



Subsequent Mitigation Monitoring and Reporting Program

Perris North Groundwater Monitoring Project

Prepared by:

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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 Subsequent Mitigation Monitoring and Reporting Program (MMRP) for the Perris North Groundwater Monitoring Project (proposed Project) evaluated in the 2022 Revised MND and the 2023 Subsequent MND, which together provide the CEQA coverage for the 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 2022 Revised MND and 2023 Subsequent MND for the proposed Project 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 2022 Revised MND and 2023 Subsequent 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 BACKGROUND

Eastern Municipal Water District (EMWD) is proposing to install monitoring wells in the Perris North Groundwater Sub-basin. Monitoring wells would be installed as "well clusters" which each have up to four boreholes. As a result of project changes, a series of environmental evaluations have been completed. In 2019 and 2020, EMWD evaluated the potential environmental impacts from constructing and operating a series of 10 monitoring wells in the sub-basin. A Mitigated Negative Declaration (MND) was adopted by the EMWD Board of Directors (Board) on June 17, 2020 (SCH#2020040220).

Following Board approval, EMWD changed the location and number of proposed monitoring wells. The location of the wells was revised to be out of the roadway right-of-way. Accordingly, EMWD prepared a Revised MND ("2022 Revised MND") that evaluated environmental impacts associated with the new locations. The 2022 Revised MND evaluated impacts associated with construction and operation of up to 64 wells in 16 well "clusters" on private parcels. Each well cluster in the 2022 Revised MND would consist of up to four monitoring wells (with individual boreholes for each monitoring well). To provide locational flexibility of the well clusters, 21 locations were evaluated, including five additional sites presented as "Optional" sites. The 2022 Revised MND was adopted by the EMWD Board on February 16, 2022.

Following Board approval of the 2022 Revised MND, EMWD determined that, based on the project schedule and some uncertainties in securing well sites within the various land

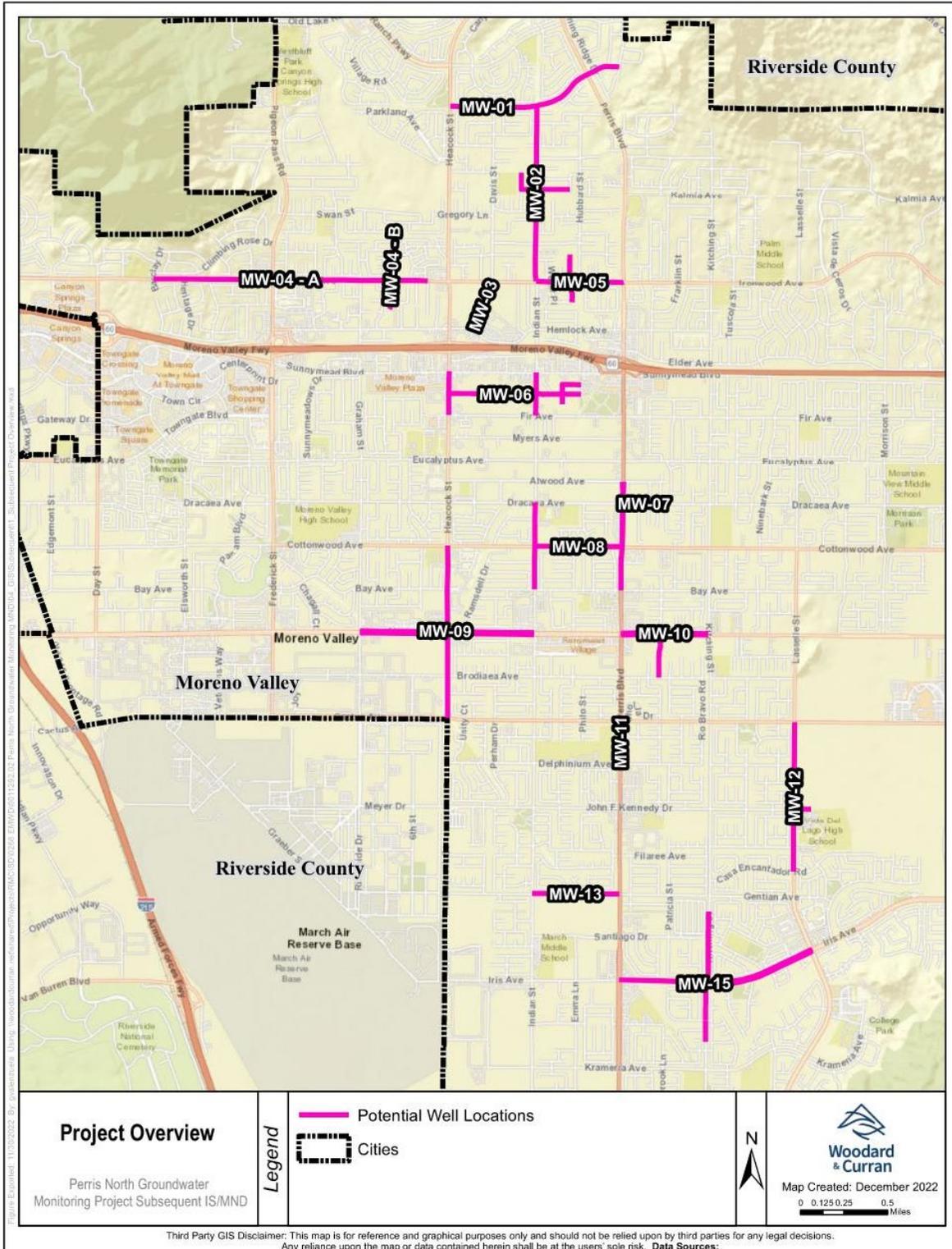
parcels, some wells may need to be constructed in the roadway right-of-way. EMWD met with representatives from the City of Moreno Valley to solicit input on well locations. Based on City staff input, well locations were further refined. A Subsequent IS/MND was identified as the appropriate CEQA documentation to address the proposed changes.

