purchase of credits from a USACE-approved mitigation bank. ▶ If waters of the United States will be filled, a wetland mitigation plan will be prepared and implemented detailing how the loss of aquatic functions will be replaced. The mitigation plan will describe compensation ratios for acres filled. If mitigation credits are not available, the plan will also describe mitigation sites, a monitoring protocol, annual performance standards, and final success criteria for created or restored habitats, and corrective measures to be applied if performance standards are not met. ▶ If mitigation includes the dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation plan. Specifically, the plan will list responsible parties for long-term management, conservation easement holders, and long-term management requirements as appropriate to provide long-term habitat viability and protection. ▶ A worker environmental awareness program for all personnel involved in project implementation will be developed and conducted in coordination with a qualified biologist before activities begin on the project site. The program will include relevant information regarding sensitive biological resources, 					

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	including applicable regulations; locations of sensitive habitats; and identification, habitat requirements, and life history of special-status species. The worker environmental awareness program will describe appropriate avoidance and minimization measures for each sensitive resource that has the potential to occur on the project site and will outline what to do and whom to contact if any protected species is encountered.					
3.5-2	<p>Minimize and Compensate for Loss of Riparian and Vernal Pool Habitats.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on sensitive habitats:</p> <ul style="list-style-type: none"> ▶ Mitigation Measure 3.5-1 will be implemented. ▶ Impacts on riparian habitat will be avoided and/or minimized by considering the location of riparian habitat patches and avoiding them when feasible during development of the final project footprint, including the embankment or levee, on-site borrow locations, and construction staging areas. A fenced, 50-foot protective buffer will be erected and maintained during construction when feasible to minimize impacts on riparian habitat that will be preserved adjacent to the construction footprint. ▶ Unavoidable impacts on riparian habitat will be compensated for with in-kind replacement by vegetation type (e.g., willow scrub, riparian scrub, riparian forest) at a 1:1 replacement ratio, based on the acreage removed. Replacement planting may occur on-site or at a nearby suitable location in the project vicinity that will not be subject to future vegetation removal. ▶ If vernal pools are not determined to be jurisdictional under CWA Section 404 and compensation measures described in Mitigation Measure 3.5-1 do not apply, loss of vernal pools will be compensated at a 1:1 replacement ratio, based on the acreage removed. Compensation for loss of vernal pools will likely occur through the purchase of credits from a CDFW-approved mitigation bank. 	Before ground-disturbing activities in or adjacent to vernal pools or areas containing riparian vegetation and after construction (for replacement planting).	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>Disturbance to riparian habitat and vernal pool habitats are prevented to the extent feasible and practical.</p> <p>Riparian replacement plantings are installed and maintained or purchase of mitigation credits completed so no net loss of riparian and vernal pool habitat occurs.</p> <p>Protective barriers and/or fencing to protect sensitive areas are installed and maintained throughout project construction.</p>	

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	<ul style="list-style-type: none"> ▶ A mitigation plan will be prepared and implemented detailing how the loss of riparian and/or vernal pool habitats that cannot be avoided will be compensated. The mitigation plan will describe compensation ratios for acres lost, mitigation sites, a monitoring protocol, annual performance standards and final success criteria for created or restored habitats, and corrective measures to be applied if performance standards are not met. ▶ If mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation plan. Specifically, the plan will list responsible parties for long-term management, conservation easement holders, and long-term management requirements as appropriate to ensure long-term habitat viability and protection. 					
3.5-3	<p>Minimize Potential Loss of Special-Status Plants.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternative on special-status plants:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ A qualified botanist will conduct protocol-level surveys for all potentially occurring vernal pool species in grassland within the eastern portion of the Alternative 4 footprint that could be affected. All plant species encountered will be identified to the taxonomic level necessary to determine species status. The surveys will be conducted during the specific blooming period for the species with potential to occur on the project site. Results of the survey will be documented in a letter report and submitted to CDFW. If no special-status plants are found, no further mitigation is required. ▶ If special-status plants are detected, impacts will be avoided wherever possible by considering plant locations during development of the final project footprint, including the levee and construction staging areas. A fenced, 50-foot protective barrier will be erected and maintained during construction to minimize 	Before ground-disturbing activities in areas supporting suitable habitat for special-status vernal pool plant species.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified botanist completes preconstruction survey and verifies absence of vernal pool plant species, and avoidance and minimization measures are implemented for any encountered species.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to potentially occurring sensitive plant species.</p> <p>Protective barriers and/or fencing to protect sensitive areas</p>	

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	<p>impacts on occupied habitat that will be preserved adjacent to the construction footprint.</p> <ul style="list-style-type: none"> ▶ If direct loss of special-status plants cannot be avoided, a mitigation and monitoring plan will be developed and implemented to minimize loss. ▶ If relocation efforts are part of the mitigation and monitoring plan, the plan will outline methods for relocating unavoidable populations to other areas of suitable habitat that occur on-site or at a nearby suitable location in the project vicinity that will not be subject to future vegetation removal. The mitigation and monitoring plan will include details about the relocation methods to be used, receptor site preparation, long-term protection, and management. ▶ If off-site mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation and monitoring plan. Specifically, the plan will list responsible parties for long-term management, conservation easement holders, and long-term management requirements as appropriate to target the preservation of long-term viable populations. 				<p>are installed and maintained throughout project construction.</p> <p>Replacement plantings are installed and maintained or purchase of mitigation credits completed to minimize loss of special-status plant species.</p>	
3.5-6	<p>Minimize and Compensate for Removal of Elderberry Shrubs.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on valley elderberry longhorn beetle:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ Protocol-level elderberry shrub surveys will be conducted in accordance with USFWS requirements (USFWS 1999). All elderberry shrubs with potential to be affected by project activities will be mapped and the number of stems greater than 1 inch in diameter on each shrub that may require removal will be counted. (Elderberry plants with no stems measuring 1 inch or greater in diameter at ground level are considered unlikely to be habitat for the beetle because of their small size and/or immaturity [USFWS 1999].) 	Before ground-disturbing activities in areas adjacent to elderberry shrubs.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified botanist completes preconstruction survey and verifies absence of elderberry shrubs, and avoidance and minimization measures are implemented for any encountered shrubs.</p> <p>Worker environmental awareness program is implemented such</p>	

