

APPENDIX D

Mitigation Monitoring and Reporting Program (MMRP)

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Mitigation Monitoring and Reporting Program

Cactus Avenue Corridor Groundwater Wells Project

Prepared by:

Eastern Municipal Water District
2270 Trumble Road
Perris, CA 92572-8300

With Assistance From:



9665 Chesapeake Drive, Suite 320
San Diego, CA 92123
858.875.7400

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1. MITIGATION MONITORING AND REPORTING PROGRAM

The California Environmental Quality Act (CEQA) requires that when a lead agency adopts a Mitigated Negative Declaration (MND), it shall prepare a monitoring or reporting program for all required mitigation measures (CEQA Guidelines Section 15097). This Mitigation Monitoring and Reporting Program (MMRP) for the Cactus Avenue Corridor Groundwater Wells Project (proposed Project) incorporates all mitigation measures adopted for the proposed Project and has been prepared in accordance with Public Resources Code Section 21081.6 and State CEQA Guidelines Section 15097. Eastern Municipal Water District (EMWD) and its contractors are required to implement the adopted mitigation measures in accordance with the MND in order to avoid or substantially reduce impacts of the proposed Project to less than significant levels. This MMRP will be used by EMWD to ensure that the mitigation measures identified in the MND are implemented.

1.1 Program Administration

The MMRP shall be administered by EMWD and mitigation measures shall be incorporated into design and construction contracts, as appropriate, to ensure full implementation. The MMRP shall be maintained by the designated EMWD Project Manager and be available for inspection upon request at EMWD's offices.

1.2 Project Description

EMWD proposes the Cactus Avenue Corridor Groundwater Wells Project to construct and operate groundwater extraction wells, raw water pipelines, a water treatment and blending facility, and treated water pipelines in the Perris North Groundwater Basin. Up to four wells would be constructed generally north of March Air Reserve Base (MARB), and up to two wells would be constructed generally east of MARB. The treated water from the extraction wells would be blended with imported water from Metropolitan Water District of Southern California to drinking water standards, disinfected, and then delivered to a transmission pipeline in the potable water system that would convey the water to other parts of the EMWD's service area.

The proposed Project facilities would be located at various sites and within the public right-of-way throughout the City of Moreno Valley. The Project area is generally bound by Cottonwood Avenue to the north, Graham Street and MARB to the west, Iris Avenue to the south, and Camino Flores to the east.

2. MITIGATION MONITORING REQUIREMENTS

2.1 Mitigation Measures

A mitigation monitoring and reporting checklist has been developed for the proposed Project and is intended for use by EMWD, as lead agency and designated monitoring entity. The checklist, presented as **Table MMRP-1**, summarizes the mitigation requirements for the proposed Project, anticipated timing, and responsible parties for ensuring implementation of each mitigation measure. These mitigation measures are presented in the same order, using the naming conventions and categories, as in the IS/MND.

Table MMRP-1: Mitigation Monitoring and Reporting Checklist

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Aesthetics						
<p>Impact 3.1c – In non-urbanized areas, potential to substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the Project is in an urbanized area, potential to conflict with applicable zoning and other regulations governing scenic quality.</p>	<p>Mitigation Measure (MM) AES-1: Design of Aboveground Structures To minimize visual impacts on public views, permanent, aboveground structures (treatment/blending facility, extraction well houses) shall be designed to blend into the existing visual character of their surroundings, including building and wall height, color, and exterior architectural treatments.</p>	EMWD, Construction Contractor	EMWD Construction Administrator	1. Confirm measure is included in contract documents 2. Confirm that mitigation measure is incorporated into design specifications 3. Verify that approved visual measures are implemented during construction 4. Retain a copy of design specifications in project file	1. Contracting 2. Design 3. Construction 4. Post-construction	1. _____ 2. _____ 3. _____ 4. _____
<p>Impact 3.1d – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views.</p>	<p>MM AES-2: Low Illumination Nighttime Construction Lighting All nighttime construction lighting shall be of the lowest illumination necessary for Project construction, attached to motion sensors, and shielded and directed downward to avoid light spillage onto neighboring properties.</p>	EMWD, Construction Contractor	EMWD Construction Administrator	1. Confirm measure is included in contract documents 2. Confirm that mitigation measure is incorporated into design specifications 3. Monitor construction activities to verify that measures are implemented during construction 4. Retain a copy of design specifications and construction monitoring report in project file	1. Contracting 2. Design 3. Construction 4. Post-construction	1. _____ 2. _____ 3. _____ 4. _____
<p>Impact 3.1d – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views.</p>	<p>MM AES-3: Lighting Fixtures All permanent nighttime lighting and fixtures shall comply with Riverside County Ordinance No. 655 for Zone B of the Mount Palomar Nighttime Lighting Policy Area (see attached).</p>	EMWD, Construction Contractor	EMWD Construction Administrator	1. Confirm measure is included in contract documents 2. Confirm that mitigation measure is incorporated into design specifications 3. Verify that permanent lighting features are installed consistent with measure, as applicable 4. Retain a copy of design specifications and	1. Contracting 2. Design 3. Construction 4. Post-construction	1. _____ 2. _____ 3. _____ 4. _____