Because the 2022 Revised MND was incorporated by reference into the 2023 Subsequent MND, and both documents apply to the proposed Project, depending on whether wells are located within the parcels (2022 Revised MND) or roadway rights-of-way (2023 Subsequent MND), this Subsequent MMRP consolidates the MMRP from the 2022 Revised MND with the mitigation measures required in the Subsequent MND. Clarification has been provided to identify when a given mitigation measure would apply, consistent with the 2022 Revised MND and 2023 Subsequent MND.

1.3 PROJECT DESCRIPTION

The Perris North Groundwater Monitoring Project consists of development and operation of groundwater monitoring wells within the City of Moreno Valley and the City of Perris, in the western portion of Riverside County, California. The proposed Project includes construction and operation of up to 16 monitoring well clusters each with up to four wells, for a maximum of up to 64 individual wells. In addition to the 21 locations evaluated in the 2022 Revised MND, the Subsequent IS/MND adds well sites in the roadway right-of-way within the City of Moreno Valley. As such, a series of roadway rights-of-way, within which the well clusters would be constructed, are being evaluated. Wells would be drilled to a maximum depth of 60 feet to 420 feet below ground surface and located to monitor water quality and depth in areas of concern for perchlorate, volatile organic compounds, and nitrate, as well as a well outside the areas of concern to monitor potential movement of these constituents of concern. Once operational, well data would be collected remotely on a monthly basis, and site visits made quarterly to conduct maintenance and collect samples. Data will be used to help improve EMWD's understanding of the basin groundwater quality and help in making informed decisions on management of the Perris North Sub-basin.

The proposed Project overlies the Perris North Sub-Basin of the San Jacinto Groundwater Basin, which is also referred to as the Perris North Groundwater Management Zone. The proposed project is generally bounded on the west by Interstate 215, on the north by Sunnymead Ranch Parkway, on the south by Harley Knox Boulevard, and on the east by Lasselle Street (see map attached). Wells evaluated in the Subsequent IS/MND would be located within City of Moreno Valley roadway rights-of-way.



