



Mitigation Monitoring and Reporting Program

Moreno Valley Groundwater Development Program

Prepared for:

**Eastern Municipal Water District
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Mitigation Monitoring and Reporting Program Moreno Valley Groundwater Development Program

The California Environmental Quality Act (CEQA) requires that when a public agency completes an environmental document which includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring program. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring program must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, the following MITIGATION MONITORING AND REPORTING CHECKLIST has been prepared for the Moreno Valley Groundwater Development Program. This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable Conditions of Approval relative to significant environmental impacts are monitored and reported. Monitoring will include: 1) verification that each mitigation measure has been implemented, 2) recordation of the actions taken to implement each mitigation, and 3) retention of records in the Moreno Valley Groundwater Development Program project file.

This Mitigation Monitoring and Reporting Program delineates responsibilities for monitoring the Program, but also allows Eastern Municipal Water District (EMWD) flexibility and discretion in determining how best to monitor implementation. Monitoring procedures will vary according to the type of mitigation measure. Adequate monitoring consists of demonstrating that monitoring procedures took place and that mitigation measures were implemented.

Reporting consists of establishing a record that a mitigation measure is being implemented and generally involves the following steps:

- ❖ EMWD distributes reporting forms to the appropriate persons for verification of compliance.
- ❖ Departments/agencies with reporting responsibilities will review the Environmental Impact Report or Initial Study and Mitigated Negative Declaration, which provides general background information on the reasons for including specified mitigation measures.
- ❖ Problems or exceptions to compliance will be addressed to EMWD as appropriate.
- ❖ Periodic meetings may be held during project implementation to report on compliance of mitigation measures.
- ❖ Responsible parties provide EMWD with verification that monitoring has been conducted and ensure, as applicable, that mitigation measures have been implemented. Monitoring compliance

may be documented through existing review and approval programs such as field inspection reports and plan review.

- ❖ EMWD or Applicant prepares a reporting form periodically during the construction phase and an annual reporting summarizing all project mitigation monitoring efforts.
- ❖ Appropriate mitigation measures will be included in construction documents and/or conditions of permits/approvals.

Minor changes to the Mitigation Monitoring and Reporting Program, if required, would be made in accordance with CEQA and would be permitted after further review and approval by EMWD. Such changes could include reassignment of monitoring and reporting responsibilities, program redesign to make any appropriate improvements, and/or modification, substitution or deletion of mitigation measures subject to conditions described in CEQA Guidelines Section 15162. No change will be permitted unless the Mitigation Monitoring and Reporting Program continues to satisfy the requirements of Public Resources Code Section 21081.6.

Mitigation Monitoring and Reporting Program Checklist

Moreno Valley Groundwater Development Program

Mitigation Measure	Monitoring Process	Monitoring Timing	Responsible Person(s)	Date Completed
<p>Air Quality</p> <p>EMWD will appoint a construction relations officer to act as a community liaison concerning on-site construction activities including resolution of issues related to PM₁₀ generation.</p> <p>EMWD will include the following mitigation measures in its standard construction specifications:</p> <p>The contractor shall:</p> <ul style="list-style-type: none"> ❖ Utilize electricity from power poles instead of from temporary diesel or gasoline power generators, when feasible. ❖ Require the use of 2010 and newer diesel haul trucks (e.g., material delivery trucks and soil import/export) and if the lead agency determines that 2010 model year or newer diesel trucks cannot be obtained the lead agency shall use trucks that meet EPA 2007 model year NO_x emissions requirements. ❖ Require that all on-site construction equipment meet EPA Tier 3 or higher emissions standards according to the following: <ul style="list-style-type: none"> ✓ Project start, to December 31, 2014: All off-road diesel-powered construction equipment greater than 50 hp shall meet Tier 3 off-road emissions standards. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations. 	<p>Project Records.</p> <p>Site Inspection.</p> <p>Site Inspection.</p> <p>Site Inspection.</p>	<p>Prior to Construction.</p> <p>During Construction.</p> <p>During Construction.</p> <p>During Construction.</p>	<p>Project Manager.</p> <p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p>	<p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p>

*Mitigation Monitoring and Reporting Program Checklist
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<ul style="list-style-type: none"> ✓ Post-January 1, 2015: All off-road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards, where available. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations. ✓ A copy of each unit's certified tier specification, BACT documentation, and CARB or SCAQMD operating permit shall be provided at the time of mobilization of each applicable unit of equipment. 				
<ul style="list-style-type: none"> ❖ Maintain construction equipment engines by keeping them properly tuned and maintained according to manufacturer's specifications. ❖ Use alternative fuels or clean and low-sulfur fuel for equipment. ❖ Idle trucks in accordance with the Airborne Toxic Control Measure (ACTM) to Limit Diesel Fueled Commercial Motor Vehicle Idling and other applicable laws. ❖ Spread soil binders on site, where appropriate, unpaved roads and staging areas. ❖ Water site and equipment as necessary to control dust. ❖ Sweep all streets at least once per day using SCAQMD Rule 1186 certified street sweepers or roadway washing trucks if visible soil materials are carried to adjacent streets. ❖ Conduct operations in accordance with SCAQMD Rule 403 	<ul style="list-style-type: none"> Site Inspection. Site Inspection. Site Inspection. Site Inspection. Site Inspection. Site Inspection. Site Inspection. 	<ul style="list-style-type: none"> During Construction. During Construction. During Construction. During Construction. During Construction. During Construction. During Construction. 	<ul style="list-style-type: none"> Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. 	<ul style="list-style-type: none"> By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____