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	<ul style="list-style-type: none"> ▶ Impacts on elderberry shrubs will be avoided and/or minimized by considering the location of elderberry shrubs and avoiding them when feasible during development of the final footprint for the selected alternative, including the embankment or levee, on-site borrow locations, and construction staging areas. A fenced avoidance area will be established to protect all elderberry shrubs located adjacent to construction areas. High-visibility fencing will be placed at least 100 feet from the dripline of the shrubs, unless otherwise approved by USFWS, to prevent encroachment of construction personnel and vehicles. ▶ If maintaining 100-foot protective buffers around elderberry shrubs with a stem greater than 1 inch in diameter at ground level is not feasible, TRLIA will obtain technical assistance from USFWS regarding minimization and avoidance measures and will implement all feasible measures recommended by USFWS to minimize adverse impacts on and avoid take of valley elderberry longhorn beetle. Such measures may include, but not necessarily be limited to, implementing 20-foot protective buffers around elderberry shrubs with a stem greater than 1 inch in diameter at ground level, restoring any areas within 100 feet of elderberry shrubs that are disturbed by project activities, and prohibiting use of insecticides, herbicides, and fertilizers within 100 feet of elderberry shrubs. ▶ If removing elderberry shrubs cannot be avoided, consultation with USFWS will be required, and an incidental take permit may be required. During this consultation, an appropriate and feasible mitigation plan will be developed and provided to USFWS for approval, prior to implementation by TRLIA. The plan may include, but will not necessarily be limited to, transplanting shrubs to a conservation area and planting additional seedlings or cuttings at a ratio ranging from 1:1 to 1:6, depending on the number of stems greater than or equal to 1 inch in diameter and whether beetle exit holes are found on the shrubs on-site (USFWS 1999). If transplanting shrubs to be removed and planting elderberry seedlings is not feasible, purchasing credits at a USFWS-approved mitigation bank may be identified as alternative mitigation. 				<p>that there are no impacts to potentially occurring elderberry shrubs.</p> <p>Protective barriers and/or fencing to protect sensitive areas are installed and maintained throughout project construction.</p> <p>Replacement plantings are installed and maintained or purchase of mitigation credits completed to minimize loss of elderberry plant species.</p>	

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	<ul style="list-style-type: none"> ▶ If shrub transplantation and seedling planting will occur, the mitigation plan will specify how to manage the elderberry transplant area to ensure that the appropriate habitat conditions are provided. At a minimum, the plan will describe requirements for transplanting shrubs that require removal; specify the number of replacement elderberry shrubs and associated native plants to be established and associated success criteria; specify remedial measures to be undertaken if survival success criteria are not met; and describe short- and long-term maintenance and management, including funding. ▶ If off-site mitigation includes dedicating conservation easements, purchasing mitigation credits, or implementing other off-site conservation measures, the details of these measures will be included in the mitigation plan. The plan will list responsible parties for long-term management, conservation easement holders, and long-term management requirements as appropriate to target long-term habitat viability and preservation. 					
3.5-7	<p>Minimize and Compensate for Loss of Vernal Pool Branchiopods.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternative on vernal pool branchiopods and their habitat:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ A qualified biologist will conduct an assessment to determine whether suitable habitat for Conservancy fairy shrimp, vernal pool fairy shrimp, and/or vernal pool tadpole shrimp is present in or within 250 feet of the project site. Results of the habitat assessment will be documented in a letter report and submitted to USFWS. If no suitable habitat is present, no further mitigation is required. ▶ If suitable habitat for vernal pool branchiopods is identified, impacts on the habitat will be avoided wherever possible by considering its location during development of the final footprint, including the levee and construction staging areas. A fenced, 250-foot protective buffer will be erected and maintained during 	Before ground-disturbing activities in areas supporting suitable habitat for special-status vernal pool branchiopods.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified biologist completes preconstruction survey and verifies absence of suitable vernal pool branchiopods habitat, and avoidance and minimization measures are implemented for any encountered suitable habitat.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to potentially</p>	

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	<p>construction to minimize impacts on suitable habitat that will be preserved adjacent to the construction footprint.</p> <ul style="list-style-type: none"> ▶ If maintaining 250-foot protective buffers around suitable habitat is not feasible, TRLIA will obtain technical assistance from USFWS regarding minimization and avoidance measures and will implement all feasible measures recommended by USFWS to minimize adverse impacts on and avoid potential take of Conservancy fairy shrimp, vernal pool fairy shrimp, and vernal pool tadpole shrimp. Such measures may include but not necessarily be limited to implementing buffers of a reduced size and measures designed to maintain adequate ponding and otherwise protect the integrity of the pools. ▶ If it is determined that take cannot be avoided, TRLIA may conduct protocol-level focused surveys for Conservancy fairy shrimp, vernal pool fairy shrimp, and vernal pool tadpole shrimp to determine presence or absence, in accordance with USFWS protocols (USFWS 1996). If survey results indicate that the species are absent from habitat that would be affected, and the results are accepted by USFWS, no further mitigation is required. ▶ If protocol-level surveys are not conducted or results indicate the presence of any listed branchiopod species, TRLIA will consult with USFWS and an incidental take permit may be required. During this consultation, an appropriate and feasible mitigation plan will be developed and provided to USFWS for approval. Mitigation measures may include preserving and enhancing vernal pool habitat outside of the project footprint and/or preserving or creating suitable habitat at an on- or off-site location. Alternatively, purchasing credits at a USFWS-approved mitigation bank may be identified as appropriate mitigation. ▶ If off-site mitigation includes dedicating conservation easements, purchasing mitigation credits, or implementing other off-site conservation measures, the details of these measures will be included in the mitigation plan. The plan will list responsible parties for long-term management, conservation easement holders, and long-term management requirements as appropriate to target long-term habitat viability and preservation. 				<p>occurring vernal pool branchiopods.</p> <p>Protective barriers and/or fencing to protect sensitive areas are installed and maintained throughout project construction.</p> <p>Mitigation or purchase of mitigation credits completed to minimize the loss of habitat for vernal pool branchiopods.</p>	