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				construction monitoring report in project file		
Air Quality						
<p>Impact 3.3b – Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard.</p> <p>Impact 3.3c – Potential to expose sensitive receptors to substantial pollutant concentrations.</p>	<p>MM AIR-1: Tier 4 Engines EMWD shall use off-road equipment that meets the United States Environmental Protection Agency (EPA) certified Tier 4 final engines or engines that are certified to meet or exceed the emission ratings for EPA Tier 4 final or interim engines such that average daily nitrogen oxide (NO_x) emissions are lower than SCAQMD Regional Mass Emissions Thresholds of 100 pounds per day. One way for this to be accomplished would be for 55 percent of the construction equipment and vehicles, with the exception of drill rigs, used for the Project to be equipped with Tier 4 final engines.</p>	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm mitigation measure is incorporated into contract documents</p> <p>2. Monitor construction activities to verify that measures are implemented during construction</p> <p>3. Retain construction monitoring report in project file</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
Biological Resources						
<p>Impact 3.4a – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.</p> <p>Impact 3.4f – Potential to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.</p>	<p>MM BIO-1: Burrowing Owl Preconstruction Clearance Survey A qualified wildlife biologist shall conduct a Pre-construction survey of the impact areas to confirm presence/absence of burrowing owl individuals no more than 30 days prior to construction. The survey methodology will be consistent with the methods outlined in the CDFW <i>Staff Report on Burrowing Owl Mitigation</i> (2012). If no active breeding or wintering owls are identified, no further action is required.</p> <p>If burrowing owls are detected onsite, the following actions shall be implemented in accordance with the CDFW <i>Staff Report on Burrowing Owl Mitigation</i> (2012):</p> <ul style="list-style-type: none"> A qualified wildlife biologist shall be onsite during initial ground-disturbing activities in potential burrowing owl habitat. No ground-disturbing activities shall be permitted within a buffer no less than 656 feet from an active burrow, depending on the level of disturbance, unless otherwise authorized by CDFW. Occupied burrows will not be disturbed during the nesting season (February 1 to August 31), unless a qualified biologist verifies through noninvasive methods that either: (1) the birds have not begun egg-laying and incubation; or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. During the nonbreeding (winter) season (September 1 to January 31), ground-disturbing work can proceed near active burrows as long as the work occurs no closer than 165 feet from the burrow, depending on the level of disturbance, and the site is not directly affected by the project activity. A smaller buffer may be established in consultation with CDFW. If active winter burrows are found that would be directly affected 	EMWD, Qualified Biologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that contract documents include mitigation measure</p> <p>2. Retain a qualified biologist for pre-construction survey</p> <p>3. Confirm pre-construction survey conducted no more than 30 days prior to construction by qualified biologists consistent with CDFW Staff Report on Burrowing Owl Mitigation methods</p> <p>4. If pre-construction survey is positive for burrowing owls, implement CDFW <i>Staff Report on Burrowing Owl Mitigation</i> actions listed in the mitigation measure</p> <p>5. Retain copies of all surveys and reports in the project file</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p> <p>5. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>