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<p>requirements.</p> <ul style="list-style-type: none"> ❖ If necessary, wash off trucks leaving the site. ❖ Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least two feet of freeboard in accordance with the requirements of California Vehicle Code (CVC) Section 23114. 	<p>Site Inspection.</p> <p>Site Inspection.</p>	<p>During Construction.</p> <p>During Construction.</p>	<p>Inspector.</p> <p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p>	<p>Date: _____ By: _____</p> <p>Date: _____ By: _____</p> <p>Date: _____</p>
Biological Resources				
<p>EMWD will abide by the following:</p> <ul style="list-style-type: none"> ❖ If ground-disturbing activities or removal of any trees, shrubs, or any other potential nesting habitat are scheduled within the avian nesting season (nesting season generally extends from February 1 - August 31), a pre-construction clearance survey for nesting birds should be conducted within 10 days prior to any ground disturbing activities. The biologist conducting the clearance survey should document a negative survey with a brief letter report indicating that no impacts to active bird nests will occur. If an active avian nest is discovered during the 10-day preconstruction clearance survey, construction activities should stay outside of a 300-foot buffer around the active nest. For raptor species, this buffer is expanded to 500-feet. ❖ A pre-construction burrowing owl clearance survey shall be conducted in accordance with the 2012 CDFW Staff Report on Burrowing Owl Mitigation to ensure their continued absence. Two pre-construction clearance surveys shall be conducted 14-30 days prior to ground disturbing activities and 24 hours prior to ground disturbing activities. These clearance surveys shall be conducted by a qualified biologist to document the continued absence of the burrowing owls from the project sites. 	<p>Site Inspection.</p> <p>Site Inspection.</p>	<p>Prior to Construction.</p> <p>Prior to Construction.</p>	<p>Project Manager.</p> <p>Project Manager.</p>	<p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p>
Cultural Resources				
<p>Although there were no archeological resources as defined in §15064.5 of the State CEQA Guidelines identified within the immediate project area, there is always a possibility that buried cultural resources that were not previously identified could be unearthed during excavation activities. Therefore, EMWD will include the following mitigation measures in its standard construction specifications:</p>				

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<ul style="list-style-type: none"> ❖ If inadvertent discoveries of cultural resources are encountered at any time during construction, these materials and their context shall be avoided until a qualified archeologist and a representative from the Soboba Band of Luiseño Indians (Tribe) – the closest Tribe to the Project – and consulted with EMWD and the Project Archeologist and the Soboba Tribe regarding appropriate avoidance and mitigation measures for the newly discovered resources. Project personnel shall not collect or retain cultural resources. Prehistoric resources include, but are not limited to: chert or obsidian flakes; projectile points; mortars and pestles; dark, friable soil containing shell and bone; dietary debris; heat-affected rock; or human burials. Historic resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits (glass, metal, wood, ceramics), often found in old wells and privies. Pursuant to California Public Resources Code §21083.2(b) avoidance is the preferred method of preservation for archeological resources. 	Site Inspection.	During Construction.	Field Engineering Inspector.	By: _____ Date: _____
<ul style="list-style-type: none"> ❖ All sacred sites, should they be encountered within the project sites, shall be avoided and preserved as the preferred mitigation, if feasible. 	Site Inspection.	During Construction.	Field Engineering Inspector.	By: _____ Date: _____
<ul style="list-style-type: none"> ❖ In addition, EMWD will relinquish ownership of all cultural resources, including scared items, burial goods and all archeological artifacts that are found on the project site to the Soboba Tribe for proper treatment and disposition. 	Project Records.	During Construction.	Project Manager.	By: _____ Date: _____
<ul style="list-style-type: none"> ❖ If paleontological resources (e.g., fossils) are encountered at any time during construction of the project, construction personnel shall avoid altering these materials and their context until a qualified paleontologist has evaluated the situation. Project personnel shall not collect or retain paleontological resources. 	Site Inspection.	During Construction.	Field Engineering Inspector.	By: _____ Date: _____
<ul style="list-style-type: none"> ❖ Consistent with State CEQA Guidelines §15064.5, subdivision (e), in the event of an accidental discovery or recognition of any human remains, the County Coroner shall be notified and construction activities at the affected work site shall be halted. If the remains are found to be Native American, the Native American Heritage Commission shall be notified within 24 hours. The NAHC must immediately notify the Most Likely Descendant(s) under Public Resources Code §5097.98 and the descendants must make recommendations or preference for treatment within 48 hours of 	Site Inspection.	During Construction.	Field Engineering Inspector.	By: _____ Date: _____