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3.5-8a	<p>Minimize Potential for Mortality of Pacific Pond Turtle.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on Pacific pond turtle:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ A qualified biologist will conduct surveys for Pacific pond turtles in suitable aquatic habitats to be filled by project construction. Surveys will be conducted immediately after dewatering, if applicable, or immediately before fill of aquatic habitat that will not be dewatered. If no pond turtles are found, no further mitigation is required. ▶ If any pond turtles are found, the biologist will capture and move them to suitable habitat that will not be affected by project construction. Habitat to which pond turtles are moved will be located as close as possible to the area from which they are removed and, to the extent feasible, will be of a similar habitat type and quality (i.e., turtles removed from dredge ponds will be relocated to dredge ponds and turtles removed from canals will be relocated to canals). 	Before activities in areas supporting suitable aquatic habitat for Pacific pond turtle.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified biologist completes preconstruction survey and verifies absence of Pacific pond turtles, and any encountered turtles are relocated to an appropriate area within the Yuba Goldfields prior to construction.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to Pacific pond turtles.</p>	
3.5-8b	<p>Minimize Potential for Mortality of Giant Garter Snake.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of Alternative 4 on giant garter snake:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ Before construction activities begin, high-visibility fencing will be erected to protect giant garter snake habitat, which is located adjacent to construction areas, but can be avoided, from encroachment of personnel and equipment. The fencing will be inspected before the start of each work day and will be removed only when construction is complete. ▶ Construction activity within 200 feet of suitable aquatic habitat for giant garter snake will occur between May 1 and October 1. 	Before and during project activities in areas supporting suitable habitat for giant garter snake.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>Construction within 200 feet of suitable Giant Garter Snake habitat occurs between May 1 and October 1.</p> <p>Any dewatering of aquatic habitat after April 15 remains dry for at least 15 consecutive days before excavating or filling of the dewatered habitat.</p>	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
	<ul style="list-style-type: none"> ▶ Any aquatic habitat for the snake that is dewatered will remain dry for at least 15 consecutive days after April 15 and before excavating or filling of the dewatered habitat. If complete dewatering is not possible, potential snake prey (e.g., fish and tadpoles) will be removed, to the extent possible, so that snakes and other wildlife are not attracted to the construction area. ▶ A qualified biologist will conduct surveys for giant garter snakes in suitable aquatic and upland habitats to be disturbed by construction activities within 24 hours before onsite project activities begin. Surveys will be repeated after any lapse in construction activity of 2 weeks or longer. ▶ No snakes observed during the pre-construction survey or construction activities will be harassed, harmed, or killed, and such snakes will be allowed to leave the construction area on their own volition. If any snake is observed retreating into an underground burrow within the project limits, a 50-foot radius nondisturbance buffer zone will be established until a qualified biologist determines that the snake is not a giant garter snake or the snake has left the area. The biologist will notify the USFWS and CDFW immediately if a giant garter snake is found on-site, and will submit a report, including date(s), location(s), habitat description, and any corrective measures taken to protect the snake. ▶ A qualified biologist will monitor all construction activities in areas of suitable giant garter snake habitat to ensure that avoidance and minimization measures are properly implemented and no unauthorized activities occur. The biological monitor will be empowered to stop construction activities that threaten to cause unanticipated and/or unauthorized take of giant garter snake. Project activity will not resume until the conflict has been resolved. 				<p>Worker environmental awareness program is implemented such that there are no impacts to Giant Garter Snake.</p> <p>A qualified biologist completes preconstruction survey and verifies absence of Giant Garter Snake, and avoidance and minimization measures are implemented for any encountered suitable Giant Garter Snake habitat.</p> <p>Protective barriers and/or fencing to protect sensitive areas are installed and maintained throughout project construction.</p> <p>Avoidance and minimization measures are properly implemented and no unauthorized activities are identified during biological monitoring</p>	

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					of construction activities in areas of suitable Giant Garter Snake habitat.	
3.5-9	<p>Minimize Disturbance of Occupied Burrows and Avoid Loss of Burrowing Owls.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternative on burrowing owls:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ A qualified biologist will conduct focused breeding- and nonbreeding-season surveys for burrowing owls in areas of suitable habitat in and within 1,500 feet of areas that will be disturbed during implementation of Alternative 4. Surveys will be conducted before the start of construction activities and in accordance with Appendix D of CDFW’s Staff Report on Burrowing Owl Mitigation (CDFW 2012). A survey will also be conducted prior to grading or replacement of patrol road aggregate that requires use of heavy equipment. A letter report documenting the survey methods and results will be prepared and submitted to CDFW. If no occupied burrows are found, no further mitigation is required. ▶ If an active burrow is found during the nonbreeding season (September 1 through January 31), TRLIA will consult with CDFW regarding protective buffers to be established around the occupied burrow and maintained throughout construction. If occupied burrows are present that cannot be avoided or adequately protected with a no-disturbance buffer, a burrowing owl exclusion and relocation plan will be developed and implemented in consultation with CDFW. Owls will be relocated outside the impact area using passive methodologies approved by CDFW, and the burrow will be destroyed to prevent reoccupation. 	Before any activities in or adjacent to suitable burrowing owl habitat.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified biologist completes preconstruction survey and verifies absence of burrows and/or burrowing owls, and any encountered burrows are protected or owls are relocated to an appropriate area within the Yuba Goldfields prior to construction.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to burrowing owls.</p> <p>Protective barriers and/or fencing to protect burrows are installed and maintained throughout project construction.</p>	

