

Attachment C. Mitigation Measures and Project Consistency with the Delta Plan Ecosystem Amendment MMRP for the Cache Slough Mitigation Bank

This table presents a “crosswalk” between Delta Plan Ecosystem Amendment Mitigation Measures and the Project-specific Environmental Commitments (EC) and/or Mitigation Measures (MM) that are applicable to the proposed Project to demonstrate compliance with, or effective substitution for, the Delta Plan Mitigation Measures.

Supporting documents referenced in this table are included as Appendices to the draft IS/MND prepared for the Project. These include:

- Hydrology and Hydraulic Study Report
- Bridge Hydraulic Study Report
- Geotechnical Investigation Report
- Bridge Foundation Report
- Archaeological and Architectural Resources Inventory Report
- Wildlife Hazards Analysis

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Visual Resources (Section 5.2)		
5.2-1	Use non-specular conductors for transmission lines and distribution lines to reduce glare.	Consistent. Replacement distribution lines will use non-specular conductors.
Agriculture and Forestry Resources (Section 5.3)		
7-1	<ul style="list-style-type: none"> a. Design proposed projects to minimize, to the greatest extent feasible, the loss of the highest value agricultural land (i.e., Prime Farmland, Farmland of Statewide Importance, and Unique Farmland). b. Design proposed projects to minimize, to the greatest extent feasible, conflicts with land protected by agricultural zoning or a Williamson Act contract and the terms of the applicable zoning/contract. Approaches for minimizing conflicts include siting project components on lands that are consistent with zoning and contract restrictions, while placing other components in areas that would not affect the agricultural lands. c. For projects that will result in permanent conversion of Farmland, preserve in perpetuity other Farmland through acquisition of an agricultural conservation easement, or contributing funds to a land trust or other entity qualified to preserve Farmland in perpetuity (at a minimum target ratio of 1:1, depending on the nature of the conversion and the characteristics of the Farmland to be converted, to compensate for permanent loss). d. For projects that will result in permanent conversion of Farmland, restore agricultural land to productive use through removal of equipment or structures, such that the land can be designated as Farmland, to replace the impacted Farmland at a 1:1 ratio. e. Redesign project features (e.g., cluster project components) to minimize fragmenting or isolating Farmland. Where a project involves acquiring land or easements, ensure that the remaining non-project area is of a size sufficient to allow viable farming operations and continued classification as Farmland. The project proponents shall be responsible for acquiring easements, making lot line adjustments, and merging affected land parcels into units suitable for continued commercial agricultural management. f. Reconnect utilities or infrastructure that serve agricultural uses if these are disturbed by project construction. If a project temporarily or permanently cuts off roadway access or removes utility lines, irrigation features, or other infrastructure, the project proponents shall be responsible for restoring access as necessary to ensure that economically viable farming operations are not interrupted. g. Manage project operations to minimize the introduction of invasive species or weeds that may affect agricultural production on adjacent agricultural land. h. Establish buffer areas between projects and adjacent agricultural land that are sufficient to protect and maintain land capability and agricultural operation 	Consistent. a, c - e. The Project site is designated as Grazing Land according to the California Department of Conservation (California Department of Conservation 2018). The project will continue to support grazing opportunities. The Project would not result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. b. The Project site is zoned Agriculture Minimum 80 acres (A-80) pursuant to Section 28.21.020 of the Solano County Code (zoning regulations), which permits conservation and mitigation banking as an allowable use. The Project site is also enrolled in a Williamson Act contract as an Agricultural Preserve, which allows for open space uses, including marsh preservation. f. An existing utility line located on the Project site will be relocated along an existing line outside the Project site owned by the Project proponent. This change will not disrupt power to agricultural facilities outside the Project site. g. See IS/MND environmental commitment EC-11: Prevent Spread of Invasive Species. h. The Project site is separated from adjacent agriculture by an existing berm and water delivery canal (Watson Hollow Slough).

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	flexibility. Design buffers to protect the feasibility of ongoing agricultural operations and reduce the effects of construction- or operation-related activities (including the potential to introduce special-status species in the agricultural areas) on adjacent or nearby properties. The buffer shall also serve to protect ecological restoration areas from noise, dust, and the application of agricultural chemicals. The width of the buffer shall be determined on a project-by-project basis to account for variations in prevailing winds, crop types, agricultural practices, ecological restoration or infrastructure. Buffers can function as drainage swales, trails, roads, linear parkways, or other uses compatible with ongoing agricultural operations.	
7-3	<ul style="list-style-type: none"> a. Avoid protected forestland and timberland through site selection and/or project design. b. When selecting a project site, project proponents shall take into consideration the value of the forest, not only in terms of direct products such as wood but also as part of the watershed ecosystem. c. For projects that will result in permanent conversion of Forestland, project proponents shall acquire, at a fair market value, other forestland that shall be preserved in perpetuity through a conservation easement or contribute funds to a land trust or other agency (at a target ratio of 1:1, depending on the nature of the conversion and the characteristics of the Forestland to be converted, to compensate for permanent loss). d. When removal of existing forestland or timberlands is required as part of an action, project proponents shall acquire the property at fair market value. 	<p>Consistent.</p> <p>a - d. The Project site does not support designated Forestland or Timberland. Trees within the Project site will be retained to the extent possible. See IS/MND environmental commitment EC-9: Minimize Vegetation Disturbance.</p>
Air Quality and Greenhouse Gas Emissions (Section 5.4)		
9-1	<ul style="list-style-type: none"> a. Use equipment and vehicles that are compliant with Air Resource Board (ARB) requirements and emission standards for on-road and off-road fleets and engines. New engines and retrofit control systems should reduce NO_x and PM from diesel-fueled on-road and off-road vehicles and equipment. b. Minimize idling times either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be posted for construction workers at all entrances to the site. c. Maintain all equipment in proper working condition according to manufacturer's specifications. d. Use electric equipment when possible. Use lower-emitting alternative fuels to power vehicles and equipment where feasible. e. Use low Volatile Organic Compounds (VOC) coatings and chemicals; minimize chemical use. 	<p>Consistent.</p> <p>a - h. The Project as proposed would not generate emissions that would exceed Yolo-Solano Air Quality Management District thresholds. See IS/MND EC-13: Speed Limits and Fugitive Dust Reduction.</p> <p>i - l. Not applicable. This project does not occur on fallowed land.</p> <p>m. See IS/MND environmental commitments EC-12: Staging Areas, EC-13: Equipment Maintenance and EC-14: Speed Limits and Fugitive Dust Reduction.</p> <p>n. Not applicable. Based on Project analysis in the IS/MND Chapter III, there will be no short-term or long-term operational air quality impact and emissions will not exceed the Yolo-Solano Air Quality Management District thresholds.</p>

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	<ul style="list-style-type: none"> f. Prepare and implement a dust control plan and apply dust control measures at the construction sites. g. To minimize track-out of dirt and mud from dirt and gravel roads, all trucks and equipment, including their tires, shall be washed prior to leaving the site. Only exteriors of trucks and equipment are to be washed (no engine degreasing), no detergents or chemicals shall be used in the wash water, and off-site runoff of rinse water shall be prevented. h. For projects involving land fallowing, land conversion, or other agricultural operations, implement applicable BMPs from agencies such as the U.S. Department of Agriculture Natural Resources Conservation Service to reduce potential dust emissions. i. BMPs for fallowed lands could include, but are not limited to, the following: <ul style="list-style-type: none"> i. Implement conservation cropping sequences and wind erosion protection measures, such as: <ol style="list-style-type: none"> 1. Plan ahead to start with plenty of vegetation residue, and maintain as much residue on fallowed fields as possible. Residue is more effective for wind erosion protection if left standing. 2. If residues are not adequate, small grain can be seeded about the first of the year to take advantage of the winter rains and irrigated with a light irrigation if needed to get adequate growth. 3. Avoid any tillage if possible. 4. Avoid any traffic or tillage when fields are extremely dry to avoid pulverization. j. Apply soil stabilization chemicals to fallowed lands. k. Re-apply drain water to allow protective vegetation to be established. l. Reuse irrigation return flows to irrigate windbreaks across blocks of land including many fields to reduce wind fetch and reduce emissions from fallowed, farmed, and other lands within the block. Windbreak species, management, and layout would be optimized to achieve the largest feasible dust emissions reduction per unit water available for their irrigation. Windbreak corridors would provide ancillary aesthetic and habitat benefits. Project-specific lists of mitigation measures shall include applicable recommendations or requirements of the local air district(s) which a project is located in. m. Basic Construction Mitigation Measures Recommended for ALL Proposed Projects 	<ul style="list-style-type: none"> .

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	<ul style="list-style-type: none"> i. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. ii. All haul trucks transporting soil, sand, or other loose material off-site shall be covered. iii. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. iv. All vehicle speeds on unpaved roads shall be limited to 15 mph. v. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. vi. Idling times shall be minimized either by shutting equipment off vii. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator. viii. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations. n. Additional Construction Mitigation Measures Recommended for Projects with Construction Emissions Above the Threshold <ul style="list-style-type: none"> i. All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe. ii. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph. iii. Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity. iv. Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established. v. The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any 	

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	<p>one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.</p> <ul style="list-style-type: none"> vi. All trucks and equipment, including their tires, shall be washed off prior to leaving the site. vii. Site accesses to a distance of 100 feet from the paved road shall be treated with a 6- to 12-inch compacted layer of wood chips, mulch, or gravel. viii. Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent. ix. Minimizing the idling time of diesel powered construction equipment to two minutes. x. Develop a plan demonstrating that the off-road equipment (more than 50 horsepower) to be used in the construction project (i.e., owned, leased, and subcontractor vehicles) would achieve a project wide fleet- average 20 percent NO_x reduction and 45 percent PM reduction compared to the most recent ARB fleet average. Acceptable options for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after- treatment products, add-on devices such as particulate filters, and/or other options as such become available. xi. Use low VOC (i.e., reactive organic gases or ROG) coatings beyond the local requirements (i.e., Regulation 8, Rule 3: Architectural Coatings). xii. Requiring that all construction equipment, diesel trucks, and generators be equipped with Best Available Control Technology for emission reductions of NO_x and PM. xiii. Require all contractors to use equipment that meets ARB's most recent certification standard for off-road heavy duty diesel engines. 	
9-3	<p>a. The Air Quality Technical Report prepared for the Proposed Project should evaluate human health risks from potential exposures of sensitive receptors to substantial pollutant concentrations on a project- specific basis. The need for a human health risk analysis should be evaluated using approved screening tools, and discussed with the local Air Quality Management District (AQMD) or Air Pollution Control District (APCD) at the time of preparation of the Air Quality Technical Report.</p> <p>If the health risk is determined to be significant on a project-specific basis,</p>	<p>Consistent.</p> <p>a - c. The Project site is located in rural Solano County, primarily surrounded by open space, industrial sources, or the Sacramento River; there are no sensitive receptors within 1,000 feet of the Project site. Additionally, Project analysis in the IS/MND Chapter III, there will be no short-term or long-term operational air</p>