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	<p>by ground-disturbing activities, owls can be excluded from winter burrows according to recommendations made in the <i>Staff Report on Burrowing Owl Mitigation (2012)</i>.</p> <ul style="list-style-type: none"> • Burrowing owls shall not be excluded from burrows unless or until a Burrowing Owl Exclusion Plan is developed based on the recommendations made in the <i>Staff Report on Burrowing Owl Mitigation (2012)</i>. The plan shall include, at a minimum: <ul style="list-style-type: none"> ○ Confirmation by site surveillance that the burrow(s) is empty of burrowing owls and other species ○ Type of scope to be used and appropriate timing of scoping ○ Occupancy factors to look for and what shall guide determination of vacancy and excavation timing ○ Methods for burrow excavation ○ Removal of other potential owl burrow surrogates or refugia onsite ○ Methods for photographic documentation of the excavation and closure of the burrow ○ Monitoring of the site to evaluate success and, if needed, to implement remedial measures to prevent subsequent owl use to avoid take ○ Methods for assuring the impacted site shall continually be made inhospitable to burrowing owls and fossorial mammals • Compensatory mitigation for lost breeding and/or wintering habitat shall be implemented onsite or offsite through implementation of a Mitigation Land Management Plan based on the <i>Staff Report on Burrowing Owl Mitigation (CDFW 2012)</i> guidance. The plan shall include the following components, at a minimum: <ul style="list-style-type: none"> ○ Temporarily disturbed habitat on the project site shall be restored, if feasible, to pre-project conditions, including decompacting soil and revegetating; ○ Permanent impacts to nesting, occupied and satellite burrows and/or burrowing owl habitat shall be mitigated such that the habitat acreage, number of burrows and burrowing owl impacted are replaced based on a site-specific analysis which includes conservation of similar vegetation communities comparable to or better than that 					

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	<p>of the impact area, and with sufficiently large acreage, and presence of fossorial mammals;</p> <ul style="list-style-type: none"> ○ Mitigation land acreage shall not exceed the size of the Project site; ○ Permanently protect mitigation land through a conservation easement deeded to a nonprofit conservation organization or public agency with a conservation mission. If the project is located within the service area of a CDFW approved burrowing owl conservation bank, the project operator may purchase available burrowing owl conservation bank credits. ○ Fund the maintenance and management of mitigation land through the establishment of a long-term funding mechanism such as an endowment. ○ Mitigation lands shall be on, adjacent or proximate to the impact site where possible and where habitat is sufficient to support burrowing owls present. 					
<p>Impact 3.4a – Potential to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.</p>	<p>MM BIO-2: Preconstruction Nesting Bird Survey If Project construction occurs during avian nesting season (February to September) then a survey for active nests must be conducted by a qualified biologist one to two weeks prior to construction activities. If active nests are identified and present onsite, clearing and construction within 50-250 feet of the nest, depending on the species (50 feet for common urban-adapted native birds and up to 250 feet for raptors), shall be postponed until the nest is vacated, the juveniles have fledged, and there is no evidence of a second attempt at nesting. The qualified biologist shall establish limits to the construction in order to avoid a nest site with flagging and stakes or construction fencing. If construction must occur within the buffer, it shall be conducted at the discretion of a qualified biological monitor to ensure indirect impacts to the nesting birds are avoided.</p>	EMWD, Qualified Biologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<ol style="list-style-type: none"> 1. Confirm that contract documents include mitigation measure 2. Confirm construction schedule occurs outside of February 1 – September 30 3. If construction occurs between February 1 and September 30, retain a qualified biologist for pre-construction survey and confirm pre-construction nesting bird survey is completed within one to two weeks prior to construction 4. If a nest is identified in the pre-construction survey, verify avoidance buffer is established and that ground-disturbing activities do not occur in buffer until biologist determines that breeding/nesting is completed 	<ol style="list-style-type: none"> 1. Contracting 2. Pre-construction 3. Pre-construction 4. Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____

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				5. Retain copies of all surveys and reports in project file	5. Post-construction	5. _____
Cultural Resources						
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>	<p>MM CUL-1: Cultural Resources Treatment and Monitoring Agreement At least 30 days prior to the start of any ground-disturbing activities, EMWD shall contact the Consulting Tribe(s) to develop Cultural Resource Treatment Monitoring Agreement(s) ("Agreement"). The Agreement(s) shall address the treatment of archaeological resources inadvertently discovered on the Project site; Project grading; ground disturbance and development scheduling; the designation, responsibilities, and participation of tribal monitor(s) during grading, excavation, and ground disturbing activities; and compensation for the tribal monitors, including overtime, weekend rates, and mileage reimbursements.</p>	EMWD, Consulting Tribe(s)	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm preparation of and completion of Cultural Resource Treatment Monitoring Agreement(s)</p> <p>2. Retain copies of all agreements in project file</p>	<p>1. Pre-construction</p> <p>2. Post-construction</p>	<p>1. _____</p> <p>2. _____</p>
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance</p>	<p>MM CUL-2: Develop a Cultural Resources Monitoring Plan Prior to any grading activities, a Cultural Resources Monitoring Plan shall be prepared by a qualified archaeologist in consultation with the Consulting Tribe(s). The plan shall identify</p>	EMWD, Qualified Archaeologist, Tribal Monitor(s), Consulting Tribe(s)	EMWD Construction Administrator, in	1. Confirm that contract documents include mitigation measure	1. Contracting	1. _____