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	<ul style="list-style-type: none"> ▶ Occupied burrows found during the breeding season (February 1 through August 31) will be provided with a 150- to 1,500-foot protective buffer (buffer size depends on the time of year and level of disturbance, as outlined in the CDFW staff report) until a qualified biologist verifies through noninvasive means that either (1) the birds have not begun egg laying or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. ▶ Nest burrows will be preserved wherever possible by considering their location during development of the final footprint, including the levee and construction staging areas. ▶ If a nest burrow cannot be preserved, the owls will be relocated outside the impact area after the fledglings have become capable of independent survival. The relocation will be conducted in accordance with an exclusion and relocation plan approved by CDFW. 					
3.5-10	<p>Minimize Disturbance of Active Raptor Nests and Avoid Take of Individuals.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on nesting raptors:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ Vegetation removal in habitats mapped as riparian, oak woodland, and grassland will be conducted between September 16 and January 31 (outside of the raptor nesting season), to the extent feasible. ▶ If project activity is scheduled to occur during the raptor nesting season (February 1–September 15), focused surveys for nesting raptors will be conducted. Surveys for Swainson’s hawk will follow methodology developed by the Swainson’s Hawk Technical Advisory Committee (2000). ▶ Nesting raptor surveys will be conducted by a qualified biologist before the start of project construction, and grading or replacement of patrol road aggregate that requires use of heavy 	Before ground-disturbing activities in areas within 0.5 mile of suitable nesting habitat for Swainson’s hawk or within 500 feet of suitable nesting habitat for other raptors.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>A qualified biologist completes preconstruction survey and verifies absence of active nests, or if active nests are located, active nest disturbance is avoided.</p> <p>Vegetation is removed from oak woodland and grassland habitats between September 16 and January 31, outside of the raptor nesting season.</p>	

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	<p>equipment, to identify active nests on the project site and in the vicinity. At least one survey will be conducted no more than 14 days before project activities commence. Surveys for Swainson’s hawk nests will include all accessible areas of suitable nesting habitat within 0.25 mile of the project site. Surveys for other raptors will include accessible suitable nesting habitat located within 500 feet of the project site. A letter report documenting the survey methods and results will be prepared and submitted to CDFW. If no active nests are found, no further mitigation is required.</p> <ul style="list-style-type: none"> ▶ If active nests are identified, appropriate buffers around the active nest sites will be established to avoid nest failure resulting from project activities. No project activity shall commence within the buffer areas until a qualified biologist has determined that the young have fledged, the nest is no longer active, or reducing the buffer would not result in nest abandonment. CDFW guidelines recommend implementing 0.25- or 0.5-mile-wide buffers for Swainson’s hawk (depending on local conditions) and 500-foot buffers for other raptor species. The size of the buffer may be adjusted if a qualified biologist determines it would not be likely to adversely affect the nest. If reduced buffers are implemented, a qualified biologist will monitor the nest during construction activities to ensure that the reduced buffers do not adversely affect the adults or their young. If construction activities cause the nesting birds or their young to vocalize, make defensive flights at intruders, get up from a brooding position, or fly off the nest, the buffer will be adjusted to ensure project activities are far enough from the nest to avoid such agitation. 				<p>Worker environmental awareness program is implemented such that there are no impacts to nesting raptors.</p> <p>Protective barriers and/or fencing to protect nesting areas are installed and maintained throughout project construction.</p>	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.5-11	<p>Minimize Disturbance of Active Nests of Special-Status Species and Avoid Direct Take of Nests.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on special-status bird species:</p> <ul style="list-style-type: none"> ▶ The worker environmental awareness program described in Mitigation Measure 3.5-1 will be implemented. ▶ Vegetation removal from habitats mapped as riparian, oak woodland, and grassland, as well as unmapped marsh habitat, will be conducted between September 16 and January 31 (outside of the nesting season), to the extent feasible. ▶ If project activity is scheduled to occur during the nesting season for special-status species (March 1–August 31), focused surveys for active nests of loggerhead shrike, yellow-breasted chat, grasshopper sparrow, and Modesto song sparrow will be conducted in areas of suitable habitat in and within 500 feet of areas subject to disturbance from project activities, including staging. Focused surveys for tricolored blackbird will be conducted within 1,000 feet of areas of project disturbance. At least one survey will be conducted within 7 days prior to project construction activities. ▶ Methods and results of surveys for active special-status bird nests will be documented in a letter report and submitted to CDFW. If no active nests are found, no further mitigation is required. ▶ If an active nest of any special-status species is identified, an appropriate buffer will be determined by the biologist, depending on site-specific conditions and potential disturbance levels. All construction-related activities will be excluded from the buffer until the nest is no longer active and fledglings are no longer dependent on the nesting area, as determined by the biologist. 	<p>Before ground-disturbing activities in and adjacent to areas of riparian, oak woodland, and marsh vegetation.</p>	<p>During activities identified under “Mitigation Measure”</p>	<p>TRLIA and its construction contractor(s)</p>	<p>A qualified biologist completes preconstruction survey and verifies absence of active nests, or if active nests are located, active nest disturbance is avoided.</p> <p>Vegetation is removed from riparian, oak woodland, grassland, and unmapped marsh habitat habitats between September 16 and January 31.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to nesting special-status species.</p> <p>Protective barriers and/or fencing to protect nesting areas are installed and maintained throughout project construction.</p>	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.5-14	Implement Mitigation Measures 3.5-1, “Minimize and Compensate for Loss of Federally Protected Wetlands” and 3.5-2, “Minimize and Compensate for Loss of Riparian and Vernal Pool Habitats.”	Before any ground-disturbing activities in or adjacent to the Yuba River, riparian habitat, agricultural canals, grasslands, or vernal pools, and after construction (for replacement planting).	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>Disturbance to wetland habitat is prevented to the extent feasible and practical.</p> <p>BMPs and water quality turbidity controls are implemented such that turbidity and sediment discharges in the Yuba River are minimized during construction.</p> <p>A wetland mitigation plan is implemented if waters of the U.S. are filled and permanently filled wetlands are replaced, restored, or compensated for through the purchase of credits so no net-loss” of habitat occurs.</p> <p>Worker environmental awareness program is implemented such that there are no impacts to potentially occurring sensitive species.</p> <p>Disturbance to riparian habitat and</p>	