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	<p>control measures should be implemented to reduce health risks to levels below the applicable air district threshold.</p> <p>b. Implementation of one or more of the following requirements, where feasible and appropriate would reduce the effects of Impact 9-3a, Construction or Operation of Projects Would Expose Sensitive Receptors to Substantial Pollutant Concentrations:</p> <ul style="list-style-type: none"> i. Implement Mitigation Measure 9-1 to reduce air emissions and air quality impacts from construction and operations of the Proposed Project. ii. Use equipment with diesel engines designed or retrofitted to minimize DPM emissions, usually through the use of catalytic particulate filters in the exhaust. iii. Use electric equipment to eliminate local combustion emissions. iv. Use alternative fuels, such as compressed natural gas or liquefied natural gas. <p>c. If the project would result in significant emissions of airborne, naturally occurring asbestos or metals from excavation, hauling, blasting, tunneling, placement, or other handling of rocks or soil, a dust mitigation and air monitoring plan shall be required to specify site-specific measures to minimize emissions and that airborne concentrations of the toxic air contaminants (TACs) of concern do not exceed regulatory or risk-based trigger levels.</p>	<p>quality impact and emissions will not exceed the Yolo-Solano Air Quality Management District thresholds. See IS/MND environmental commitment EC 14: Speed Limits and Fugitive Dust Reduction.</p>
21-1	<p>Implement GHG mitigation measures listed in the most recent applicable air district, state, regional, or state-of-the art guidance.</p> <p>In addition, the California Attorney General's Office has developed a list of various measures that may reduce GHG emissions at the individual project level. A selected list of those proposed measures that could be applied to DWR projects was appended to the DWR guidance document, titled <i>Guidance for Quantifying Greenhouse Gas Emissions and Determining the Significance of their Contribution to Global Climate Change for CEQA Purposes. California Department of Water Resources Internal Guidance Document. CEQA Climate Change Committee (2010)</i>. As appropriate, the measures can be included as design features of a project, required as changes to the project, or imposed as mitigation (whether undertaken directly by the project proponent or funded by mitigation fees). The measures are examples; the list is not intended to be exhaustive. The following may serve as BMPs to be considered and implemented (as applicable) during design, construction, operation, and maintenance of project facilities.</p> <p>Efficiency</p>	<p>Consistent.</p> <p>Based on Project analysis in IS/MND Chapter VIII, the proposed Project would not be inconsistent or conflict with any part of Senate Bill 32, the Solano County Climate Action Plan, or other state regulations. Wetland restoration would support California's 2017 Climate Change Scoping Plan objective to maintain natural lands as a resilient carbon sink.</p>

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	<ol style="list-style-type: none"> 1. Design buildings to be energy efficient. Site buildings to take advantage of shade, prevailing winds, landscaping and sunscreens to reduce energy use. 2. Install efficient lighting and lighting control systems. Use daylight as an integral part of lighting systems in buildings. 3. Install light colored "cool" roofs, cool pavements, and strategically placed shade trees. 4. Install energy efficient heating and cooling systems, appliances and equipment, and control systems. 5. Install light-emitting diodes for street and other outdoor lighting. 6. Limit the hours of operation of outdoor lighting. <p>Renewable Energy</p> <ol style="list-style-type: none"> 1. Install solar and wind power systems. 2. Install solar panels over parking areas. 3. Use combined heat and power in appropriate applications. <p>Water Conservation and Efficiency</p> <ol style="list-style-type: none"> 1. Create water-efficient landscapes. 2. Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls. 3. Use reclaimed water for landscape irrigation. Install the infrastructure to deliver and use reclaimed water. 4. Design buildings to be water efficient. Install water-efficient fixtures and appliances. 5. Implement low-impact development practices that maintain the existing hydrologic character of the site to manage stormwater and protect the environment. (Retaining stormwater runoff on-site can drastically reduce the need for energy-intensive imported water at the site.) 6. Devise a comprehensive water conservation strategy appropriate for the project and location. The strategy may include many of the specific items listed above, plus other innovative measures that are appropriate to the specific project. <p>Solid Waste Reuse and recycle construction and demolition waste (including, but not limited to, soil, vegetation, concrete, lumber, metal, and cardboard).</p> <p>Transportation and Motor Vehicles</p> <ol style="list-style-type: none"> 1. Limit idling time for commercial vehicles, including delivery and construction vehicles. 	

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	<ol style="list-style-type: none"> 2. Use low- or zero-emission vehicles, including construction vehicles. 3. Use alternative fuels for construction equipment. 4. Promote ride sharing. 5. Use local materials for at least 10 percent of construction materials. 6. Ensure tires on equipment and vehicles are inflated to their proper pressure. <p>Blended Cements Use blended materials such as limestone, fly ash, natural pozzolan, and/or slag to replace some of the clinker in the production of Portland cement.</p> <p>Carbon Offsets</p> <ol style="list-style-type: none"> 1. If, after analyzing and requiring all reasonable and feasible on-site mitigation measures for avoiding or reducing greenhouse gas-related impacts, the lead agency determines that additional mitigation is required, the agency may consider additional off-site mitigation. The project proponent could, for example, fund off-site mitigation projects (e.g., alternative energy projects, or energy or water audits for existing projects) that will reduce carbon emissions, conduct an audit of its other existing operations and agree to retrofit, or purchase carbon “credits” from another entity that will undertake mitigation. 2. The topic of offsets can be complicated, and a full discussion is outside the scope of this summary document. Issues that the lead agency should consider include: <ol style="list-style-type: none"> a. The location of the off-site mitigation. (If the off-site mitigation is far from the project, any additional, non-climate related benefits of the mitigation will be lost to the local community.) b. Whether the emissions reductions from off-site mitigation can be quantified and verified. c. Whether the mitigation ratio should be greater than 1:1 to reflect any uncertainty about the effectiveness of the offset. d. Whether the offset is real, additional, and permanent. 	
Biological Resources – Aquatic (Section 5.5)		
4-1	<ol style="list-style-type: none"> a. Avoid siting project features that would result in the removal or degradation of sensitive natural communities, including jurisdictional wetlands and other waters, vernal pools, alkali seasonal wetlands, riparian habitats, and inland dune scrub. b. Design the project to minimize effects on sensitive natural communities through one or more of the following measures: <ol style="list-style-type: none"> i. Replace, restore, or enhance on a “no net loss” basis (in accordance with U.S. Army Corps of Engineers (USACE) and State 	<p>Consistent.</p> <p>a - c. The purpose of the Project is habitat restoration that includes converting some existing managed wetlands and associated vegetation communities to natural tidal wetlands. The Project will result in a net increase in functions and services of existing wetlands and an overall net increase in aquatic resource acreage across the Project site.</p>

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	<p>Water Resources Control Board (SWRCB) requirements), wetlands and other waters of the United States and waters of the State.</p> <ul style="list-style-type: none"> ii Restore and/or preserve in-kind sensitive natural communities on-site, or off-site at a nearby site. iii Purchase in-kind restoration or preservation credits from a mitigation bank that services the project site and that is approved by the appropriate agencies, in consultation with applicable regulatory agencies (at ratios that offset temporary loss of habitat value). <p>c. Construct the project to minimize effects on sensitive natural communities through one or more of the following measures:</p> <ul style="list-style-type: none"> i Implement Mitigation Measure 3-1. ii Restore natural communities disturbed or temporarily lost as a result of project construction activities. A restoration plan shall be prepared that is reviewed by resource agencies prior to implementation. The restoration plan would include, but might not be limited to: <ul style="list-style-type: none"> 1. Stockpiling of topsoil to be placed in graded areas. 2. Decompacting or amending soil if necessary before planting and use native species for revegetation. 3. Restoring natural communities with similar or improved function from communities that were affected. <p>e. Develop and implement an invasive species management plan for any project whose construction or operation could lead to introduction or facilitation of invasive species establishment. The plan shall ensure that invasive plant species and populations are kept below preconstruction abundance and distribution levels. The plan shall be based on the best available science and developed in consultation with DFW and local experts, such as the University of California Extension, county agricultural commissioners, representatives of County Weed Management Areas (WMA), California Invasive Plant Council, and California Department of Food and Agriculture. The invasive species management plan shall include the following elements:</p> <ul style="list-style-type: none"> i. Non-native species eradication methods (if eradication is feasible) ii. Non-native species management methods iii. Early detection methods iv. Notification requirements v. Best management practices for preconstruction, construction, and postconstruction periods vi. Monitoring, remedial actions and reporting requirements 	<p>e. See IS/MND environmental commitments EC-10: Revegetation Methods and EC-11: Prevent Spread of Invasive Species. Additionally, the Project includes implementation of an Invasive Plant Species Management Plan during long-term maintenance and monitoring.</p>

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	vii. Provisions for updating the target species list over the lifetime of the project as new invasive species become potential threats to the integrity of the local ecosystems.	
4-2	<ul style="list-style-type: none"> a. Select project site(s) that would avoid habitats of special-status species (which may include foraging, sheltering, migration, and rearing habitat in addition to breeding or spawning habitat), and to the maximum extent practicable, (re)design project elements to avoid effects on such species. b. Schedule construction to avoid special-status species' breeding, spawning, or migration locations during the seasons or active periods that these activities occur. c. Conduct preconstruction surveys (by a qualified biologist) for special-status species in accordance with U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS) and DFW survey methodologies and appropriate timing to determine presence and locations of any special-status species and their habitat, and avoid, minimize, or compensate for impacts to special-status species in coordination with DFW and USFWS or NMFS. d. Conduct construction monitoring (by a qualified biologist) to ensure effectiveness of avoidance and minimization measures and implement remedial measures if necessary. e. Where impacts to special-status species are unavoidable, compensate for impacts by restoring or preserving in-kind suitable habitat on-site, or off-site, or by purchasing restoration or preservation credits (in compliance with the California Endangered Species Act (CESA) and federal Endangered Species Act (ESA) for affected State- or federally listed species from a mitigation bank that serves the project site and that is approved by the appropriate agencies, in consultation with the appropriate regulatory agencies (at ratios that offset the temporary loss of habitat value). 	<p>Consistent.</p> <p>a - e. The Project will increase the amount and quality of habitat available for special-status fish and wildlife species that use aquatic habitats. To minimize short-term construction-related impacts on special-status fish and wildlife within aquatic habitats, see IS/MND environmental commitments EC-2: Construction Work Windows, EC-3: Work During Daylight Hours, EC-5: Environmental Training Program, EC-6: Clearance Surveys and Environmental Monitoring, EC-7: Work Area and Environmentally Sensitive Areas, EC-9: Minimize Vegetation Disturbance; and mitigation measures BIO-4: Dewatering Habitat for Giant Garter Snake, BIO-5: Preconstruction Giant Garter Snake and Western Pond Turtle Survey, BIO-6: Giant Garter Snake and Western Pond Turtle Avoidance, and BIO-13: Pile-Driving Monitoring.</p>
4-3	<ul style="list-style-type: none"> a. Select project site(s) that would avoid a substantial reduction in fish and wildlife species habitat, which may include foraging, sheltering, migration, and breeding habitat. b. To the maximum extent practicable, design project elements to avoid effects that would lead to a substantial loss of fish and wildlife habitat. c. Replace, restore, or enhance habitats for fish and wildlife species that would be lost. d. Where substantial loss of habitat for fish and wildlife species is unavoidable, compensate for impacts by preserving in-kind habitat. 	<p>Consistent.</p> <p>a - d. The Project has been designed to maximize habitat benefits for fish and wildlife species by restoring approximately 300 acres of shallow water aquatic and marsh habitats that could be used for foraging, sheltering, migration, and breeding. The Project will result in a net increase in suitable habitats for fish and wildlife species in the Delta.</p>
4-4	<ul style="list-style-type: none"> a. Protect migratory pathways for migratory aquatic species such as salmon, steelhead, and sturgeon including those that use Delta tributaries and floodplain habitats by screening new diversions, and screening existing diversions and removing existing migration barriers 	<p>Consistent.</p> <p>a. No permanent diversions or changes in flow patterns within migratory pathways for Delta fishes are proposed.</p>

