

MITIGATION MONITORING PROGRAM

INTRODUCTION

In accordance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA), the California Department of Water Resources (DWR) prepared an Mitigated Negative Declaration (MND/IS) that identifies potentially significant effects related to the Emergent Wetland Creation Project. The IS/MND and EA also identifies mitigation measures that would reduce or eliminate these significant effects.

Section 21081.6 of the California Public Resources Code and §15091(d) and 15097 of the State CEQA Guidelines require public agencies “to adopt a reporting or monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” A Mitigation Monitoring Program (MMP) is required for the Emergent Wetland Creation Project because the IS/MND and EA for the project identified potentially significant adverse impacts related to construction activities, and mitigation measures have been identified to reduce those impacts to a less-than-significant level.

Adoption of this MMP will occur as part of the approval of the proposed project.

PURPOSE OF MITIGATION MONITORING PROGRAM

This MMP has been prepared to ensure that all required mitigation measures are implemented and completed according to schedule and maintained in a satisfactory manner during the construction of the project, as required. The MMP may be modified by DWR during project implementation, as necessary, in response to changing conditions or other refinements. A table (attached) has been prepared to assist the responsible parties in implementing the MMP. The table identifies individual mitigation measures, monitoring/mitigation timing, responsible person/agency for implementing the measure, monitoring procedures, and a record of implementation of the mitigation measures. The numbering of mitigation measures follows the numbering sequence found in the MND/IS.

ROLES AND RESPONSIBILITIES

Unless otherwise specified herein, DWR is responsible for taking all actions necessary to implement the mitigation measures according to the specifications provided for each measure and for demonstrating that the action has been successfully completed. DWR may delegate implementation responsibility or portions thereof to a licensed contractor.

DWR will be responsible for overall administration of the MMP and for verifying that DWR staff or a qualified contractor has completed the necessary actions for each measure. In addition, DWR will designate a project manager to oversee the MMP during the construction period. Duties of the project manager include the following:

- < Ensure that routine inspections of the construction site are conducted by appropriate DWR staff; and check plans, reports, and other documents required by the MMP.
- < Serve as a liaison between DWR and the construction contractor regarding mitigation monitoring issues.
- < Complete forms and maintain records and documents required by the MMP.

< Coordinate and ensure that corrective actions or enforcement measures are taken, if necessary.

The responsible party for each item of implementation will identify the staff members responsible for coordinating with DWR on the MMP.

MITIGATION MONITORING PROGRAM SUMMARY TABLE

The MMP Summary Table that follows should guide DWR in its evaluation and records of the implementation of mitigation measures.

The column categories identified in the MMP Summary Table are described below:

Mitigation Number – This column lists the mitigation measures by number.

Mitigation Measure – This column provides the text of the mitigation measures identified in the MND.

Timing/Schedule – This column lists the time frame in which the mitigation will take place.

Implementation Responsibility – This column identifies the entity responsible for complying with the requirements of the mitigation measure.

Implementation and Verification – These columns are for verifying compliance. The “Action” column describes the type of action taken to verify implementation. The “Date Completed” column is to be dated and initialed by the project manager, or his/her designee, based on the documentation provided by qualified contractors or through personal verification by DWR representatives.

**Summary Table
Mitigation Monitoring Program for the Emergent Wetland Creation Project**

Mitigation Number	Mitigation Measure	Timing/Schedule	Implementation Responsibility	Implementation & Verification	
				Action	Date Completed
Air Quality					
3.3.1	<p>Implement Applicable Measures to Reduce Construction-Related Emissions of Fugitive Dust. DWR will require the contractor to implement the following BCAQMD-recommended standard mitigation measures to reduce project-generated construction-related emissions of fugitive dust:</p> <ul style="list-style-type: none"> ▶ Water will be applied by means of truck(s), hoses, and/or sprinklers as needed prior to any land clearing or earth movement to minimize dust emission. ▶ Haul vehicles transporting soil into or out of the property will be covered. ▶ A water truck or spraying system will be on site at all times. Water will be applied to disturbed areas a minimum of 2 times per day or more as necessary. ▶ On-site vehicles will be limited to a speed which minimizes dust emissions on unpaved roads. ▶ DWR will post a publicly visible sign with the telephone number and person to contact regarding dust complaints. This person will respond and take corrective action within 24 hours. The telephone number of BCAQMD will also be visible to ensure compliance with BCAQMD Rules 200 (Nuisance) & 205 (Fugitive dust Emissions). ▶ All visibly dry disturbed soil surfaces areas of operation will be watered to minimize dust emissions. ▶ Existing roads and streets adjacent to the project will be cleaned at least once per day unless conditions warrant a greater frequency. ▶ All visibly dry disturbed unpaved roads and surface areas of operation will be watered to minimize dust emissions. ▶ Unpaved roads may be graveled to reduce dust emissions. 	Prior to and during construction	DWR and Contractors		