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					vernal pool habitats are prevented to the extent feasible and practical. Riparian replacement plantings are installed and maintained or purchase of mitigation credits completed so no net loss of riparian and vernal pool habitat occurs. Protective barriers and/or fencing to protect sensitive areas are installed and maintained throughout project construction.	
Cultural Resources						
3.6-2a	<p>Perform Additional Cultural Resources Inventory.</p> <p>Once TRLIA is in possession of the property, TRLIA will implement the following measures to reduce effects of the project alternatives on unknown archaeological sites:</p> <ul style="list-style-type: none"> ▶ Prior to ground-disturbing construction, a geoarchaeologist who meets the Secretary of the Interior’s Professional Qualifications Standards and who has expertise in geoarchaeological studies will conduct a geoarchaeological study of the APE for each project area. The geoarchaeologist will review relevant background information, such as geotechnical reports, geological and soil maps, levee construction plans, and previous archaeological studies to assess the archaeological sensitivity and relative preservation potential for buried archaeological deposits to occur in different parts of the project area, and evaluate the 	Before ground-disturbing construction activities.	During activities identified under “Mitigation Measure”	TRLIA	Completion of a geoarchaeological study report which assesses the sensitivity of project areas for buried archaeological sites. Report meets the Secretary of the Interior’s Standards and Guidelines for archaeology reports. Completion of a cultural resources	

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	<p>nature and extent of project-related earth disturbances in areas where the sensitivity for buried sites appears to be elevated. If they are available, the geoarchaeologist will review any cores from geotechnical borings and include the analysis in their geoarchaeological report.</p> <ul style="list-style-type: none"> ▶ Once the geoarchaeological study is complete, a professional cultural resources specialist (an archaeologist or historian meeting the Secretary of the Interior’s Professional Qualifications Standards) will complete an inventory of archaeological and historical resources within the APE consistent with the Secretary of Interior’s Standards and Guidelines for Archeology and Historic Preservation (48 Federal Register 44716–44740). The surveyors will walk transects spaced no more than 15 meters apart. During the survey, the archaeologists will record features, isolates, and previously recorded sites, as necessary. Archaeological sites, historical structures and buildings, historical engineering features, and cultural resources with significance to American Indian communities will be documented. Recordation of historic structures, buildings, objects, and sites shall be prepared using the California Department of Parks and Recreation 523 Site Record forms. ▶ Native American representatives will be provided an opportunity to review and comment on the cultural resource identification efforts, evaluation, and effects analysis. Following the completion of identification efforts, a field review will be conducted with Native American representatives, if requested. Should any Native American cultural resource be encountered, TRLIA will take into consideration comments and concerns of interested Native Americans. ▶ TRLIA’s qualified archaeologist will prepare a report describing the identification efforts and the results of the cultural resources study. Using the results of the geoarchaeological study, pedestrian survey, and Native American consultation, TRLIA may choose to conduct the following and/or implement Mitigation Measure 3.6-2b below: 				<p>inventory report which meets the Secretary of the Interior’s Standards and Guidelines for archaeology reports and describes inventory methods and results, describes identified cultural resources, includes site record forms, and documents consultation with interested and affected Native Americans.</p> <p>Completion of additional reports, as appropriate pending selection of the investigative technique, which document 1) any subsurface archaeological plans and excavations, 2) excavation methods and findings, 3) any identified cultural resources, 4) canine investigation methods and findings, and 5) ground-penetrating radar investigation methods and</p>	

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	<ul style="list-style-type: none"> - Qualified archaeologists may conduct subsurface excavations in portions of the APE that are covered by dense vegetation or relatively recent fill. The use of Extended Phase 1 excavations may be recommended to reduce the chances that cultural resources would be identified during construction. - If the research suggests there may be Holocene age soils that are sensitive for archaeological materials, the geoarchaeologist may prepare and implement an excavation plan to assess the potential for subsurface cultural deposits. - Human remains detection through the use of trained dogs is a non-invasive tool for locating culturally sensitive remains. TRLIA or its consultant may consult with the Institute for Canine Forensics or a similar organization to determine if a canine forensic survey of the APE is possible. - Additional investigative techniques such as ground-penetrating radar may be helpful in identifying buried cultural materials. 				findings, if employed. Reports meet the Secretary of the Interior’s Standards and Guidelines for archaeology reports.	
3.6-2b	<p>Implement Unanticipated Discovery Plan and Perform Cultural Resources Awareness Training.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to reduce effects of the project alternatives on unknown archaeological sites:</p> <ul style="list-style-type: none"> ▶ Prior to ground-disturbing construction, TRLIA will include an inadvertent discovery plan in the contract conditions of the construction contractor, incorporating the following actions to be taken in the event of the inadvertent discovery of cultural resources including but not limited to bone, shell, artifacts, human remains, or historic period structural features, architectural elements, bottles, ceramics, bricks, etc.: - In the event of a potential archaeological resources discovery, including, but not limited to, specific Native American sites identified within the project site boundary during additional consultation with Native American Tribes, work will cease in the immediate vicinity of the find, based 	Prior to ground-disturbing construction activities and following discovery of archaeological resources or human remains.	Throughout construction period	TRLIA and its construction contractor(s)	<p>Finds of cultural resources are reported and protected until evaluated by appropriate individuals.</p> <p>Finds of potential archaeological resources are evaluated.</p> <p>Historic resources are either avoided or a Treatment Plan is implemented.</p>	