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	<p>if the specific proposed project/activity (e.g., increased intake volume through an existing unscreened diversion, new diversion, new barrier, new barrier near an existing unscreened diversion, etc.) exacerbates the negative effect on migratory aquatic species caused by the existing barrier or unscreened diversion.</p> <p>b. Avoid alteration of flow patterns and water quality effects that could disrupt migratory cues for migratory aquatic species by implementing water management measures and establishing programs to reduce water pollution.</p> <p>If avoidance is not feasible, implement the following minimization measures:</p> <ol style="list-style-type: none"> Implement Mitigation Measure 3-1. Prior to dewatering, a qualified biologist shall conduct fish rescues within any coffer-dammed areas. <ol style="list-style-type: none"> A dewatering and fish rescue plan shall be developed prior to fish rescues and approved by appropriate State federal agencies. Pump intakes shall be fitted with agency-approved fish screens to prevent fish from becoming entrained. If nighttime work is necessary, lights on work areas shall be shielded and focused to minimize lighting of fish habitat. Hydroacoustic monitoring of underwater sound levels shall be performed to ensure compliance with established thresholds and minimize harm to special-status fish species. Monitoring of turbidity levels during construction shall be conducted and a monitoring plan. 	<p>b. The Project would not alter flow patterns or affect the quality of the water within aquatic habitats.</p> <p>c. To minimize short-term construction-related impacts on aquatic species see IS/MND environmental commitments EC-3: Work During Daylight Hours, EC-24: In-Water Placement of Materials, Structures, and Operation of Equipment; and mitigation measures BIO-9: Dewatering for Aquatic Species, BIO-10: In-Water Pile Driving Plan for Sound Exposure, BIO-11: In-water Pile Driving Methods, BIO-12: Sediment Containment During In-Water Pile Driving, and BIO-13: Pile-driving Monitoring.</p>
Biological Resources – Terrestrial (Section 5.6)		
4-1	<p>d. If a project may result in conversion of oak woodlands, as identified in section 21083.4 of the Public Resources Code, one or more of the following mitigation measures shall be implemented:</p> <ol style="list-style-type: none"> Conserve oak woodlands, through the use of conservation easements, at a target ratio of 1:1. Plant an appropriate number of trees, as determined by the lead agency in consultation with CDFW, including maintaining plantings and replacing dead or diseased trees. Contribute funds to the Oak Woodlands Conservation Fund, as established under Fish & Game Code section 1363 subdivision (a). 	<p>Not applicable.</p> <p>d. The Project will not result in the conversion of oak woodlands.</p>
4-2	<p>f. Select project site(s) that would avoid habitats of special-status plant species.</p> <p>g. To the maximum extent practicable, design project elements to avoid effects that would lead to a substantial loss of special-status plant species.</p> <p>h. Conduct preconstruction surveys (by a qualified botanist) to evaluate the potential for special-status plant habitat at the project site, should suitable</p>	<p>Consistent.</p> <p>f - I. The Project will increase the amount and quality of habitat available for special-status plant species. Project restoration activities were sited to minimize potential impacts on known special-status plant</p>

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	<p>habitat for any special-status plant species be identified. Protocol-level surveys shall be conducted in accordance with the latest edition of DFW's <i>Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities</i>.</p> <ul style="list-style-type: none"> i. Establish buffers around special-status plant species in advance of construction activities. The size of the buffer shall be in accordance with USFWS and DFW protocols for the applicable special-status plant species. The buffer shall be demarcated with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., walkway). The size and shape of the buffer may be adjusted if a qualified botanist determines that such a smaller buffer is adequate. j. Conduct construction monitoring (by qualified botanist) to ensure effectiveness of avoidance and minimization measures and implement remedial measures if necessary. k. When appropriate, relocate special-status plant species from project sites following USFWS, CNPS, and DFW protocols. l. If relocation of the special-status plant species cannot be achieved, compensate for impacts through purchase of mitigation credits or placement of a conservation easement on property with known populations of the affected species. 	<p>populations. To minimize short-term construction-related impacts on special-status plants see IS/MND environmental commitments EC-5: Environmental Training Program, EC-7: Work Area and Environmentally Sensitive Areas, and EC-9: Minimize Vegetation Disturbance; and mitigation measures BIO-1: Preconstruction Surveys for Special-Status Plant Species, BIO-2: Avoid and Minimize Impacts on Special-Status Plants, and BIO-3: Restore Habitat for Special-Status Plants Disturbed during Construction.</p>
4-3	<ul style="list-style-type: none"> e. Schedule construction to avoid special-status species' breeding or migration locations during the seasons or active periods that these activities occur. f. Conduct preconstruction surveys (by a qualified biologist) for special-status species in accordance with USFWS and DFW survey methodologies and appropriate timing to determine presence and locations of any special-status species and their habitat, and avoid, minimize, or compensate for impacts to special-status species in coordination with DFW and USFWS. g. Establish buffers around special-status species habitats to exclude effects of construction activities. The size of the buffer shall be in accordance with USFWS and DFW protocols for the applicable special-status species. If nest tree removal is necessary, remove the tree only after the nest is no longer active, as determined by a qualified biologist. h. Conduct construction monitoring (by qualified biologist) to ensure effectiveness of avoidance and minimization measures and implement remedial measures if necessary. i. When appropriate, relocate special-status plant and animal species or their habitats from project sites following USFWS and DFW protocols (e.g., for elderberry shrubs). 	<p>Consistent.</p> <p>e - j. The Project will minimize short-term construction-related impacts on terrestrial special-status wildlife species. See IS/MND environmental commitments EC-2: Construction Work Windows, EC-3: Work During Daylight Hours, EC-5: Environmental Training Program, EC-6: Clearance Surveys and Environmental Monitoring, EC-7: Work Area and Environmentally Sensitive Areas, EC-8: Terrestrial Species Entrapment Prevention, and EC-9: Minimize Vegetation Disturbance and; and mitigation measures BIO-4: Dewatering Habitat for Giant Garter Snake, BIO-5: Preconstruction Giant Garter Snake and Western Pond Turtle Survey, BIO-6: Giant Garter Snake and Western Pond Turtle Avoidance, BIO-7: Preconstruction Nesting Bird Surveys, and BIO-8: No-Disturbance Buffers for Active Bird Nests.</p>

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	<p>j. Where impacts to special-status species are unavoidable, compensate for impacts by restoring or preserving in-kind suitable habitat on-site, or off-site, or by purchasing restoration or preservation credits (in compliance with the California Endangered Species Act (CESA) and federal Endangered Species Act (ESA) for affected State- or federally listed species from a mitigation bank that serves the project site and that is approved by the appropriate agencies, in consultation with the appropriate regulatory agency (at ratios that offset the temporary loss of habitat value).</p>	
4-4	<p>c. Protect habitat for migratory waterfowl and shorebirds by expanding existing wildlife refuges and management areas, and establishing new ones, in or near wetland areas used by migratory waterfowl and shorebirds. Manage these areas by establishing suitable vegetation, hydrology, and other habitat components to optimize the use by migratory waterfowl and shorebirds.</p> <p>d. Protect, restore, and enhance connectivity of habitats, including but not limited to wetland and riparian habitats that function as migration corridors for wildlife species (similar to how it has been implemented through programs such as the California Essential Habitat Connectivity Project). Acquire areas with potential to increase connectivity between existing habitats, protect these areas in perpetuity through the acquisition of conservation easements, deed restrictions, or similar tools, and restore the habitat for wildlife species in these areas. As an alternative, participate in existing mitigation banks or HCPs that provide suitable habitat for affected wildlife species. Habitat restoration might be accomplished by establishing suitable hydrology or other physical conditions for desirable vegetation, planting desirable vegetation, fencing and managing grazing, and other means.</p>	<p>Consistent.</p> <p>c. Not applicable. The Project is not on public property and will not be converted to a wildlife refuge or management area.</p> <p>d. The Project will enhance connectivity of habitat by adding a low-water crossing to restore a hydrologic connection with the Delta. Riparian, wetland, upland refugia, and shaded riverine aquatic habitats will be established. This will create suitable conditions for migratory waterfowl and shorebirds. The Project site will be protected by a perpetual conservation easement.</p>
Cultural Resources (Section 5.7)		
10-1	<p>a. California Native American tribes with which the lead agency is required to consult with under AB52 that are on the contact list of traditionally or culturally affiliated tribes of the Delta maintained by the California Native American Heritage Commission (pursuant to Pub. Res. Code § 21073), and have requested to be notified of all projects (pursuant to Pub. Res. Code 21080.3.1) shall be coordinated with early in the process during the design phase of ecosystem restoration projects. This coordination is intended to improve design, project resiliency, and respect, as well as enhance cultural values, and integrate traditional and local ecological knowledge.</p> <p>b. Prior to project construction, a qualified archaeologist, defined as one meeting the U.S. Secretary of the Interior's Professional Qualifications Standards for Archeology and with expertise in California archaeology, in</p>	<p>Consistent.</p> <p>a. See Chapter 3.2.XVIII Tribal Cultural Resources: Native American Correspondence of the IS/MND describing early coordination with local Tribes during initial design and project planning.</p> <p>b. See IS/MND mitigation measures CUL-1: Cultural Awareness Training.</p> <p>c. A cultural resources study was conducted for the Project to identify and document the presence of potentially significant archaeological, architectural, and Tribal resources on the site and results were</p>

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	<p>coordination with California Native American tribes traditionally and culturally affiliated with the Delta, shall develop a Cultural Resources/ Tribal Cultural Resources Awareness and Sensitivity Training Program for all construction and field workers involved in project-related ground-disturbing activities. The program shall include a presentation that covers, at a minimum, the types of cultural resources and tribal cultural resources common to the area, regulatory protections for such resources, and the protocol for unanticipated discovery of archaeological resources and potential tribal cultural resources. An archaeologist and representative from a culturally affiliated California Native American Tribe shall provide an in-person or, if in-person is not feasible, video-conference-based training presenting the Cultural Resources/Tribal Cultural Resources Awareness and Sensitivity Training Program to all personnel working in areas of project ground-disturbing activities prior to working in these areas. Written materials associated with the Program shall be provided to project personnel, as appropriate.</p> <p>c. Before any ground-disturbing activities begin, conduct intensive archaeological surveys, and subsurface investigations if warranted, to identify the locations, extent, and integrity of presently undocumented archaeological, tribal cultural, and landscape resources that may be located in areas of potential disturbance. Conduct tribal consultation to identify and evaluate the presence and significance of tribal cultural resources and landscapes. Surveys and subsurface investigations where tribes have identified tribal cultural resources shall include tribal monitors in addition to archaeologists. In addition, if ground-disturbing activities are planned for an area where a previously documented prehistoric archaeological site has been recorded but no longer may be visible on the ground surface, conduct test excavations to determine whether intact archaeological subsurface deposits are present. Also conduct surveys at the project site for the possible presence of cultural landscapes and traditional cultural properties.</p> <p>d. If potentially CRHR-eligible prehistoric or historic-era archeological, tribal cultural, or landscape resources are discovered during the survey phase, additional investigations may be necessary. These investigations should include, but not necessarily be limited to, measures providing resource avoidance, archival research, archaeological testing and CRHR eligibility evaluations, and contiguous excavation unit data recovery. In addition, upon discovery of potentially CRHR-eligible prehistoric resources, coordinate with the NAHC and the Native American community to provide for an opportunity for suitable individuals and tribal organizations to comment on the proposed research.</p> <p>e. If CRHR-eligible archaeological resources, tribal cultural resources, or cultural landscapes/properties are present and would be physically</p>	<p>summarized in an Archaeological and Architectural Resources Inventory Report.</p> <p>d. The Archaeological and Architectural Resources Inventory Report included CRHR eligibility evaluations and recommendations, as well as avoidance measures.</p> <p>e. Not applicable. The Project will not physically impact CRHR-eligible archaeological resources or cultural properties.</p> <p>f. Through the Section 404 permitting process, USACE will initiate Section 106 consultation with SHPO.</p> <p>g. An NAHC list was obtained by Solano County and letters were sent to all Tribal representatives on the list. In addition, the project proponent has engaged with two local Tribes (Wilton Rancheria and Yocha Dehe Wintun Nation) to obtain input on habitat design and long-term management for the Project.</p> <p>h. Previous sonar surveys have been conducted within the Sacramento River along the boundary of the Project site, which identified one possible shipwreck. This area will be avoided during restoration activities to install a low-water crossing.</p> <p>i. See IS/MND mitigation measures CUL-1: Cultural Awareness Training and CUL-2: Inadvertent Discovery of Cultural Resources.</p>