2. MITIGATION MONITORING REQUIREMENTS

2.1 MITIGATION MEASURES

A mitigation monitoring and reporting checklist has been developed for the proposed Project evaluated in the Subsequent IS/MND and is intended for use by EMWD, as lead agency and designated monitoring entity. The checklist is presented in **Table MMRP-1**, which summarizes the mitigation requirements for the proposed Project. The table includes mitigation requirements identified for both the 2022 Revised MND and the Subsequent IS/MND. The applicable location for each mitigation requirement is indicated in the tables; mitigation requirements are identified as applicable to the parcel locations only (2022 Revised MND), right-of-way only (Subsequent IS/MND), or both. The table also includes 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 Subsequent IS/MND.

Table MMRP-1: Mitigation Monitoring and Reporting Checklist

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
Aesthetics							
<p>Impact 3.1d – Potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly</p>	<p>MM AES-1: Low Illumination Nighttime Security Lighting All nighttime security lighting shall be of the lowest illumination necessary for Project security, attached to motion sensors, and shielded and directed downward to avoid light spillage onto neighboring properties.</p>	Parcels and right-of-way	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that measure is included in contract documents.</p> <p>2. Confirm that mitigation measure is incorporated into design specifications.</p> <p>3. Monitor construction to verify that measures are implemented during nighttime activities and staging.</p> <p>4. Retain a copy of design specifications and construction monitoring report in project file</p>	<p>1. Contracting</p> <p>2. Design</p> <p>3. Construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</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>Impact 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate</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 14 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 200 meters (656 feet) from an active burrow, depending on the level of disturbance, unless the qualified biologist determines a reduced buffer would not adversely affect the burrowing owl. 	Parcels only	EMWD, Qualified Biologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Retain a qualified biologist for pre-construction survey.</p> <p>3. Confirm pre-construction survey conducted no more than 14 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</i></p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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important examples of the major periods of California history or prehistory.	<ul style="list-style-type: none"> • Occupied burrows should not be disturbed during the nesting season (February 1 to August 31). • 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 50 meters (165 feet) from the burrow, depending on whether the level of disturbance is low, and if the active burrow is not directly affected by the project activity. A smaller or larger buffer may be established by the qualified biologist following monitoring and assessments of the project's effects on the burrowing owls, following monitoring and assessments of the project's effects on the burrowing owls. If active winter burrows are found that would be directly affected by ground-disturbing activities, owls can be excluded from winter burrows according to recommendations made in the Staff Report on Burrowing Owl Mitigation (2012). Additionally, if burrowing owls are found on-site, a qualified biologist should prepare and submit a passive relocation program in accordance with Appendix E (i.e., Example Components for Burrowing Owl Artificial Burrow and Exclusion Plans) of the CDFW's <i>Staff Report on Burrowing Owl Mitigation</i> (2012) for CDFW review and approval prior to the commencement of disturbance activities on-site. • Burrowing owls shall not be excluded from burrows until a Burrowing Owl Exclusion Plan is developed based on the recommendations made in Appendix E of the CDFW <i>Staff Report on Burrowing Owl Mitigation</i> (2012). The Burrowing Owl Exclusion Plan would be submitted to CDFW for review and approval prior to the commencement of disturbance activities on-site. 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 				<p><i>Owl Mitigation</i> actions listed in the mitigation measure.</p> <p>5. Retain copies of all surveys and reports in the project file.</p>	5. Post-construction	5. _____