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	<p>on the apparent distribution of cultural resources if no monitor is present. A qualified archaeologist will assess the significance of the find and make recommendations for further evaluation and treatment as necessary.</p> <ul style="list-style-type: none"> - Following a finding that the discovery represents a potential historical resource, a delineation of the resource will be conducted according to industry-standard methods by an archaeologist who meets the Secretary of Interior’s Standards for a Professional Archaeologist. The delineation will expose and map the full extent of the archaeological site. The site boundary will be recorded using GPS and the site boundary will be flagged to include a 50-foot buffer. - Preservation in place is the preferred manner of mitigating impacts to an archaeological site and may be accomplished by planning construction to avoid archaeological sites; incorporation of sites within parks, greenspace, or other open space; covering archaeological sites, or deeding a site into a permanent conservation easement. Recommendations for avoidance of historical resources will be reviewed between TRLIA and the appropriate agencies in light of factors such as costs, logistics, technological, and environmental considerations and the extent to which avoidance is consistent with project objectives. If the site can be avoided, the construction contractor(s) and maintenance personnel will install protective fencing prior to the start of construction in the vicinity of the site and maintain the protective fencing throughout construction to avoid the site during construction. 				<p>If human remains are discovered, TRLIA and the contractors will coordinate with the county coroner and NAHC to make the determinations and perform the management steps prescribed in California Health and Safety Code Section 7050.5 and California PRC Section 5097.98.</p>	

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	<ul style="list-style-type: none"> - If preservation in place using covering is the selected approach, the construction contractor(s) and maintenance personnel will install geotechnical fabric as a protective cover to the surface of the site and then cap or cover the site with a layer of soil prior to building on the site. The layer of soil will be thick enough that construction activities will not penetrate the protective cap and disturb the site. An archaeologist who meets the Secretary of Interior’s Standards for a Professional Archaeologist must be present during installation of the protective barrier and capping of the site. - If avoidance is infeasible, a Treatment Plan that documents the research approach and methods for archaeological data recovery shall be prepared and implemented in consultation with TRLIA and with appropriate Native American representatives (if the resources are prehistoric or Native American in nature). Work may proceed on other parts of the Project area while treatment is being carried out. - If human remains are discovered as part of the find, TRLIA and the contractors will coordinate with the county coroner and NAHC to make the determinations and perform the management steps prescribed in California Health and Safety Code Section 7050.5 and California PRC Section 5097.98. ▶ A worker cultural resources awareness program for all personnel involved in project implementation will be developed and conducted in coordination with a qualified archaeologist before construction activities begin on the project site. The program will include relevant information regarding sensitive archaeological resources, including applicable regulations and protocols for avoidance. The worker cultural resources awareness program will also describe appropriate avoidance and minimization measures for sites that have the potential to be located within the project site and will outline what to do and whom to contact if any potential archaeological sites or artifacts are encountered. 					

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
Geology, Soils, Minerals, and Paleontological Resources						
3.7-1	<p>Prepare Site-Specific Geotechnical Report for 200-Year Protection, Implement Appropriate Recommendations, and Design and Construct Facilities in Compliance with USACE Guidelines.</p> <p>TRLIA will implement the following measure to reduce effects of project alternatives related to strong seismic ground shaking.</p> <p>Before the start of construction activities, TRLIA will hire a licensed geotechnical engineer to prepare a final geotechnical investigation report for the 200-year flood risk reduction facilities that addresses the requirements contained in USACE’s <i>Guidelines for Seismic Stability Evaluation of Levees</i>. The final geotechnical engineering report will address and make recommendations on the following conditions, as appropriate:</p> <ul style="list-style-type: none"> ▶ slope stability; ▶ hydraulic conductivity; ▶ seepage potential; ▶ appropriate types of fill material; ▶ road, pavement, and parking areas; ▶ grading practices; ▶ erosion and scour; ▶ seismic ground shaking; ▶ liquefaction; and ▶ expansive/unstable soils. <p>In addition to making recommendations for the conditions listed above, the geotechnical investigation report will identify appropriate design parameters consistent with USACE’s guidelines contained in Engineering Manual 1110-2-1913, <i>Engineering Design and Construction of Levees</i>, and any other applicable USACE engineering guidance (e.g., ETL 1110-2-569, <i>Design Guidance for Levee Underseepage</i> and ETL 1110-2-555, <i>Design Guidance on Levees</i>).</p>	Before the start of ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA	Engineering solutions to minimize and/or avoid potentially hazardous conditions, such as ground failure, expansive, corrosive and compressible soils, and seismic hazards found during site-specific geotechnical investigations are incorporated in the final project designs in accordance with USACE guidelines.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.7-2	Implement Mitigation Measure 3.7-1, “Prepare Site-Specific Geotechnical Report for 200-Year Protection, Implement Appropriate Recommendations, and Design and Construct Facilities in Compliance with USACE Guidelines.”	Before the start of ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA	Engineering solutions to minimize and/or avoid potentially hazardous conditions, such as ground failure, expansive, corrosive and compressible soils, and seismic hazards found during site-specific geotechnical investigations are incorporated in the final project designs in accordance with USACE guidelines.	
3.7-3a	Implement Mitigation Measure 3.10-1, “Prepare a Storm Water Pollution Prevention Plan and Implement Best Management Practices.”	Before and during ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA	Yuba County and Central Valley RWQCB waste discharge requirements are implemented, and BMPs are implemented and maintained such that contaminants are isolated from drainages to the extent practical.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.7-3b	<p>Engineer, Design, and Construct Proposed Facilities According to USACE Guidelines.</p> <p>TRLIA will implement the following measure to reduce erosion hazards from project construction and O&M.</p> <p>TRLIA will design, engineer, and construct the proposed embankment or levee and seepage berm in accordance with the guidelines contained in USACE’s Engineering Manual 1110-2-1913. These guidelines provide detailed recommendations pertaining to components of field and laboratory investigations, selection of borrow areas and materials, methods for seepage control, slope and settlement design, methodology of levee construction, and consideration of special features (such as utility crossings and access roads and ramps). The seepage berm will be designed in accordance with ETL 1110-2-569 and any other relevant USACE engineering manuals or engineering technical letters as appropriate.</p>	Before and during ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA and its construction contractor(s)	<p>The minimum USACE design criteria and specifications in Engineering Manual 1110-2-1913 are incorporated into project designs.</p> <p>Project is designed and constructed to minimize seepage, and erosion to the extent feasible and practical.</p>	
3.7-4	<p>Implement Mitigation Measure 3.7-1, “Prepare Site-Specific Geotechnical Report for 200-Year Protection, Implement Appropriate Recommendations, and Design and Construct Facilities in Compliance with USACE Guidelines.”</p>	Before the start of ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA	Engineering solutions to minimize and/or avoid potentially hazardous conditions, such as ground failure, expansive, corrosive and compressible soils, and seismic hazards found during site-specific geotechnical investigations are incorporated in the final project designs in accordance with USACE guidelines.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.7-5	<p>Implement Mitigation Measure 3.7-1, “Prepare Site-Specific Geotechnical Report for 200-Year Protection, Implement Appropriate Recommendations, and Design and Construct Facilities in Compliance with USACE Guidelines.”</p>	Before the start of ground-disturbing activities.	During activities identified under “Mitigation Measure”	TRLIA	Engineering solutions to minimize and/or avoid potentially hazardous conditions, such as ground failure, expansive, corrosive and compressible soils, and seismic hazards found during site-specific geotechnical investigations are incorporated in the final project designs in accordance with USACE guidelines.	
3.7-6	<p>Work with Mining Interests to Determine Method to Allow Continued Mining within the Embankment/Levee Alignment.</p> <p>TRLIA will work with the mining companies that have mining rights within the selected alignment to determine if there are feasible measures to allow mineral resources underneath the embankment or levee to be extracted in the future after the selected flood risk reduction solution is put in place. If so, TRLIA will enter into an agreement with the mining interests to implement feasible measures to allow future mining to occur within the alignment.</p>	Before the start of ground-disturbing activities and after construction.	During activities identified under “Mitigation Measure”	TRLIA	Loss of access to mining sites is prevented to the extent feasible and practical.	
3.7-7	<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.</p> <p>TRLIA and its construction contractor(s) will implement the following measures to minimize potential adverse effects on previously unknown, potentially unique, and scientifically important paleontological resources:</p>	Before and during ground-disturbing activities.	Throughout construction period	TRLIA and its construction contractor(s).	<p>Worker environmental awareness program is implemented such that impacts to fossils are minimized.</p> <p>Finds of paleontological resources are reported and</p>	