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<p>of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>	<p>the location and timing of cultural resources monitoring. The plan shall also contain an allowance that the qualified archaeologist, based on observations of subsurface soil stratigraphy or other factors during initial grading, and in consultation with the Native American monitor and EMWD, may reduce or discontinue monitoring as warranted if the archaeologist determines that the possibility of encountering archaeological deposits is low. The plan shall outline the appropriate measures to be followed in the event of unanticipated discovery of cultural resources during Project implementation (including during the survey to occur following vegetation removal and monitoring during ground-disturbing activities). The plan shall identify avoidance as the preferred manner of mitigating impacts to cultural resources. The plan shall establish the criteria utilized to evaluate the historic significance (per CEQA) of the discoveries, methods of avoidance consistent with CEQA Guidelines Section 15126.4(b)(3), as well as identify the appropriate data recovery methods and procedures to mitigate the effect of the Project if avoidance of significant historical or unique archaeological resources is determined to be infeasible. The plan shall also include reporting of monitoring results within a timely manner, disposition of artifacts, curation of data, and dissemination of reports to local and state repositories, libraries, and interested professionals. A qualified archaeologist and Consulting Tribe(s) tribal monitor shall attend a pre-grade meeting with EMWD staff, the contractor, and appropriate subcontractors to discuss the monitoring program, including protocols to be followed in the event that cultural material is encountered.</p>		<p>consultation with EMWD CEQA/ Environmental Compliance Team</p>	<p>2. Retain a qualified archaeologist and confirm preparation of a Cultural Resources Monitoring Plan prior to any grading activities</p> <p>3. Confirm pre-grade meeting between a qualified archaeologist and Consulting Tribe(s) monitor and EMWD staff, the contractor, and appropriate subcontractors was held</p> <p>4. Retain copy of the Cultural Resources Monitoring Plan in project file</p>	<p>2. Pre-construction</p> <p>3. Pre-Construction</p> <p>4. Post-construction</p>	<p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p>	<p>MM CUL-3: Tribal Monitoring Agreements A qualified archaeological monitor and a Consulting Tribe(s) monitor shall be present for ground-disturbing activities associated with the Project, and both the Project archaeologist and Tribal Monitor(s) will make a determination as to the areas with a potential for encountering cultural material. At least seven business days prior to Project grading, EMWD shall contact the tribal monitors to notify the Tribe of grading/excavation and the monitoring program/schedule, and to coordinate with the Tribe on the monitoring work schedule. Both the archaeologist and the tribal monitor shall have the authority to stop and redirect grading activities in order to evaluate the nature and significance</p>	<p>EMWD, Qualified Archaeologist, Tribal Monitor(s), Consulting Tribe(s)</p>	<p>EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team</p>	<p>1. Confirm measure is included in contract documents</p> <p>2. Contact the tribal monitors to coordinate the monitoring work schedule at least seven business days prior to grading</p> <p>3. Confirm qualified archaeological monitor and a</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