*Mitigation Monitoring and Reporting Program Checklist
Moreno Valley Groundwater Development Program
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<p>being granted access to the site. Guidelines of the Native American Heritage Commission shall be adhered to in the treatment and disposition of the remains in accordance with the provisions of Health and Safety Code §7050.5 and Public Resources Code §5097.98.</p> <ul style="list-style-type: none"> ❖ All sacred sites, should they be encountered within the project sites, shall be avoided and preserved as the preferred mitigation, if feasible. 	Site Inspection.	Site Inspection.	Field Engineering Inspector. By: _____ Date: _____	
Hazards and Hazardous Materials				
To reduce potentially hazardous conditions and minimize the impacts from the handling of potentially hazardous materials, EMWD will include the following in its construction contract documents:				
<ul style="list-style-type: none"> ❖ The contractor(s) shall prepare a <i>Health and Safety Plan</i> in compliance with the requirements of Chapter 6.95, Division 20 of the Health and Safety Code (§§ 25500—25532). The plan shall include measures to be taken in the event of an accidental spill. ❖ The contractor(s) shall enforce strict on-site handling rules to keep construction and maintenance materials out of receiving waters and storm drains. In addition, the contractor(s) shall store all reserve fuel supplies only within the confines of a designated construction staging area, refuel equipment only within the designated construction staging area, and regularly inspect all construction equipment for leaks. ❖ The construction staging area shall be designed to contain contaminants such as oil, grease, and fuel products so that they do not drain towards receiving waters or storm drain inlets. 	Site Inspection. Site Inspection. Site Inspection.	Site Inspection. Site Inspection. Site Inspection.	Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector. Field Engineering Inspector.	By: _____ Date: _____ By: _____ Date: _____ By: _____ Date: _____
Hydrology and Water Quality				
EMWD will require contractors to implement a program of best management practices (BMP's) and best available technologies to reduce potential impacts to water quality that may result from construction activities. To reduce or eliminate construction-related water quality impacts before the onset of construction activities, EMWD should obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Construction Permit. Construction activities shall comply with the conditions of this permit that include preparation of a stormwater pollution prevention plan, implementation of BMP's, and monitoring to insure impacts to water				

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<p>quality are minimized. As part of this process, multiple BMP's should be implemented to provide effective erosion and sediment control. These BMP's should be selected to achieve maximum sediment removal and represent the best available technology that is economically achievable. BMP's to be implemented as part of this mitigation measure should include, but not be limited to, the following:</p> <ul style="list-style-type: none"> ❖ Temporary erosion control measures such as silt fences, staked straw bales/wattles, silt/sediment basins and traps, check dams, geofabric, sandbag dikes, and temporary revegetation or other groundcover shall be employed for disturbed areas. ❖ Storm drain inlets on the site and in downstream offsite areas shall be protected from sediment with the use of BMP's acceptable to EMWD, local jurisdictions and the California Regional Water Quality Control Board, Santa Ana Region. ❖ Dirt and debris shall be swept from paved streets in the construction zone on a regular basis, particularly before predicted rainfall events. ❖ No disturbed surfaces shall be left without erosion control measures in place between October 15 and April 15. EMWD shall file a Notice of Intent with the Regional Board and require the preparation of a pollution prevention plan prior to commencement of construction. EMWD shall routinely inspect the construction site to verify that the BMP's specified in the pollution prevention plan are properly installed and maintained. EMWD shall immediately notify the contractor if there were a noncompliance issue and require immediate compliance. 	<p>Site Inspection.</p> <p>Site Inspection.</p> <p>Site Inspection.</p> <p>Site Inspection.</p>	<p>Site Inspection.</p> <p>Site Inspection.</p> <p>Site Inspection.</p> <p>During Construction.</p>	<p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p> <p>Field Engineering Inspector.</p>	<p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p>
Noise				
<p>EMWD will include the following in its standard construction specifications:</p> <ul style="list-style-type: none"> ❖ All equipment used during construction shall be muffled and maintained in good operating condition. All internal combustion engines shall be fitted with well-maintained mufflers in accordance with manufacturers' recommendations. 	<p>Site Inspection.</p>	<p>During Construction.</p>	<p>Field Engineering Inspector.</p>	<p>By: _____ Date: _____</p>
Transportation/Traffic				

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<p>EMWD will include the following in its contract documents for this project:</p> <ul style="list-style-type: none"> ❖ Encroachment permits for all work within public rights-of-way shall be obtained from the City of Moreno Valley's Department of Public Works prior to commencement of any construction. EMWD shall comply with all traffic control requirements contained in the encroachment permit. ❖ Working hours and lane closures shall be as specified by the City of Moreno Valley. ❖ Public rights-of-way shall be restored to a condition mutually agreed to between EMWD and the City of Moreno Valley's Department of Public Works prior to construction. 	<p>Project Records.</p> <p>Project Records.</p> <p>Site Inspection.</p>	<p>Prior to Construction.</p> <p>Prior to Construction.</p> <p>During Construction.</p>	<p>Project Manager.</p> <p>Project Manager.</p> <p>Field Engineering Inspector.</p>	<p>By: _____ Date: _____</p> <p>By: _____ Date: _____</p> <p>By: _____ Date: _____ By: _____ Date: _____</p>