**Table 1
Mitigation Monitoring and Reporting Plan for the Yuba Goldfields 200-Year Flood Protection Project**

Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
	<ul style="list-style-type: none"> ▶ Before the start of any earthmoving activities for Alternative 4, TRLIA will retain a qualified paleontologist to train all construction personnel involved with earthmoving activities, including the site superintendent, regarding the possibility of encountering fossils, the appearance and types of fossils likely to be seen during construction, and proper notification procedures should fossils be encountered. ▶ If paleontological resources are discovered during earthmoving activities, the construction crew will immediately cease work in the vicinity of the find and notify the Yuba County Community Development and Services Agency. TRLIA will retain a qualified paleontologist to evaluate the resource and prepare a recovery plan in accordance with Society of Vertebrate Paleontology guidelines (1995, 1996). The recovery plan might include, but would not be 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 TRLIA to be necessary and feasible will be implemented before construction activities can resume at the site where the paleontological resources were discovered. 				<p>protected until evaluated by a paleontologist.</p> <p>Recommendations of recovery plan are implemented.</p>	
Hazards and Hazardous Materials						
3.9-2	<p>Coordinate the Timing and Location of Project Construction Activities with Western Aggregates, Kino Aggregates, Cal-Sierra, and Teichert.</p> <p>TRLIA will implement the following mitigation measure to reduce the potential for mining operations and project construction activities to result in hazardous conditions that could expose people to hazardous materials.</p> <p>TRLIA will coordinate with Western Aggregates, Kino Aggregates, Cal-Sierra, and Teichert regarding the projected schedule and location of project-related construction activities, before such activities occur to avoid any potential hazards from conflicts with field equipment, ongoing mining activities, or potential accidental releases of hazardous materials.</p>	Before the start of ground-disturbing activities and throughout project construction and O&M.	Throughout construction period	TRLIA	Construction activities are coordinated with mining companies such that potential hazardous conditions from conflicting activities are prevented to the extent feasible and practical.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
Hydrology and Water Quality						
3.10-1	<p>Prepare a Storm Water Pollution Prevention Plan and Implement Best Management Practices.</p> <p>TRLIA and its construction contractor(s) will implement the following measures:</p> <ol style="list-style-type: none"> 1. Prior to the start of land disturbance activities, TRLIA will obtain coverage under the NPDES Construction General Permit from the SWRCB. 2. TRLIA will prepare and implement the appropriate SWPPP to prevent and control pollution and to minimize and control runoff and erosion. The SWPPP will identify the activities that may cause discharge of pollutants (including sediment) during construction and the BMPs that will be employed to control pollutant discharge. Construction techniques identified and implemented to reduce the potential for pollutant discharge may include minimizing site disturbance, controlling water flow over the construction site, stabilizing bare soil, and ensuring proper site cleanup. In addition, the SWPPP will include an erosion control plan and BMPs that specify the erosion and sedimentation control measures to be implemented, which may include silt fences, trench plugs, terraces, water bars, and seeding and mulching. The SWPPP also will include a spill prevention, control, and countermeasure plan and applicable hazardous materials business plans. It will identify the types of materials used for equipment operation (including fuel and hydraulic fluids) and measures to prevent and clean up hazardous material and waste spills. The SWPPP will also identify emergency procedures for responding to spills. 3. The BMPs presented in the SWPPP will be clearly identified and maintained in good working condition, with sufficient backup stock on-site during all site work and construction activities. 4. A copy of the approved SWPPP will be kept on the construction site and will be modified as necessary to suit specific site conditions through amendments prepared by a Qualified Stormwater Pollution Prevention Plan Developer. 	Before and during ground-disturbing activities.	During activities identified under "Mitigation Measure"	TRLIA	Yuba County and Central Valley RWQCB waste discharge requirements are implemented, and BMPs are implemented and maintained such that contaminants are isolated from drainages to the extent practical.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
Noise						
3.12-1	<p>Prepare and Implement a Plan to Avoid and Minimize Residential Streets during Truck Hauling when Feasible.</p> <p>TRLIA and its construction contractor(s) will develop and implement a plan to avoid and minimize the use of heavily loaded trucks near residential streets when feasible.</p>	During all construction phases.	Throughout construction period	TRLIA and its construction contractor(s)	Plan recommendations are implemented such that noise in residential areas from heavy-loaded trucks are prevented to the extent feasible and practical.	
Transportation and Traffic						
3.14-1	<p>Prepare and Implement a Traffic Management Plan.</p> <p>Before starting construction under Alternative 4, TRLIA and its construction contractor(s) will determine the number of truck trips required for construction activities. TRLIA and/or its construction contractor(s) will prepare and implement a plan to manage expected construction-related traffic to the extent feasible, and to avoid and minimize potential traffic hazards on local roadways during construction. Items (a) through (g) of this mitigation measure, as listed below, will be integrated as terms of the construction contracts.</p> <ol style="list-style-type: none"> a. The traffic management plan will outline the phasing of activities and the use of multiple routes to and from off-site locations to minimize the daily amount of traffic on individual roadways. b. The plan will attempt to schedule haul truck trips outside of peak commute periods, minimizing project construction effects on traffic congestion where feasible. c. The construction contractor(s) will develop a traffic safety and management plan for the local roadways that would be affected by construction traffic. Before the start of construction-related activities involving high volumes of traffic, the plan will be submitted for review by the agency of local jurisdiction that has responsibility for roadway safety at and between project sites. The plan will call for the following elements: 	Before and during construction.	During activities identified under "Mitigation Measure"	TRLIA and its construction contractor(s)	Plan recommendations are implemented such that traffic impacts are prevented to the extent feasible and practical.	