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<p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>	<p>of any archaeological resources discovered within the Project limits. Such evaluation shall include culturally appropriate temporary and permanent treatment pursuant to the Cultural Resources Treatment and Monitoring Agreement, which may include avoidance of cultural resources, in-place preservation, data recovery, and/or reburial so the resources are not subject to further disturbance in perpetuity. Any reburial shall occur at a location predetermined between EMWD and the Consulting Tribe(s), details of which shall be addressed in the Cultural Resources Treatment and Monitoring Agreement in MM CUL-1. Treatment may also include curation of the cultural resources at a tribal curation facility, as determined in discussion among EMWD, the Project archaeologist, and the tribal representatives and addressed in the Cultural Resources Treatment and Monitoring Agreement referenced in MM CUL-1.</p>			<p>Consulting Tribe(s) monitor are present during initial ground disturbing activities</p> <p>4. Retain copies of all agreements in project file</p>	<p>4. Post-construction</p>	<p>4. _____</p>
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the</p>	<p>MM CUL-4: Evaluation of Discovered Artifacts All artifacts discovered at the development site shall be inventoried and analyzed by the Project archaeologist and tribal monitor(s). A monitoring report will be prepared, detailing the methods and results of the monitoring program, as well as the disposition of any cultural material encountered. If no cultural material is encountered, a brief letter report will be sufficient to document monitoring activities.</p>	<p>Qualified Archaeologist, Tribal Monitor(s)</p>	<p>EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team</p>	<p>1. Confirm mitigation measure is included in contract documents</p> <p>2. If artifacts are discovered, confirm they are inventoried and analyzed by Project archaeologist and tribal monitor(s), and a monitoring report is prepared.</p> <p>3. If no cultural artifacts are encountered, confirm a brief letter report is prepared.</p> <p>4. Retain copies of any monitoring reports in project file</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Post-construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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<p>landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>				5. Provide copy of monitoring report to Rincon Band of Luiseño Indians.	5. Post-construction	5. _____
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined</p>	<p>MM CUL-5: Disposition of Inadvertent Discoveries In the event that Native American cultural resources are recovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries with the tribe. EMWD shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as part of the required mitigation for impacts to cultural resources, and adhere to the following:</p> <ol style="list-style-type: none"> 1. Preservation-in-place is the preferred option; preservation-in-place means avoiding the resources and leaving them in the place where they were found with no development affecting the integrity of the resource. 2. If preservation-in-place is not feasible, on-site reburial of the discovered items as detailed in the Monitoring Plan required pursuant to MM CUL-2 is the next preferable treatment measure. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments. 3. In the event that on-site reburial is not feasible, EMWD will enter into a curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 Code of Federal Regulations 800 Part 79 and therefore would be curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be 	EMWD, Qualified Archaeologist, Tribal Monitor(s)	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<ol style="list-style-type: none"> 1. Confirm mitigation measure is included in contract documents 2. If Native American cultural resources are unearthed, verify appropriate treatment procedures are implemented as outlined in the mitigation measure 3. If curation agreement is prepared, retain curation agreement and all artifact disposition reports in project file 	<ol style="list-style-type: none"> 1. Contracting 2. Construction 3. Post-construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____

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<p>by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>	<p>transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the fees necessary for permanent curation.</p>					
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to §15064.5?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the</p>	<p>MM CUL-6: Non-Disclosure of Reburial Locations It is understood by all parties that unless otherwise required by law, the site of any reburial of culturally sensitive resources shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, pursuant to the specific exemption set forth in California Government Code 6254(r), parties, and Lead Agencies will be asked to withhold public disclosure information related to such reburial.</p>	<p>EMWD, Construction Contractor, Qualified Archaeologist, Tribal Monitor(s), Consulting Tribe(s), Riverside County Coroner</p>	<p>EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team</p>	<p>1. Confirm mitigation measure is included in contract documents</p>	<p>1. Contracting</p>	<p>1. _____</p>

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
significance of the resource to a California Native American tribe.						
<p>Impact 3.5c – Potential to disturb any human remains, including those interred outside of dedicated cemeteries?</p> <p>Impact 3.18a – Potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>	<p>MM CUL-7: Human Remains If Native American human remains are encountered, Public Resources Code Section 5097.98 and California Health and Safety Code Section 7050.5 will be followed. If human remains are encountered, no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to California Public Resources Code Section 5097.98(b), remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the Riverside County Coroner determines the remains to be Native American, the coroner shall contact the California Native American Heritage Commission (NAHC) within 24 hours. Subsequently, the NAHC shall identify the person or persons it believes to be the "most likely descendant." The most likely descendant (MLD) shall then make recommendations and engage in consultations concerning the treatment of the remains as provided in Public Resources Code Section 5097.98</p>	EMWD, Riverside County Coroner, NAHC	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<ol style="list-style-type: none"> 1. Confirm mitigation measure is included in contract documents 2. If human remains are found, coordinate with Riverside County Coroner 3. If human remains are found, verify adequate consultation with NAHC or MLD has occurred, if applicable, and that proper treatment and reburial has occurred, as applicable 4. Document and retain records regarding discovery of human remains in project file 	<ol style="list-style-type: none"> 1. Contracting 2. Construction 3. Construction 4. Post-construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____
Geology and Soils						
<p>Impact 3.7f – Potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.</p>	<p>MM GEO-1: Unanticipated Fossil Discovery In the event of an unanticipated fossil discovery made during the construction of the Project, in accordance with Society of Vertebrate Paleontology (2010) guidelines, it is the responsibility of any worker who observes the fossil within the Project site to stop work within the fossil's immediate vicinity and notify a qualified professional paleontologist. The paleontologist shall evaluate the discovery, determine the fossil's significance, and decide if additional mitigation or treatment is needed. Work within the area of the fossil discovery will resume once the find is documented and authorization to resume construction work is given. Any significant paleontological resources discovered</p>	EMWD, Constructor Contractor, Qualified Professional Paleontologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<ol style="list-style-type: none"> 1. Confirm that mitigation measure is included in contract documents 2. If a fossil discovery is made, retain and consult with a qualified professional paleontologist, and confirm that fossil discoveries are recorded and treated in accordance with direction provided by paleontologist 	<ol style="list-style-type: none"> 1. Contracting 2. Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____