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				Action	Date Completed
	<ul style="list-style-type: none"> ▶ Haul roads shall be sprayed down at the end of the work shift to form a thin crust. This application of water shall be in addition to the minimum rate of application. ▶ Vehicles entering or exiting construction area shall travel at a speed which minimizes dust emissions. ▶ Construction workers shall park in designated parking area(s) to help reduce dust emissions. 				
3.3.2	<p>Implement Applicable Measures to Reduce Construction-Related Exhaust Emissions. DWR will require the contractor to implement the following BCAQMD-recommended standard mitigation measures to reduce project-generated construction-related exhaust emissions:</p> <ul style="list-style-type: none"> ▶ Maintain all construction equipment in proper tune according to manufacturer’s specifications. ▶ Maximize to the extent feasible, the CARB’s 1996 or newer certification standard for off-road heavy-duty diesel engines. ▶ Minimize idling time to 5 minutes. ▶ Substitute gasoline-powered for diesel-powered, where feasible. ▶ Use equipment that has Caterpillar pre-chamber diesel engines, where feasible. ▶ Construction contracts shall request the Contractor achieve a project wide fleet-average 20% NO_x reduction and 45% particulate reduction for heavy-duty (>50 horsepower) off road vehicles compared to the most recent ARB fleet average at time of construction. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other 	Prior to and during construction	DWR and Contractors		

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options as they become available.					
Biological Resources					
3.4.1	▶ No excavation and grading activities would occur within 200 feet of the central ditch between October 1 and May 1.	Prior to and during construction	DWR and Contractors		
Hydrology and Water Quality					
3.8.1	<ul style="list-style-type: none"> ▶ Conduct all work according to site-specific construction plans that identify areas for clearing and grading. ▶ Avoid riparian vegetation wherever possible. Woody vegetation will be retained on site and will be clearly marked prior to construction activities. ▶ Stabilize disturbed soils before onset of heavy winter rains. ▶ Develop and implement strict onsite handling rules to keep construction and maintenance materials out of drainages and waterways. ▶ Conduct all refueling and servicing of equipment with absorbent material or drip pans underneath to contain spilled fuel. Collect any fluid drained from machinery during servicing in leak-proof containers and deliver to an appropriate disposal or recycling facility. ▶ Maintain controlled construction staging, site entrance and fueling areas at least 100 feet away from water channels or wetlands to minimize accidental spills and runoff of contaminants in stormwater. ▶ Prevent any petroleum products that could be hazardous to aquatic life from contaminating the soil or entering watercourses. ▶ Maintain spill cleanup equipment in proper working condition. Clean up all spills immediately according to the spill prevention and response plan, and immediately notify 	Prior to and during construction	DWR and Contractors		

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	DFG and the RWQCB of any spills and cleanup procedures.				
	Prepare a Storm Water Pollution Prevention Plan. Before the start of any construction work, site grading, or excavation associated with the setback levees, the construction contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP) detailing measures to control soil erosion and waste discharges from the construction areas and submit a Notice of Intent (NOI) to the Central Valley RWQCB Redding Office for stormwater discharges associated with general construction activity,	Prior to and during construction	Contractors		
Noise					
3.11.1	<ul style="list-style-type: none"> ▶ Limit construction activities to the daylight hours between 7 a.m. to 7 p.m. ▶ Ensure all construction equipment have mufflers no less effective than original equipment and maintained to minimize noise generation. 	Prior to and during construction	DWR and Contractors		