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	<p>impacted, specific strategies to avoid or protect these resources should be implemented if feasible. These measures may include:</p> <ul style="list-style-type: none"> i Planning construction to avoid the sensitive sites. ii Deeding the sensitive sites into permanent conservation easements. iii Capping or covering archaeological sites. iv Planning parks, green space, or other open space to incorporate the sensitive sites. <p>f. If federal agencies are participants in the project and Section 106 of the National Historic Preservation Act applies, conduct formal consultation with the State Historic Preservation Officer and the Native American tribes. Potential adverse effects on cultural resources recommended as eligible for listing in the NRHP will be resolved through the development of a memorandum of agreement and/or a program-level agreement.</p> <p>g. As part of efforts to identify, evaluate, and consider cultural resources, including prehistoric sites, Native American human remains, and traditional cultural properties, California Native American tribes shall be consulted. The California Native American Heritage Commission (NAHC) shall be asked to provide a list of contacts for Native American tribes who should be contacted concerning an identified future project. The NAHC shall also be asked to search its Sacred Lands Files. California Native American tribes identified by the NAHC shall be contacted by letter to consult on the identification, evaluation, and treatment of tribal cultural resources of importance.</p> <p>h. Before any project-specific ground-disturbing activities begin, conduct investigations to identify submerged cultural resources. These investigations would include review of State Lands Commission (SLC) Shipwrecks Database and other SLC files, and remote sensing surveys conducted under the direction of a qualified maritime archaeologist. Title to all abandoned shipwrecks, archaeological sites, and historic cultural resources on or in the tide and submerged lands of California is vested in the State and under the jurisdiction of the SLC. If avoidance of significant submerged cultural resources is not feasible, a permit from SLC may be necessary to conduct resource documentation and possible salvage of artifacts, ship components, and other data and objects.</p> <p>i. If potentially CRHR-eligible Native American or historic-era archaeological resources, including submerged or buried shipwrecks or other maritime-related cultural resources, are discovered during construction activities, work shall halt within 100 feet of the discovery until the find can be evaluated by a qualified archaeologist or maritime archaeologist as appropriate. A qualified archaeologist, which is defined as a person</p>	

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	meeting the U.S. Secretary of the Interior's Professional Qualifications Standards for Archeology and with expertise in California archaeology, shall be immediately informed of the discovery. In addition, SLC would be consulted. The qualified archaeologist shall inspect the discovery. If the qualified archeologist determines that the resource is or is potentially Native American in origin, culturally affiliated California Native American Tribes shall be contracted to assess the find and determine whether it is potentially a tribal cultural resource.	
10-2	<p>a. In accordance with the California Health and Safety Code, if human remains are uncovered during ground-disturbing activities, the contractor shall immediately halt all ground disturbing activities within 100 feet of the burial and notify the county coroner 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 (Health and Safety Code section 7050.5[b]). If the coroner determines that the remains are those of a Native American, the coroner must contact the NAHC by telephone within 24 hours of making that determination (Health and Safety Code section 7050[c]). Native American human remains are potentially considered Tribal Cultural Resources, and in the event of their discovery, Mitigation Measure 10-1(b) through (e) shall apply as appropriate.</p> <p>b. Following the coroner's findings, the property owner, contractor or project proponent, an archaeologist, and the NAHC-designated Most Likely Descendent (MLD) shall determine the ultimate treatment and disposition of the remains and take appropriate steps to ensure that additional human interments are not disturbed. The responsibilities for acting upon notification of a discovery of Native American human remains are identified in Public Resources Code section 5097.9. The location, content, and character of Native American human remains are confidential and shall not be released to the public. Native American human remains and associated funerary objects shall be treated with the utmost respect and in accordance with the direction of the identified MLD.</p> <p>c. Upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity (according to generally accepted cultural or archaeological standards and practices) is not damaged or disturbed by further development activity 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.</p> <p>d. A range of possible treatments for the remains, including nondestructive removal and analysis, preservation in place, relinquishment of the remains</p>	<p>Consistent.</p> <p>See IS/MND Mitigation Measure CUL-3: Inadvertent Discovery of Human Remains.</p>

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	<p>and associated items to the descendants, or other culturally appropriate treatment, may be discussed. Public Resources Code section 5097.9 suggests that the concerned parties may 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 landowner shall employ:</p> <ul style="list-style-type: none"> i. Record the site with the NAHC or the appropriate information center. ii. Use an open space or conservation zoning designation or easement. iii. Record a document with the county in which the property is located. <p>e. The landowner or his or her authorized representative shall reburial 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 landowner or their authorized representative may also reinter the remains in a location not subject to further disturbance if they reject the recommendation of the MLD and mediation by the NAHC fails to provide measures acceptable to the landowner.</p> <p>f. If the discovery of human remains occurs on lands owned and administered by a federal agency, the provisions of the Native American Graves Protection and Repatriation Act (NAGPRA) will apply. NAGPRA requires federal agencies and certain recipients of federal funds to document Native American human remains and cultural items in their collections, notify native groups of their holdings, and provide an opportunity for repatriation of these materials. The act also requires planning for dealing with potential future collections of Native American human remains and associated funerary objects, sacred objects, and objects of cultural patrimony.</p>	
10-3	<ul style="list-style-type: none"> a. Inventory and evaluate historic-era buildings, structures, linear features, and cultural landscapes. Conduct cultural resources studies to determine whether historic-era buildings, structures, linear features, and cultural landscapes in the project area are eligible for listing in the CRHR. b. Before construction activities begin, an inventory and evaluation of historic-era resources in the project area should be conducted under the direct supervision of an architectural historian meeting the Secretary of the Interior's Professional Qualification Standards for history or architectural history. The documentation should include conducting an intensive field survey, background research on the history of the project 	<p>Consistent.</p> <p>a - c. A cultural resources study was conducted for the Project to identify and document the presence of potentially significant archaeological, architectural, and Tribal resources on the site and results were summarized in an Archaeological and Architectural Resources Inventory Report. This report included CRHR eligibility evaluations and recommendations, as well as avoidance measures. See IS/MND mitigation</p>

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	<p>area, and property-specific research. Based on this research, the eligibility of historic-era resources located in the project area should be evaluated by the architectural historian using criteria for listing in the CRHR. The resources would be recorded on DPR 523 forms and the findings documented in a technical report. If federal funding or approval is required, then the project implementation agencies would comply with Section 106 of the National Historic Preservation Act.</p> <ul style="list-style-type: none"> c. Identify measures to avoid significant historic resources. Avoidance through project redesign is the preferred mitigation measure for mitigating potential effects on historic-era buildings, structures, linear features, and archaeological sites that appear to be eligible for listing in the NRHP or CRHR. d. Record photographic and written documentation to Historic American Building Survey (HABS)/Historic American Engineering Record (HAER) standards. If avoidance of a significant historic resource is not feasible, the lead agency should ensure that HABS/HAER documentation is completed. Through HABS/HAER documentation, a qualified architectural historian and qualified photographer should formally document the historic resource through large-format photography, measured drawings, written architectural descriptions, and historical narratives. The completed documentation should be submitted to the Library of Congress. e. Comply with the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings in the event of relocation of a historic resource. If any historic buildings, structures, or levees are relocated or altered, the lead agency shall ensure that any changes to significant buildings or structures conform to the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings. Implementation of this measure can mitigate potential changes to significant architectural resources. f. Comply with the Secretary of the Interior's Guidance for the Treatment of Cultural Landscapes to preserve landscapes' historic form, features, and details that have evolved over time. 	<p>measures CUL-1: Cultural Awareness Training and CUL-2: Inadvertent Discovery of Cultural Resources.</p> <p>d, e. Historic-era features (irrigation canal and levees) found within or adjacent to the Project site were recommended in-eligible for listing in the CRHR and NRHP and will also not be directly impacted by restoration activities.</p>
Geology, Soils, and Mineral Resources (Section 5.9)		
11-1	<ul style="list-style-type: none"> a. For construction that occurs in an Alquist-Priolo Special Studies Zone, a determination must be made by a licensed practitioner (California Certified Engineering Geologist) that no fault traces are present within the building footprint of any structure intended for human occupancy. The standard of care for such determinations includes direct examination of potentially affected subsurface materials (soil and/or bedrock) by logging of subsurface 	<p>Consistent.</p> <p>a. Not applicable. The Project does not propose to construct buildings or structures intended for human occupancy nor is located in an area designated as an Alquist-Priolo Studies Zone.</p>

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	<p>trenches. Uncertainties regarding the exact locations of future ground ruptures associated with such determinations generally are resolved by providing a minimum setback of 50 feet from any known surface trace of an active fault.</p> <p>b. Lead agencies shall ensure that geotechnical design recommendations are included in the design of facilities and construction specifications to minimize the potential impacts from seismic events and the presence of adverse soil conditions. Recommended measures to address adverse conditions shall conform to applicable design codes, guidelines, and standards.</p>	<p>b. Geotechnical investigations have been performed and recommendations by a licensed geotechnical engineer related to seismic considerations have been incorporated into the project design. A Geotechnical Investigation Report was prepared for the habitat restoration portion of the Project and a Bridge Foundation Report was prepared for the low-water crossing (Appendix J of the IS/MND).</p>
11-2	<p>a. Require adherence, at minimum, to the precepts of the current approved version of the International Building Code (IBC). Included in the IBC are measures for mitigation of the impacts of strong ground motion on constructed works.</p>	<p>Not applicable.</p> <p>The Project does not propose to construct buildings or critical structures.</p>
11-3	<p>a. For projects that would result in significant or potentially significant grading operations, a geotechnical investigation shall be performed and a geotechnical report prepared. The geotechnical report shall include a quantitative analysis to determine whether excavation or fill placement would result in a potential for damage due to soil subsidence during and/or after construction. Project designs shall incorporate measures to reduce the potential damage to an insignificant level, including but not limited to removal and recompaction of existing soils susceptible to subsidence, ground improvement (such as densification by compaction or grouting, soil cementation), and reinforcement of structural components to resist deformation due to subsidence. The site-specific potential for and severity of cyclic seismic loading shall be analyzed in the assessment of subsidence for specific projects.</p> <p>b. A geotechnical investigation shall be performed by an appropriately licensed professional engineer and/or geologist to determine the presence and thickness of potentially liquefiable sands that could result in loss of bearing value during seismic shaking events. Project designs shall incorporate measures to mitigate the potential damage to an insignificant level, including but not limited to ground improvement (such as grouting or soil cementation), surcharge loading by placement of fill, excavation, soil mixing with non-liquefiable finer-grained materials and replacement of liquefiable materials at shallow depths, and reinforcement of structural components to resist deformation due to liquefaction. An analysis of site-specific probable and credible seismic acceleration values, in accordance with current applicable standards of care, shall be performed to provide for suitable project design.</p> <p>c. For projects that would result in construction of wells intended for groundwater extraction, a hydrogeological/geotechnical investigation shall be performed in accordance with the current standards of care for such</p>	<p>Consistent.</p> <p>a, b. Geotechnical investigations were performed within areas where significant grading operations would occur and at the location of the proposed low-water crossing structure. A Geotechnical Investigation Report and Bridge Foundation Report were prepared for the Project that included recommendations by a licensed geotechnical engineer, which were incorporated into the project design to address existing soil conditions and analyze liquefaction potential where proposed bridge abutments would be constructed. (Appendix J of the IS/MND).</p> <p>c, d. Not applicable. The Project does not include the construction of wells, surface reservoirs, or canals.</p>