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	during construction monitoring will be prepared, identified, analyzed, and permanently curated in an approved regional museum repository.			3. Retain construction monitoring report in project file	3. Post-construction	3. _____
Hazards and Hazardous Materials						
<p>Impact 3.9b – Potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.</p> <p>Impact 3.9c – Potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.</p>	<p>MM HAZ-1: Hazardous Materials Management and Spill Prevention and Control Plan (HMMSPCP) Before construction begins, EMWD shall prepare a Hazardous Materials Management Spill Prevention and Control Plan that includes a project-specific contingency plan for hazardous materials and water operations. The Plan will be applicable to construction activities and will establish policies and procedures according to applicable codes and regulations, including but not limited to the California Building and Fire Codes, and federal and Occupational Safety and Health Administration (OSHA) regulations. The Plan will include, but is not limited to the following:</p> <ul style="list-style-type: none"> • A discussion of hazardous materials management, including delineation of hazardous material storage areas, access and egress routes, waterways, emergency assembly areas, and temporary hazardous waste storage areas; • Notification and documentation of procedures; and • Spill control and countermeasures, including employee spill prevention/response training. 	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that contract documents include preparation of a Hazardous Materials Management Spill Prevention and Control Plan</p> <p>2. Confirm contractor has prepared HMMSPCP and is available on-site.</p> <p>3. Retain a copy of the HMMSPCP in the project file</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
Noise						
<p>Impact 3.13a – Potential generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.</p>	<p>MM NOI-1: Construction Noise Reduction Measures EMWD shall require its contractor to implement the following actions relative to construction noise:</p> <ul style="list-style-type: none"> • EMWD shall conduct construction activities between 7:00 a.m. and 7:00 p.m. on weekdays and 8:00 a.m. and 4:00 p.m. on Saturdays, in accordance with the City of Moreno Valley Municipal Code, Sections 8.14.040 and 11.80.030, with the exception of specific well drilling and testing activities, which require 24-hour continuous work. • Prior to construction, EMWD in coordination with the construction contractor, shall provide written notification, to all properties within 100 feet, as determined by the maximum 90 a-weighted decibel (dBA) noise contour, of the proposed Project facilities informing occupants of the type and duration of construction activities. Notification materials shall identify a method to contact EMWD's program manager with noise concerns. Prior to construction commencement, the EMWD program manager shall establish a noise complaint process to allow for resolution of noise problems. This process shall be clearly described in the notifications. • Stationary noise-generating equipment shall be located as far from sensitive receptors as possible. Such equipment shall also be oriented to minimize noise that would be directed toward sensitive receptors. Whenever possible, 	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that noise reduction measures are included in the contract documents</p> <p>2. Confirm that written notification has occurred to residents within 100-feet of the proposed Project prior to the start of construction</p> <p>3. Confirm EMWD program manager has established a noise complaint process</p> <p>4. Confirm that construction occurs during approved hours and that all noise reduction measures are implemented during construction</p> <p>5. Retain construction monitoring documentation in project file</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p> <p>5. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>