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
	<ul style="list-style-type: none"> ▶ posting warnings about the potential presence of slow-moving vehicles; ▶ using traffic control personnel when appropriate; and ▶ placing and maintaining barriers and installing traffic control devices necessary for safety, as specified in Caltrans’s <i>California Manual on Uniform Traffic Control Devices</i> (2014) and in accordance with city/county requirements. <p>The contractor(s) will train construction personnel in appropriate safety measures as described in the plan and will implement the plan. The plan will include the prescribed locations for staging equipment and parking trucks and vehicles. Provisions will be made for overnight parking of haul trucks to avoid causing traffic or circulation congestion.</p> <p>d. During all construction activities, the contractor(s) will limit and expeditiously remove, as necessary, the accumulation of project-generated mud or dirt from adjacent public streets at least once every 24 hours if substantial volumes of soil have been carried by project construction onto adjacent paved public roadways.</p> <p>e. If needed to comply with Caltrans requirements, the transportation management plan will be prepared and submitted to Caltrans to cover any points of access from the state highway system for haul trucks and other construction equipment.</p> <p>f. Before the start of the first construction season, TRLIA and/or its construction contractor(s) will enter into maintenance agreements with Yuba County (and any other affected jurisdictions) to address maintenance and repair of affected roadways resulting from increased truck traffic. The agreements will ensure that the affected roadways are repaired to a level that is equivalent to their preproject condition as determined by the affected jurisdiction.</p> <p>g. Before project construction begins, TRLIA and/or its construction contractor(s) will provide notification of project construction to all appropriate emergency service providers in Yuba County, and will coordinate with providers throughout the construction period to ensure that emergency access through construction areas is maintained.</p>					

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Mit. No.	Mitigation Measure	Mitigation Implementation Time Frame	Monitoring Time Frame	Responsibility for Verification of Compliance	Performance Criteria	Date Compliance Completed
3.14-3	<p>Post Detour Notices for Affected Transit, Bicycle, or Pedestrian Facilities.</p> <p>At least 10 days before the start of construction activities, the construction contractor(s) will post signs showing bicycle or pedestrian routes and facilities that can be used during construction activities. As the manager of the transit operations, Yuba County will provide similar notice to the transit operators at least 10 days before the start of construction activities.</p>	Before and during construction.	During activities identified under “Mitigation Measure”	TRLIA and its primary construction contractor(s), and Yuba County	Signage is installed and maintained, and notices are posted to minimize impacts to commuters and recreationists from traffic detours during project construction.	
Utilities and Public Services						
3.15-1	<p>Coordinate with Irrigation Water Provider.</p> <p>TRLIA and its primary contractor for engineering design and construction will implement the measures listed below to minimize the potential for interruptions in irrigation water supply before and during construction activities:</p> <ol style="list-style-type: none"> 1. Coordinate the timing of all modifications/replacement of existing irrigation infrastructure with owners and water supply purveyors. 2. Include detailed scheduling of the modifications/replacement of existing irrigation infrastructure components in project design and in construction plans and specifications. 3. Complete planned modifications/replacement of irrigation infrastructure during the nonirrigation season to the extent feasible. 4. Provide for alternative irrigation water supply, if necessary and feasible, when modification/replacement of irrigation infrastructure must be conducted during a period when it would otherwise be in normal use by an irrigator. 5. Ensure that either (a) users of irrigation water supply do not experience a substantial interruption in irrigation supply (i.e., a decrease in level of service in comparison with the existing level of service) caused by physical interference associated with the 200-year flood protection project when such irrigation supply is needed for normal, planned farming operations; or (b) compensate users of irrigation water supply in kind for losses associated with a decrease in an existing level of service. 	<p><i>Measures 1 & 2:</i> Before and during construction activities.</p> <p><i>Measure 3:</i> During the nonirrigation season.</p> <p><i>Measures 4 & 5:</i> During construction activities that interrupt water supply during the irrigation season.</p>	During activities identified under “Mitigation Measure”	TRLIA and its primary construction contractor	Interruptions in irrigation water supply are prevented to the extent feasible and practical.	