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	<p>work by an appropriate licensed professional engineer or geologist to identify and quantify the potential for groundwater extraction-induced subsidence. The study shall include an analysis of existing conditions and modeling of future conditions to assess the potential for aquifer compaction/consolidation.</p> <p>d. For projects that would result in construction of surface reservoirs and canals a hydrogeological/geotechnical investigation shall be performed by a licensed professional engineer or geologist to identify and quantify the potential for seeps and springs to develop in areas adjacent to the proposed improvements and to propose mitigation measures. Mitigation of such seepage could include, without limitation, additives to concrete that reduce its permeability, construction of impervious liner systems, and design and construction of subdrainage (passive control) or dewatering systems (active control).</p> <p>Geotechnical investigations and preparation of geotechnical reports shall be performed in the responsible care of California licensed geotechnical professionals including professional civil engineers, certified geotechnical engineers, professional geologists, certified engineering geologists, and certified hydrogeologists, all of whom should be practicing within the current standards of care for such work.</p>	
11-4	<p>a. Any covered action that would have significant soil erosion and topsoil loss impacts shall incorporate specific measures for future projects that would expand the use of BMPs or optional erosion control measures listed in the stormwater pollution prevention plan (SWPPP). The SWPPP shall identify an effective combination of BMPs to reduce erosion during construction and to prevent erosion during operation. Examples of typical BMPs include:</p> <ul style="list-style-type: none"> i. Erosion control measures such as silt fencing, sandbags, straw bales and mats, and rice straw wattles shall be placed to reduce erosion and capture sediment. Straw used for erosion control shall be new cereal grain straw derived from rice, wheat, or barley; free of mold and noxious weed seed; and neither derived from dry-farmed crops nor previously used for stable bedding. Clearance shall be obtained from the County Agricultural Commissioner before straw obtained from outside the county is delivered to the work site. Monitoring requirements of the newly revised General Construction Permit shall be implemented, and more effective BMPs shall be identified and installed if runoff samples indicate excessive turbidity. ii. During construction activities, topsoil shall be removed, stockpiled, and saved for reapplication following completion of construction. 	<p>Consistent.</p> <p>The Project will prepare and implement a SWPPP that includes standard construction BMPs to minimize erosion. See IS/MND environmental commitments EC-10: Revegetation Methods, EC-18: Erosion Control Materials, and EC-19: Stormwater Pollution Prevention Plan.</p>

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	<p>The top 6 inches shall be salvaged and reapplied to a comparable thickness. Soil material shall be placed in a manner that minimizes compaction and promotes plant reestablishment.</p> <ul style="list-style-type: none"> iii. If catch basins are used for sediment capture, the site shall be graded to ensure stormwater runoff flows into the basins, and basins shall be designed for the appropriate storm interval as provided in the General Construction Permit. iv. Temporary work areas shall be surfaced with a compacted layer of well-graded gravel. They may be covered with a thin asphalt binder. Where expansive or compressible soils are present in temporary work areas, construction trailers shall be supported with concrete pads or footings. v. Dust control shall conform to all federal, State, and local requirements and may include use of water trucks, street sweepers, or other methods described in the SWPPP. vi. Spoils shall be placed in 12-inch-thick loose lifts and compacted to reduce erosion and minimize future subsidence. Placement of peat spoils shall be on agricultural land where possible. Following construction, spoils sites shall be restored to avoid erosion. 	
11-5	<ul style="list-style-type: none"> a. In areas where expansive clays exist, a hydrogeological/geotechnical investigation shall be performed by a licensed professional engineer or geologist to identify and quantify the potential for expansion, particularly differential expansion of clayey soils due to leakage and saturation beneath new improvements. Measures could include, but are not limited to removal and recompaction of problematic expansive soils, soil stabilization, and/or reinforcement of constructed improvements to resist deformation due to expansion of subsurface soils. 	<p>Consistent.</p> <p>a. A Bridge Foundation Report was prepared for the Project that included recommendations by a licensed geotechnical engineer that were incorporated into the project design to address existing soil conditions for the construction of the proposed low-water crossing structure (Appendix J of the IS/MND).</p>
11-6	<ul style="list-style-type: none"> a. For projects that would result in construction of canals, storage reservoirs and other surface impoundments, project design shall provide for protection from leakage to the subsurface. Measures could include, but are not limited to rendering concrete less permeable by specifying concrete additives such as bentonite, design of impermeable liner systems, design of leakage collection and recovery systems, and construction of impermeable subsurface cutoff walls. b. For ecosystem restoration projects that might cause subsurface seepage of nuisance water onto adjacent lands: <ul style="list-style-type: none"> i. Perform seepage monitoring studies by measuring the level of shallow groundwater in the adjacent soils, to evaluate the baseline conditions. Continue monitoring for seepage during and after the project implementation. 	<p>Consistent.</p> <p>a. Not applicable. The Project does not result in the construction of canals, storage reservoirs, or other surface impoundments.</p> <p>b. Geotechnical investigations were performed within the area proposed for habitat restoration. A Geotechnical Investigation Report was prepared for the Project that included an analysis of seepage through and below the proposed perimeter berms. The Project was designed to incorporate recommendations by a licensed geotechnical engineer to address seepage considerations. (Appendix J of the IS/MND).</p>

Attachment C. Mitigation Measures and Project Consistency with the Delta Plan Ecosystem Amendment MMRP for the Cache Slough Mitigation Bank

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	<ul style="list-style-type: none"> ii. Develop a seepage monitoring plan if subsurface seepage constitutes nuisance water to the adjacent land. iii. Implement seepage control measures if adjacent land is not useable, such as installing subsurface agricultural drainage systems to avoid raising water levels into crop root zones. Cutoff walls and pumping wells can also be used to mitigate for the occurrence of subsurface nuisance water. 	
11-7	<ul style="list-style-type: none"> a. For projects that would result in construction of levees, surface impoundments and other fill embankments project design shall incorporate fill placement in accordance with local and State regulations and in accordance with the prevailing standards of care for such work. Measures could include, but are not limited to blending of soils most susceptible to landsliding with soils having higher cohesion characteristics, installation of slope stabilization measures, designing top-of-slope berms or v-ditches, terrace drains and other surface runoff control measures, and designing slopes at lower inclinations 	<p>Consistent.</p> <p>a. The Project includes construction of a perimeter berm to buffer tidal waters from adjacent properties. Geotechnical investigations have been performed and recommendations by a licensed geotechnical engineer related to fill quality, erosion, and slope stability have been incorporated into the project design. A Geotechnical Investigation Report was prepared for the Project (Appendix J of the IS/MND).</p>
11-9	<ul style="list-style-type: none"> a. For projects that would result in significant or potentially significant risk to structures due to the presence of highly organic soils, lead agencies shall require geotechnical evaluation prior to construction to identify measures to mitigate organic soils. The following measures may be considered: <ul style="list-style-type: none"> i. Over-excavation and import of suitable fill material ii. Structural reinforcement of constructed works to resist deformation iii. Construction of structural supports below the depth of highly organic soils into materials with suitable bearing strength. 	<p>Consistent.</p> <p>a. A Bridge Foundation Report was prepared for the Project that included recommendations by a licensed geotechnical engineer that were incorporated into the project design to address existing soil conditions for the construction of the proposed low-water crossing structure (Appendix J of the IS/MND).</p>
13-1	<ul style="list-style-type: none"> a. Ensure land use changes in designated mineral resource extraction areas are compatible with and do not prohibit existing mineral resource extraction activities. b. Maintain adequate buffers between future projects and designated MRZ-2 sectors. c. Explore opportunities to classify and designate new MRZ-2 sectors (e.g., in existing MRZ-3 sectors) to ensure that important mineral resources are conserved and continue to be available for future construction needs. d. Use recycled aggregate, where possible, to decrease the demand for new aggregate. 	<p>Not applicable.</p> <p>There are no active mining or mineral extraction areas on the Project site. Additionally, the Project site does not overlap with any designated mineral resource zones.</p>
13-2	<ul style="list-style-type: none"> a. Ensure access is maintained to existing, active mineral resource extraction sites both during and after project construction. b. Implement recommendations identified in the Geologic Energy Management Division of the State Department of Conservation (CalGEM) construction site well review program (DOC, 2007. Well Review Program: Introduction and Application), such as: 	<p>Compatible.</p> <p>a. There are no active mining or mineral extraction areas on the Project site.</p> <p>b. An abandoned gas well (RVGU 45) is located on the Project site. This well was plugged and abandoned to state standards by California Resources Corporation</p>

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	<ul style="list-style-type: none"> i. For all future projects, identify all existing natural gas well sites and oil production facilities within or in close proximity to the project area. ii. Identify any oil and natural gas well within 100 feet of any navigable body of water or watercourse perennially covered by water or any officially recognized wildlife preserve as a “critical well” (California Code of Regulations, Title 14, Chapter 4, Article 2, Section 1720(a)(2)(B) and (C)). The State Department of Conservation (DOC) requires that a “critical well” include more stringent blowout prevention equipment than non-critical wells based on pressure testing and rating. iii. Identify safety measures to prevent unauthorized access to equipment. iv. Include safety shut-down devices on oil and natural gas wells and other equipment, as appropriate. v. Notify DOC of new oil and natural gas wells or changes in oil and natural gas well operations or physical conditions, receive written approval from DOC of the changes, and receive written notification of DOC’s inspection of new or changed equipment. The approvals will be primarily related to the ability to: (1) protect all subsurface hydrocarbons and fresh water, (2) protect the environment, (3) use adequate blowout prevention equipment, and (4) use approved drilling and cementing techniques. vi. If any plugged/abandoned or unrecorded oil and natural gas wells are uncovered during construction, the DOC should be notified, the wells should undergo remedial well plugging actions, and no structures should be constructed over the abandoned oil and natural gas wells. vii. If oil and natural gas wells are under the jurisdiction or a lease from the California State Lands Commission, project proponents should provide additional plans and environmental documentation as required prior to modification of the oil or natural gas wells. 	(CRC) in September 2024. No structures are proposed to be constructed over the abandoned well.
Hazards and Hazardous Materials (Section 5.10)		
14-1	<ul style="list-style-type: none"> a. Refueling and maintenance of vehicles and equipment shall occur only in designated areas that are either bermed or covered with concrete, asphalt, or other impervious surfaces to control potential spills. b. Refueling of vehicles and equipment shall occur only when employees are present. c. Vehicle and equipment service and maintenance shall be conducted only by authorized personnel. 	<p>Consistent.</p> <p>a-s. Restoration and construction activities will be conducted with standard construction practices and in accordance with the California Division of Occupation Safety and Health. A hazardous material management plan and a spill prevention, containment, and</p>

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	<ul style="list-style-type: none"> d. Refueling shall be conducted only with approved pumps, hoses, and nozzles. e. Catch-pans shall be placed under equipment to catch potential spills during servicing. f. All disconnected hoses shall be placed in containers to collect residual fuel from the hoses. g. Vehicle engines shall be shut down during refueling. Smoking shall be limited to designated areas that have been selected to reduce the risk of wildfire ignition (e.g., paved areas). h. No smoking, open flames, or welding shall be allowed in refueling or service areas. i. Refueling shall be performed away from bodies of water to prevent contamination of water in the event of a leak or spill. j. When refueling is completed, the service truck shall leave the project site. k. Service trucks shall be provided with fire extinguishers and spill containment equipment, such as absorbents. l. Should a spill contaminate soil, the soil shall be placed in containers and disposed of as appropriate. All containers used to store hazardous materials shall be inspected at least once per week for signs of leaking or failure. All maintenance and refueling areas shall be inspected monthly. Results of inspections shall be recorded in a logbook maintained onsite. m. An automatic sprinkler system shall be installed in indoor hazardous material storage areas. n. An exhaust system shall be installed in indoor hazardous material storage areas. o. Incompatible materials shall be separated by isolating them from each other with a noncombustible partition. p. Implement a spill control in all storage, handling, and dispensing areas. q. Separate secondary containment shall be provided for each chemical storage system. Secondary containment is required to hold the entire contents of the tank plus the volume of water for the fire suppression system that could be used for fire protection for a period of 20 minutes in the event of a catastrophic spill. r. In the unlikely event of a spill, the spill shall be reported to the appropriate regulatory agencies and contaminated soil shall be cleaned, treated, and/or removed in accordance with regulatory requirements. Small spills shall be contained and cleaned up immediately by trained, onsite personnel. Larger spills shall be reported via emergency phone numbers to obtain help from 	<p>countermeasure plan will be developed and implemented by the construction contractor. See IS/MND environmental commitments EC-12: Staging Areas, EC-13: Equipment Maintenance, EC-20: Hazardous Materials Management Plan, EC-21: Spill Prevention, Containment, and Countermeasure Plan, and EC-22: Concrete Use, and EC-23: In-Water Material Use.</p>