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	<p>other non-noise generating equipment (e.g., water tanks, roll-off dumpsters) shall be positioned between the noise source and sensitive receptors.</p> <ul style="list-style-type: none"> Equipment and staging areas shall be located as far from sensitive receptors as possible. At the staging location, equipment and materials shall be kept as far from adjacent sensitive receptors as possible. Construction vehicles and equipment shall be maintained in the best possible working order; operated by an experienced, trained operator; and shall utilize the best available noise control techniques (including mufflers, use of intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds). Unnecessary idling of internal combustion engines shall be prohibited. In practice, this would require turning off equipment if it would idle for five or more minutes. Electrically powered equipment shall be used instead of pneumatic or internal-combustion powered equipment, where feasible. The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only. 					
<p>Impact 3.13a – Potential generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.</p>	<p>MM NOI-2: Noise Barriers EMWD shall require its contractor to install temporary construction noise barriers prior to the start of well construction activities that would occur outside the hours specified by the City of Moreno Valley Municipal Code Sections 8.14.040 and 11.80.030. These barriers shall block the line of sight between the equipment and the noise-sensitive receptor(s) and shall provide a minimum of 25 dBA of noise attenuation. Due to the height of the drill rig, the noise barrier shall be at least 24 feet tall. The construction noise barrier shall be constructed of a material with a minimum weight of one pound per square foot with no gaps or perforations. It shall remain in place until conclusion of the nighttime construction activities. The Project plans and specifications shall include documentation from a noise consultant verifying the inclusion of an appropriate noise barrier.</p>	EMWD, Construction Contractor, Noise Consultant	EMWD Construction Administrator	<ol style="list-style-type: none"> Confirm mitigation measure is included in contract documents Confirm plans and specifications include an appropriate noise barrier confirmed by a noise consultant Confirm sound wall barriers are installed between construction equipment and noise-sensitive receptor(s) that meet the specifications approved in the mitigation measure Conduct periodic monitoring of mitigation commitments during construction to ensure noise barrier is providing 25 dBA of noise attenuation 	<ol style="list-style-type: none"> Contracting Design Construction of wells that occurs outside of hours specified in municipal code Construction of wells that occurs outside of hours specified in municipal code 	<ol style="list-style-type: none"> _____ _____ _____ _____

Impact Statement	Mitigation Measure	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
				5. Retain construction monitoring documentation in project file	5. Post-construction	5. _____
Transportation						
<p>Impact 3.9f – Potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan</p> <p>Impact 3.17a – Potential to conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.</p> <p>Impact 3.17c – Potential to substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).</p> <p>Impact 3.17d – Potential to result in inadequate emergency access.</p> <p>Impact 3.20a – Potential to substantially impair an adopted emergency response plan or emergency evacuation plan.</p>	<p>MM TRA-1: Traffic Control Plan Prior to Project construction, EMWD shall require its construction contractor to implement a Traffic Control Plan, to be approved by the EMWD construction inspector and the City of Moreno Valley. The Traffic Control Plan shall:</p> <ul style="list-style-type: none"> Identify staging locations to be used during construction Identify safe ingress and egress points from staging areas Identify potential road closures Establish haul routes for construction-related vehicle traffic Identify alternative safe routes to maintain pedestrian and bicyclist safety during construction <p>EMWD's project manager shall coordinate with emergency services (police, fire, and others) to notify these entities regarding construction schedule, Project alignment and siting, and potential delays due to construction. EMWD shall identify roadways and access points for emergency services and minimize disruptions to or closures of these locations.</p> <p>The Traffic Control Plan shall include provisions for traffic control measures including barricades, warning signs, cones, lights, and flag persons, to allow safe circulation of vehicle, bicycle, pedestrian, and emergency response traffic. The Traffic Control Plan shall be reviewed and approved by EMWD's project manager and the construction inspector prior to Project construction. EMWD's construction inspector shall also provide the construction schedule and Traffic Control Plan to the City of Moreno Valley for review to ensure that construction of the proposed Project does not conflict with other construction projects that may be occurring simultaneously in the Project vicinity.</p>	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that contract documents include requirement for a Traffic Control Plan</p> <p>2. Confirm that a Traffic Control Plan was developed in accordance with the mitigation measure, and approved by City of Moreno Valley</p> <p>3. Confirm coordination of construction schedules has occurred with emergency services</p> <p>4. Confirm traffic control measures identified in the Traffic Control Plan are implemented during construction</p> <p>5. Retain copy of Traffic Control Plan in project file</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p> <p>5. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>