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	<p>offsite containment and cleanup crews. All personnel working on the project during the construction phase shall be trained in handling hazardous materials and the dangers associated with hazardous materials. An onsite health and safety person shall be designated to implement health and safety guidelines and to contact emergency response personnel and the local hospital, if necessary.</p> <p>s. If there is a large spill from a service or refueling truck, contaminated soil shall be placed into barrels or trucks by service personnel for offsite disposal at an appropriate facility in accordance with law. If a spill involves hazardous materials quantities equal to or greater than the specific Reportable Quantities as required by regulatory agencies (42 gallons for petroleum products), all federal, State, and local reporting requirements shall be followed. In the event of a fire or injury, the local fire department shall be called.</p>	
14-2	<p>a. To reduce the risk due to increased exposure to materials that could be released during soil disturbance, worker training programs and breathing apparatus shall be provided. Monitoring programs shall be implemented as areas are excavated to determine the potential for exposure to soil organisms or other constituents.</p> <p>b. To reduce risk to the community due to increased exposure to materials that could be released during soil disturbance, public outreach programs shall be conducted to educate the public of the types of construction activities and risks that could occur. In areas near extreme hazards, such as construction in areas with identified petroleum-product pipelines or soils with high concentrations of petroleum products, warning sirens shall be used at construction sites to immediately notify workers and residents. Emergency procedures shall be included in the education and outreach programs for the workers and the community.</p>	<p>Consistent.</p> <p>a. There is not expected to be significant exposure to hazardous materials from soil disturbance. No underground pipelines or other infrastructure containing hazardous materials is present within the project site. Construction BMPs include measures to minimize fugitive dust and release of hazardous materials. See IS/MND environmental commitment EC-14: Speed Limits and Fugitive Dust Reduction, EC-20: Hazardous Materials Management Plan, and EC-21: Spill Prevention, Containment, and Countermeasure Plan.</p> <p>b. A Phase I Environmental Site Assessment was prepared for the Project, which revealed no evidence of recognized environmental conditions (RECs) (see IS/MND Appendix L). The Project site is also not located near any communities, nor is it expected to create significant exposure to hazardous materials.</p>
14-3	<p>a. Freshwater habitat management activities shall include water-control-structure management, vegetation management, mosquito predator management, drainage improvements, and/or other best management practices, to be carried out by lead agencies or entities with designated management responsibility. These activities will be carried out in coordination with the DFW and local mosquito and vector control agencies regarding these strategies and specific techniques to help minimize mosquito production.</p> <p>b. Permanent ponds shall be maintained in a manner that both increases the diversity of waterfowl and decreases the introduction of vectors through constant circulation of water, vegetation control, and periodic draining of</p>	<p>Consistent.</p> <p>a - d. The Project has been designed to maintain positive drainage and prevent large areas of standing water on the landscape that can provide breeding habitat for mosquitos and other vectors. Open water habitat restored onsite will be subject to daily tidal flows, which will minimize vectors.</p>

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	<p>ponds. These activities will be carried out by lead agencies or entities with designated management responsibility.</p> <ul style="list-style-type: none"> c. Tidal management activities shall include actions to minimize mosquito problems arising from the residual tidal and floodwaters remaining in depressions and cracked ground. These activities will be carried out by lead agencies or entities with designated management responsibility. d. Lead agencies or entities with designated management responsibility shall avoid ponding in tidal marsh habitat or in areas within the waterside of setback levees. Lead agencies or entities with designated management responsibility will ensure design of ecosystem restoration areas, waterfowl hunting areas, setback levees, parks, canals, and surface water storage facilities minimize standing water, or use other methods such as mosquito fish to reduce mosquito breeding. 	
14-4	<ul style="list-style-type: none"> a. Avoid creating hazardous wildlife attractants within a distance of 10,000 feet of an Airport Operations Area. b. Maintain a distance of five miles between the farthest edge of the Airport Operations Area and hazardous wildlife attractants. 	<p>Consistent.</p> <p>a, b. Travis Air Force Base is approximately 14 miles northwest and the Rio Visto Municipal Airport is approximately 1 mile west of the project site. A Wildlife Hazards Analysis (WHA) was performed for the Project (See IS/MND Appendix K). The WHA findings indicate the attractiveness of future habitat conditions proposed by the Project to wildlife hazardous would be reduced. The WHA indicates that hazards related to movement of wildlife to and from the site would also be reduced relative to existing conditions. The IS/MND includes mitigation measures to further reduce potential wildlife hazards including HAZ-1: Design Habitat Features that Minimize Bird Attractants, HAZ-2: Dewater the Restoration Area Prior to and during Construction, HAZ-3: Conduct Periodic Biological Monitoring during Construction, HAZ-4: Implement Construction Best Management Practices to Maintain a Clean Work Area, HAZ-5: Deter Bird Use of Disturbed Areas during and Immediately Following Construction, HAZ-6: Develop and Implement Adaptive Management Strategies to Address Wildlife Hazards, and HAZ-7: Develop and Implement a Public Safety Memorandum of Understanding.</p>
17-1	<ul style="list-style-type: none"> a. Develop worker training programs to reduce construction and operations risks. b. Develop adequate emergency access routes and equipment for both land and water access, if applicable (such as in the Delta), that provide for adequate response time. If use of an existing emergency access route 	<p>Consistent.</p> <p>a - c. Project construction and implementation will implement worker training programs and follow standard emergency response procedures.</p>

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	<p>becomes limited due to new or modified facilities, additional routes or placement of duplicate equipment on each side of the route limitation could be considered if needed to maintain emergency access.</p> <p>c. Develop traffic plans and emergency response plans for construction and operations phases of new facilities that contain plans for maintaining accessibility of evacuation routes.</p>	
19-3	<p>a. Coordinate with responsible local agencies to establish adequate emergency routes during construction activities and before existing emergency routes are reclassified to a nonemergency route use.</p> <p>b. Phase construction activities and use multiple routes to and from offsite locations to minimize the daily amount of traffic on individual roadways, including roadways used as evacuation routes.</p> <p>c. Post warnings about the potential presence of slow-moving vehicles.</p> <p>d. Use traffic-control personnel when appropriate.</p> <p>e. Place and maintain barriers, and install traffic-control devices necessary for safety, as specified in Caltrans' Manual of Traffic Controls for Construction and Maintenance Work Zones and in accordance with city and county requirements.</p> <p>f. Notify appropriate emergency service providers of project construction throughout the construction period to ensure that emergency access through construction areas is maintained.</p>	<p>Consistent.</p> <p>a - f. A traffic plan will be developed for Project construction to comply with Solano County and Caltrans standards in accordance with a Caltrans Encroachment Permit.</p>
Hydrology and Water Quality (Section 5.11)		
3-1	<p>a. For construction of new facilities, all typical construction mitigation measures shall be required. Typical mitigation measures include the following construction-related Best Management Practices (BMPs):</p> <ol style="list-style-type: none"> Gravel bags, silt fences, etc., shall be placed along the edge of all work areas in order to contain particulates prior to contact with receiving waters. All concrete washing and spoils dumping shall occur in a designated location. Construction stockpiles shall be covered in order to prevent blowoff or runoff during weather events. Severe weather event erosion control materials and devices shall be stored onsite for use as needed. Soil stabilization, sediment control, wind erosion control, tracking control, non-storm water management, and waste management/materials pollution control. <p>b. Implementation of other BMPs shall be required as determined necessary by the regulating entity (city, county).</p> <p>c. Any new facility with introduced impervious surfaces shall include stormwater control measures that are consistent with the Regional Water</p>	<p>Consistent.</p> <p>a - d. The Project includes extensive grading and excavation within the restoration area and construction of a new low-water crossing structure along Highway 84. The Project has been designed to minimize erosion according to geotechnical and hydraulic recommendations (see IS/MND Appendix J and N, respectively). Appropriate permits will be obtained from the RWQCB and USACE, including a NPDES construction general permit. Standard construction BMPs will be implemented during construction. See IS/MND environmental commitments EC-12: Staging Areas, EC-13: Equipment Maintenance, EC-14: Speed Limits and Fugitive Dust Reduction, EC-17: Post-Construction Cleanup, EC-18: Erosion Control Materials, EC-19: Stormwater Pollution Prevention Plan, EC-20: Hazardous Materials Management Plan, EC-21: Spill Prevention, Containment, and Countermeasure Plan, EC-22: Concrete Use, EC-23: In-Water Materials Use, EC-24: In-Water Work Access,</p>

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	<p>Quality Control Board (RWQCB) National Pollutant Discharge Elimination System (NPDES) municipal stormwater runoff requirements. The stormwater control measures shall be designed and implemented to reduce the discharge of stormwater pollutants to the maximum extent practical. Stormwater controls such as bioretention facilities, flow-through planters, detention basins, vegetative swales, covering pollutant sources, oil/water separators, and retention ponds shall be designed to control stormwater quality to the maximum extent practical.</p> <p>d. For any construction activities with the potential to cause in-river sediment disturbance associated with construction:</p> <ul style="list-style-type: none"> i. Apply BMPs to avoid or reduce temporary increases in suspended sediment. These BMPs for in-channel construction and levee disturbance may include, but are not limited to, silt curtains, cofferdams, the use of environmental dredges, erosion control on all inward levee slopes, and various levee-stabilization techniques, including revegetation. As required by project permits, all construction sites shall include preparation and implementation of a Storm Water Pollution Prevention Plan and BMPs designed to capture spills and prevent erosion to the waterbody. Turbidity shall be monitored up- and downstream of construction sites as a measure of impact. ii. Apply bank stabilization BMPs, as needed, for any in-channel disturbance, such as: <ul style="list-style-type: none"> 1. Where appropriate, a 100-foot vegetative or engineered buffer shall be maintained between the construction zone and surface water body. 2. Native and annual grasses or other vegetative cover shall be established on construction sites immediately upon completion of work causing disturbance, to reduce the potential for erosion close to a waterway or water body. 3. Where dredging would be particularly prone to the production of re-suspended sediment and contaminants, potential impacts shall be reduced through the use of submerged dredge cutter heads, silt curtains, and cofferdams, depending upon the site- specific soil conditions in the channel. 	<p>and EC-25: In-Water Placement of Materials, Structures, and Operation of Equipment.</p>
5-1	<p>a. Prepare and implement a drainage or hydrology and hydraulic study that would assess the need and provide a basis for the design of drainage-related mitigations, such as new onsite drainage systems or new cross drainage facilities. Prepare the study in accordance with applicable standards of Federal Emergency Management Agency (FEMA), USACE, Department of</p>	<p>Consistent.</p> <p>a - k. The Project site is located within the Yolo Bypass, a designated floodway, and is intended to flood during high-water events. The Project site is covered by existing flowage easements managed by the CVFPB.</p>

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	<p>Water Resources (DWR), CVFPB, as well as the local reclamation districts and flood control agencies and the counties and cities. Design subsequent mitigation measures in accordance with the final study and with the applicable standards of FEMA, USACE, DWR, and CVFPB. The study would identify potential increases in flood risks, including those that may result from new facilities.</p> <ul style="list-style-type: none"> b. Provide drainage bypass facilities during construction that reroute drainage around, along, or over the Proposed Project facilities and construction sites. The temporary bypass facilities would be designed in accordance with the results and recommendations of a drainage or hydrologic and hydraulic study and would be in place and fully functional until long-term replacement facilities are completed. c. Provide on-site stormwater detention storage at construction and project facility sites that would reduce project-caused short- or long-term increases in drainage runoff. The storage space placement and capacity would be designed based on the drainage or hydrologic and hydraulic study. d. Based on the results of the drainage or hydrologic and hydraulic study, arrange the length of any stockpiles or other construction features in the direction of the floodplain flow to maximize surface flows under flood flow conditions. e. At instream construction sites that might reduce channel capacity, install setback levees or bypass channels to maintain channel capacity and to mitigate hydraulic impacts. f. Where low channel velocities might result from construction, implement a sediment management program in order to maintain channel capacity. g. Provide cross drainage, replacement drainage paths and facilities, and enlarged flow paths to reroute drainage around, under, or over the Proposed Project facilities and to restore the function of any affected existing drainage or flow paths and facilities. h. Channel modifications for restoration actions shall be required to be implemented to maintain or improve flood management functions and would be coordinated with the USACE, DWR, CVFPB, and other flood control agencies to assess the desirability and feasibility for channel modifications. To the extent consistent with floodplain land uses and flood control requirements, if applicable, woody riparian vegetation shall be allowed to naturally establish. i. For areas that would be flooded as a result of the project, or where existing flooding would be increased in magnitude, frequency, or duration, purchase a flowage easement and/or property at the fair-market value. j. Provide a long-term sediment removal program at in-river structures. 	<p>The Project will apply for and acquire a CVFPB Encroachment Permit and USACE Section 408 permission. Hydrology and hydraulic evaluations were performed to inform the restoration design with the goal of restoring full tidal action on the Project site and analyzing potential effects on water surface elevation and flood risk (see IS/MND Appendix N).</p>

Attachment C. Mitigation Measures and Project Consistency with the Delta Plan Ecosystem Amendment MMRP for the Cache Slough Mitigation Bank

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	To mitigate potential impacts of changes in the timing of reservoir releases or the possible combination of river peak flows, use forecasts to implement coordination of operations with existing reservoirs	
5-2	<ul style="list-style-type: none"> a. Prepare a drainage or hydrology and hydraulics study that would assess the need and provide a basis for the design of drainage-related mitigations, such as new onsite drainage systems or new cross drainage facilities. Prepare the study in accordance with applicable standards of FEMA, USACE, DWR, CVFPB, as well as the local reclamation districts and flood control agencies and the counties and cities. Design subsequent mitigation measures in accordance with the final study and with the applicable standards of FEMA, USACE, DWR, and CVFPB. b. Provide on-site stormwater detention storage at construction and project facility sites that reduces project-caused, short- and long-term increases in drainage runoff. The storage space shall be designed based on the drainage or hydrologic and hydraulic study. 	<p>Not applicable.</p> <p>a, b. The Project does not include onsite drainage systems, cross drainage facilities, or on-site stormwater detention storage.</p>
5-4	<ul style="list-style-type: none"> a. Prepare and implement a drainage or hydrology and hydraulics study to assess the need and provide a basis for the design of drainage-related mitigations, such as new onsite drainage systems or new cross drainage facilities. Prepare the study in accordance with applicable standards of FEMA, USACE, DWR, CVFPB, as well as the local reclamation districts and flood control agencies and the counties and cities. Design recommended drainage-related mitigation in accordance with the final study and applicable standards of FEMA, USACE, DWR, and CVFPB. b. Where high channel velocities might result from construction, provide bank protection, such as riprap, to protect levees from erosion. c. Where construction results in longer channel wind fetch lengths, install vegetative buffer zones or wave erosion protection on the waterside slope of levees, such as rock or grout. 	<p>Consistent.</p> <p>a - b. A Bridge Hydraulic Study was performed to inform the low-water crossing structure design and address bank stabilization needs, including placement of rock slope protection on the channel slopes and bridge abutments.</p> <p>c. The Project includes construction of 10:1 sloped vegetative habitat berms around the perimeter of the Project site that will reduce wave erosion and provide buffers from adjacent levee facilities.</p>
5-5	<ul style="list-style-type: none"> a. Prepare and implement a drainage or hydrology and hydraulics study that assesses the need and provide a basis for the design of drainage-related mitigations, such as new on-site drainage systems or new cross drainage facilities. Prepare the study in accordance with applicable standards of FEMA, USACE, DWR, CVFPB, as well as the local reclamation districts and flood control agencies and the counties and cities. Design subsequent mitigation measures in accordance with the final study and with the applicable standards of FEMA, USACE, DWR, and CVFPB. Provide temporary drainage bypass facilities that would reroute drainage around, along, or over the Proposed Project facilities and construction sites. The temporary bypass facilities shall be designed in accordance with drainage or hydrology and hydraulic study and shall be in place and fully functional until long-term replacement facilities are completed. 	<p>Not applicable.</p> <p>a - e. The Project does not include instream construction or channel modifications.</p>

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	<ul style="list-style-type: none"> b. Based on the results of the drainage or hydrologic and hydraulic study, arrange the length of any stockpiles or other construction features in the direction of the floodplain flow to maximize surface flows under flood conditions. c. At instream construction sites that might reduce channel capacity, install setback levees or bypass channels to maintain channel capacity and to mitigate hydraulic impacts. d. Provide cross drainage, replacement drainage paths and facilities, and enlarged flow paths to reroute drainage around, under, or over the Proposed Project facilities and to restore the function of any affected existing drainage or flow paths and facilities. e. Channel modifications for restoration actions shall be required to be implemented to maintain or improve flood management functions and would be coordinated with the USACE, DWR, CVFPB, and other flood control agencies to assess the desirability and feasibility for channel modifications. To the extent consistent with floodplain land uses and flood control requirements, if applicable, woody riparian vegetation would be allowed to naturally establish. 	
Land Use and Planning (Section 5.12)		
6-2	<p>Compensate for the loss or reduction in environmental values due to a conflict with an adopted plan or policy by implementing the following or equally effective measures:</p> <ul style="list-style-type: none"> a. Recording a deed restriction that ensures permanent conservation and mitigation on other property of equal or greater environmental mitigation value; b. Creating a buffer or barrier between uses; c. Redesigning the project or selecting an alternate location that avoids or mitigates the impact; and/or d. Restoring disturbed land to conditions to provide equal or greater environmental value to the land affected by the covered action. 	<p>Consistent.</p> <p>a - d. The Project will restore tidal wetland habitat, thereby increasing environmental values on the Project site. These proposed ecological restoration activities are consistent with regional restoration goals and priorities. The Project site is designated as Agriculture Minimum 80 acres (A-80), which allows for conservation and mitigation banking with a condition Use Permit from Solano County. Additionally, the Project site is enrolled in a Williamson Act contract as an Agricultural Preserve, which allows for open space uses including marsh preservation. This Project does not conflict with relevant existing land use designations plans, policies, or regulations. Land use designations would not be changed.</p>
Noise (Section 5.13)		
15-1	<ul style="list-style-type: none"> a. Limit the hours of operation at noise-generation sources located near or adjacent to noise-sensitive areas, wherever practicable, to reduce the level of exposure to meet applicable local standards. b. Locate construction equipment away from sensitive receptors, to the extent feasible, to reduce noise levels below applicable local standards. 	<p>Consistent.</p> <p>a - f. The Project is located in a mostly industrial and rural setting. Construction activities will be limited to daylight hours. Based on Analysis in the IS/MND, the closest noise-sensitive receivers are approximately 4,000 feet from the Project site and anticipated noise</p>

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	<ul style="list-style-type: none"> c. Maintain construction equipment to manufacturers' recommended specifications, and equip all construction vehicles and equipment with appropriate mufflers and other approved noise-control devices. d. Limit idling of construction equipment to the extent feasible to reduce the time that noise is emitted. e. Conduct individual traffic noise analysis of identified haul routes and provide mitigation, such as reduced speed limits, at locations where noise standards cannot be maintained for sensitive receptors. f. Incorporate use of temporary noise barriers, such as acoustical panel systems, between construction activities and sensitive receptors if it is concluded that they would be effective in reducing noise exposure to sensitive receptors. 	<p>levels from Project construction would be well below County standards.</p>
15-2	<ul style="list-style-type: none"> a. Conduct a preliminary groundborne vibration analysis report to determine future construction-related groundborne vibration levels based on, but not limited to, a detailed equipment list, hours of operation, and distances to sensitive receptors located within 500 feet of project sites. b. If the results of the analysis determine that groundborne vibration would exceed applicable thresholds at sensitive receptors, the following measures shall be implemented: <ul style="list-style-type: none"> i. Designate a compliance coordinator and post this person's contact information in a location near construction areas where it is clearly visible to the nearby receptors most likely to be affected. The coordinator shall manage complaints and concerns resulting from activities that cause vibrations. The severity of the vibration concern should be assessed by the coordinator and, if necessary, evaluated by a qualified noise and vibration control expert. ii. Conduct vibration monitoring before and during vibration generating operations occurring within 100 feet of historic structures. Every attempt shall be made to limit construction-generated vibration levels during pile driving and other groundborne noise and vibration-generating activities in the vicinity of the historic structures in accordance with recommendations of the appropriate agency with authority. iii. Cover or temporarily shore adjacent historic features, as necessary, for protection from vibrations, in consultation with the appropriate cultural resources authority. iv. Avoid or minimize the use of construction equipment known to generate high levels of groundborne vibration (e.g., pile drivers). v. Require that any pile driving within a 50-foot radius of residences use alternative installation methods where possible (e.g., pile 	<p>Not applicable.</p> <p>No sensitive receptors are located within 500 feet of the Project site.</p>

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	<p>cushioning, jetting, predrilling, cast-in-place systems, resonance-free vibratory pile drivers) to reduce the number and amplitude of blows required to seat the pile.</p> <p>vi. Conducting pile-driving activities within 285 feet of sensitive receptors shall be limited to daytime hours to avoid sleep disturbance during evening and nighttime hours.</p>	
15-3	<p>a. Identify noise-sensitive receptors in the vicinity of project activities and design projects to minimize exposure of sensitive receptors to long-term, operational noise sources (for example, water pumps) to reduce noise levels below applicable local standards.</p> <p>b. Conduct a preliminary noise analysis report to determine future operation-related noise and distances to sensitive receptors. If results of the analysis determine that operation-related noise levels would exceed applicable thresholds at sensitive receptors, noise-minimizing measures shall be incorporated into design, including but not limited to building a structure to encase the new noise generating infrastructure. Materials (masonry brick, metal shed, wood) used to house the infrastructure will be of solid construction and void of gaps at the ground, roof line, and joints. All vents will include acoustically rated louvers.</p> <p>d. Locate parking lots no closer than 65 feet from the nearest residential property line and at least 25 feet from habitat for noise-sensitive wildlife species unless:</p> <p>i. A detailed noise study is conducted that determines that placement of parking lots closer than the distances specified above will not result in noise levels that exceed 67 dBA at the nearest residential property line or 60 dBA from noise-sensitive habitat; or</p> <p>ii. Appropriate mitigation measures, including permanent noise barriers, can be incorporated to reduce noise levels to equal the ambient noise level or referenced thresholds for residential property and noise sensitive habitat.</p>	<p>Not applicable.</p> <p>Operational activities on the Project site will be limited to periodic monitoring and management of restored wetland habitat. The Project would not include new operational noise sources that would result in changes to the ambient noise environment associated with the Project. The Project would also not change traffic flows, volumes, or location.</p>
Recreation (Section 5.15)		
18-1	<p>a. Projects shall be sited in areas that will not impair, degrade, or eliminate recreational facilities and opportunities. If this is not feasible, projects shall be designed such that recreational facilities and opportunities will be avoided or minimally affected. Once project construction activities have been completed, any affected recreational facilities and opportunities should be restored to original conditions if possible. Where impacts to existing facilities and opportunities are unavoidable, new permanent or replacement facilities and opportunities shall be constructed that are similar in type and capacity.</p>	<p>Not applicable.</p> <p>The Project site is on private property that was not open to public access or recreation.</p>

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18-2	<ul style="list-style-type: none"> a. If substantial temporary or permanent impairment, degradation, or elimination of recreational facilities causes users to be directed towards other existing facilities, lead agencies shall coordinate with impacted public and private recreation providers to direct displaced users to under-utilized recreational facilities through signage and public noticing, such as newsletters. b. Lead agencies shall provide additional operations and maintenance of existing facilities in order to prevent deterioration of these facilities. c. If the increase in use is temporary, the condition of the facilities prior to construction shall be documented, and once use returns to existing conditions, degraded facilities shall be rehabilitated or restored to their original condition. d. Where impacts to existing facilities are unavoidable, affected facilities shall be restored to their pre-construction condition once project construction activities are complete. If this is not feasible, new permanent or replacement facilities shall be constructed that are similar in type and capacity. 	<p>Not applicable.</p> <p>The Project site is on private property that was not open to public access or recreation. No public recreational sites are located in the immediate vicinity of the Project site. Implementation of the project is not expected to impair, degrade, or eliminate existing recreational opportunities.</p>
Transportation (Section 5.16)		
19-1	<ul style="list-style-type: none"> a. Design projects to avoid modifications to federal, State, and county highways, local roadways, and bridges that may reduce vehicle capacity, to the extent feasible. b. Develop and implement a traffic control plan to reduce effects of roadway construction activities, including full and partial lane closures, bicycle and pedestrian facility closures, and reduced access to adjacent properties. The traffic control plan shall identify the following or equally effective measures: minimize lane closures during morning and evening peak hours; limit lane closures near the affected segment; reroute bicycle and pedestrian access around the project area; prevent bicyclists and pedestrians from entering the work area; and identify specific project-vehicle access routes that would avoid additional traffic in residential areas or would adversely affect other sensitive land uses, where feasible. c. Install roadway status signs at strategic locations in the Delta to inform the public of roadway closures and limits to ingress to/egress from Delta Islands. The signs shall include maps showing the relative locations of road closures and access restrictions to other Delta features. d. For project operations that increase traffic, prepare a traffic study. The traffic study shall: determine haul routes that would be used; evaluate the potential impact of project traffic with respect to VMT; and evaluate the potential impact of project traffic on roadway safety and accessibility for all users (i.e., passenger vehicles, public transit, emergency service providers, bicycles, and pedestrians). If project traffic would result in a significant VMT impact, then appropriate measures shall be implemented to reduce VMT to the extent feasible. If project traffic would result in impacts to any of the roadway users 	<p>Consistent.</p> <ul style="list-style-type: none"> a. The Project includes construction of a low-water crossing structure on highway 84. This structure will conform to existing Caltrans standards and will not reduce vehicle capacity. b, c, e, g. The Project will acquire an encroachment permit from Caltrans to conduct work on a state highway. The Project will prepare a traffic control plan that will include one-way lane closures in accordance with Caltrans standard plans. f. The Project will not change existing flood stage elevations at State Route 84 and no construction activities would be conducted during the designated flood season (November 1 to April 15). d, h. Not applicable. The Project will not increase traffic or change future traffic patterns as a result of Project operations. i. Not applicable. Construction and implementation of the project will not impede navigation.

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	<p>listed above, then an alternate route shall be selected for project traffic or schedule project trips for non-peak-hour periods. If alternate routes are not feasible, then facility improvements shall be designed and constructed at intersections or road segments to maintain safe travel conditions and accessibility.</p> <ul style="list-style-type: none"> e. Coordinate with Caltrans and/or other local agencies with jurisdiction over transportation system features during the planning and analysis of projects for the purpose of minimizing impacts on bridges, roadways, culverts, or other features that may be affected. Agencies responsible for constructing and maintaining levees on which a public roadway may be located shall also be consulted to ensure consistency with levee design criteria. f. For roads that will be flooded during floodplain operation, a vehicular traffic detour plan shall be prepared and shall be implemented prior to roadway inundation. The detour plan shall provide convenient and parallel vehicular traffic detours for routes closed because of inundation. The detour plan shall be prepared and implemented in accordance with current Caltrans Standard Plans and Specifications. (A temporary crossing structure, for example a Bailey Bridge, may be used to maintain circulation and avoid a detour plan.) After the detour route is identified and before flood flows are released that would overtop roads, the condition of the detour road surface shall be assessed and documented. g. If roadways are to be partially or totally blocked during construction activities, a detour plan shall be prepared prior to beginning construction. The detour plan shall include an assessment of existing roadway conditions, whether paved or unpaved, and provisions for repair and maintenance if the roadway conditions are substantially degraded from increased use. The documentation shall be submitted to the local agency responsible for maintenance of the road. After the detour is no longer needed, the condition of the road surface shall be assessed again and documented. The documentation shall identify substantial changes in the condition of the road surface, such as potholing or rutting. If substantial damage to roads and/or driveways occurs, repairs shall be implemented to restore the roads and/or driveways to their previous condition. Roadside drainage structures and road drainage features (e.g., rolling dips) shall be protected by regrading and reconstructing roads to restore the drainage structures and features to their previous condition. <p>The detour plan shall prioritize paved roads for use as detour routes. If use of paved roadway detours is not feasible during flood flow road inundation periods, the detour plan shall require that visible dust emissions from unpaved detour routes be limited to the percent opacity indicated by the appropriate air pollution control district. The following dust control measures may be used to stabilize unpaved roadways:</p>	

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	<ul style="list-style-type: none"> • Watering • Uniform layer of washed gravel • Roadmix • Paving <p>Any other method that can be demonstrated to the satisfaction of the appropriate air pollution control district that effectively limits visible dust emission to the local percent opacity standard and meets the conditions of a stabilized unpaved road.</p> <p>h. Traffic impact reports shall be prepared that meet the applicable agencies' standards to assess potential impacts on appropriate street segments, intersections, and highway/freeway on- and off-ramps. The traffic impact reports shall identify impacts that exceed the agencies' guidelines for significance and identify appropriate mitigation. Acceptable mitigation measures may include:</p> <ul style="list-style-type: none"> • Turn restrictions • Roadway widening to add lanes or shoulders • Redesign of freeway on- and off-ramps • Median construction/modification to restrict access • Flaring of intersections to add turn lanes • Provision of passing lanes or turnouts • Acceleration and deceleration lanes • Removal of obstructions • Roundabouts • Restriping to add lanes with or without parking removal and restrictions • Protected left-turn pockets or free right-turn lanes • Parking restrictions, daily or during peak hours • Fair-share contributions to approved projects identified in the agency's Capital Improvement Plan • Fair-share contributions to traffic signals identified in the agency's traffic signal plan <p>i. Prepare and implement a waterway traffic control plan to ensure safe and efficient vessel navigation during construction in waterways. The plan shall identify vessel traffic control measures to minimize congestion and navigation hazards to the extent feasible. Construction areas in the waterway shall be barricaded or guarded by readily visible barriers or other effective means to warn boaters of their presence and restrict access. Warning devices and signage shall be consistent with the California Uniform State Waterway Marking System and effective during non-daylight hours and periods of dense fog. The waterway traffic control plan shall contain the following:</p>	

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	<ul style="list-style-type: none"> i. Where temporary partial channel closure is necessary, a temporary channel closure plan shall be developed. The waterway closure plan will identify and implement alternate detour routing and procedures for notifying boaters of construction activities and partial closures, including coordination with the U.S. Coast Guard, local boating organizations, and marinas. ii. To the extent feasible, ensure that safe boat access to public launch and docking facilities, businesses, and residences is maintained. iii. Coordinate with transit system operators to establish appropriate alternate transit system routes to be rerouted during construction activities, as appropriate. iv. Boat passage facilities shall be provided as an integral component of operable gate facilities, when feasible. Boat passage facilities shall be designed to provide uninterrupted boat passage when gates are in the "up" position. Floating docks with mooring bits shall be provided along the shoreline on both sides of the boat passage facility for boaters to use while they await passage. Floating barriers will guide boats into the passage facility chambers. v. Implement a program to provide boater education on procedures for waiting at and using the boat passage facility. vi. Minimize impacts on bicycle and pedestrian circulation where feasible by avoiding impacts, minimizing closure of paths, and providing for temporary or permanent relocation of the facility to the extent feasible. Consult with the appropriate public works department to determine the most feasible alignment for facility relocation. 	
19-2	<ul style="list-style-type: none"> a. Develop and implement a program that shall include procedures for routine inspections and emergency facility operation to allow safe navigation should the facility become damaged or malfunction. The program shall include the following specific components: <ul style="list-style-type: none"> i. Routine inspections and correction procedures to ensure that facility safety features are in good working order. ii. Routine inspections and correction procedures for navigational hazards around facilities, including floating or submerged debris and the formation of shoals. iii. Contingency and emergency operating procedures to address the possibility that a boat colliding with the flow control facilities could damage the facilities or otherwise render them unable to operate as engineered, and provisions to allow safe navigation. 	

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Utilities and Public Service (Section 5.18)		
20-1	<ul style="list-style-type: none"> a. Limit disposal of construction debris and other solid waste at local landfills if the landfills have limited capacity. b. Dispose of all construction debris at landfills and disposal facilities that are licensed for the type of wastes to be disposed. If the landfills and disposal facilities are not located near future construction sites, include analysis of transportation of solid waste in future environmental documentation for specific projects. c. Require construction contractors to prepare construction debris management plans and require reuse or recycling of construction debris. d. Develop project-specific solid waste plans to maximize practices that reduce and recycle solid waste and sludge generated by water, wastewater, and stormwater treatment facilities; and collect, recycle, or compost litter and solid waste generated at new facilities designed for visitor use (such as parks and visitor centers). 	<p>Consistent.</p> <p>b - e. Restoration activities will generate minimal construction debris since no existing structure demolition is required. Large woody debris would be used on site as part of restoration activities. Proposed roadway improvements during construction of the new water crossing will require demolition of the existing road surface that will be disposed of locally at an approved recycling facility. All construction debris will be removed from the 100-year floodplain by the end of the construction window and deposited at an appropriate disposal site or storage site for reuse. Waste removal will not result in discharges to nearby waterbodies. See IS/MND environmental commitment EC-17: Post-Construction Cleanup.</p>
Wildfire (Section 5.19)		
14-5	<ul style="list-style-type: none"> a. Prepare and implement a fire management plan to minimize potential for wildland fires. The plan shall include requirements for carrying emergency fire equipment, conducting “tailgate meetings” that include discussions about fire safety, and restricting construction during red flag warnings. Measures in the plan shall include the following strategies for reducing the potential for fire: <ul style="list-style-type: none"> i. Store fire suppression tools in or near work activities. ii. Train construction crews and other on-site personnel on fire prevention and suppression for the project. Hold a fire prevention discussion as part of each day’s safety meeting. iii. Identify a person responsible for monitoring fire-safe practices to ensure implementation of measures and to communicate with emergency responders in the case that there is a fire. iv. Require installation and maintenance of spark arresters and other fire-reducing measures on equipment. 	<p>Consistent.</p> <p>a. The Project will prepare and implement a fire prevention and suppression plan and incorporate fire protection measures during construction. See IS/MND environmental commitment EC-14: Wildlife Prevention and mitigation measure HAZ-9: Fire Prevention Measures.</p>