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	<ul style="list-style-type: none"> ○ Methods for assuring the impacted site shall continually be made inhospitable to burrowing owls and fossorial mammals until construction is complete • Prior to passive relocation, compensatory mitigation at a ratio of 1:1 for lost breeding and/or wintering habitat shall be implemented onsite or offsite including permanent conservation and management of burrowing owl habitat through the recordation of a conservation easement, funding of a non-wasting endowment, and implementation of a Mitigation Land Management Plan based on the <i>Staff Report on Burrowing Owl Mitigation</i> (CDFW 2012) guidance. Mitigation lands would be identified through coordination with CDFW and on, adjacent, or proximate to the impact site where possible and where habitat is suitable to support BUOW. If required, compensatory mitigation should be completed prior to passive relocation of owls and completion of construction. • When the qualified biologist determines that burrowing owl are no longer occupying the project site and passive relocation is complete, construction activities may begin. A final letter would be prepared by the qualified biologist documenting the results of the passive relocation, and submitted to CDFW. <p>Mitigation lands should be on, adjacent, or proximate to the impact site where possible and where habitat is sufficient to support burrowing owls present.</p>						
<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>Impact 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a</p>	<p>MM BIO-2: Preconstruction Nesting Bird Survey. If Project construction occurs during avian nesting season (generally February 1 to August 31, but variable depending on seasonal and annual climatic conditions), as determined by a qualified biologist, then a survey for active nests shall be conducted by a qualified biologist within three days prior to construction activities to determine the presence/absence, location, and status of any active nests on-site and within 100 feet of the site. The biologist shall provide a written memorandum of results and findings prior to issuance of grading or other construction permits.</p> <p>If nesting birds are found on site, a construction buffer of appropriate size (as determined by the qualified biologist) should be implemented around the active nests and demarcated with fencing or flagging. If ground/burrow nesting birds are identified, demarcation materials that will not provide perching habitat for predatory bird species should be used. Nests shall be monitored at a minimum of once per week by the qualified biologist until it has been</p>	Parcels only	EMWD, Qualified Biologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Confirm construction schedule occurs outside of February 1 – August 31.</p> <p>3. If construction occurs between February 1 and August 31, retain a qualified biologist for pre-construction survey and confirm pre-construction nesting bird survey is completed within three</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>fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.</p>	<p>determined that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is complete, and all the young have fledged and are capable of surviving independently of the nest. If project activities must occur within the buffer, they shall be conducted at a distance that will prevent project-related disturbances, as determined by the qualified biologist.</p> <p>If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.</p>				<p>days prior to construction.</p> <p>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.</p> <p>5. Retain copies of all surveys and reports in project file.</p>	<p>4. Construction</p> <p>5. Post-construction</p>	<p>4. _____</p> <p>5. _____</p> <p>6. _____</p>
<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 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.</p>	<p>MM BIO-3: Preconstruction Nesting Bird Survey. If the monitoring wells are located within the roadway right-of-way, and if Project construction occurs during avian nesting season (generally February 1 to August 31, but variable depending on seasonal and annual climatic conditions), as determined by a qualified biologist, then a survey for active nests shall be conducted by a qualified biologist within three days prior to construction activities to determine the presence/absence, location, and status of any active nests on-site and within 100 feet of the site. The biologist shall provide a written memorandum of results and findings prior to issuance of grading or other construction permits.</p> <p>If nesting birds are found within 100 feet of the project site, a construction buffer of appropriate size (as determined by the qualified biologist) should be implemented around the active nests and demarcated with fencing or flagging. If ground/burrow nesting birds are identified, demarcation materials that will not provide perching habitat for predatory bird species should be used. Nests shall be monitored at a minimum of once per week by the qualified biologist until it</p>	Right-of-way only	EMWD, Qualified Biologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Confirm construction schedule occurs outside of February 1 – August 31.</p> <p>3. If construction occurs between February 1 and August 31, retain a qualified biologist for pre-construction survey and confirm pre-construction nesting bird survey is completed within three</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

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	<p>has been determined that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is complete, and all the young have fledged and are capable of surviving independently of the nest. If project activities must occur within the buffer, they shall be conducted at a distance that will prevent project-related disturbances, as determined by the qualified biologist.</p> <p>If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.</p>				<p>days prior to construction.</p> <p>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.</p> <p>5. Retain copies of all surveys and reports in project file.</p>	<p>4. Construction</p> <p>5. Post-construction</p>	<p>4. _____</p> <p>5. _____</p>
Cultural Resources							
<p>Impact 3.5a – Potential to cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5.</p> <p>Impact 3.5b – Potential to cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 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: i) 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 ii) 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</p>	<p>MM CUL-1: Unanticipated Discovery of Cultural Resources If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) shall be contacted immediately to evaluate the find. If the discovery proves to be significant under NHPA and/or CEQA, additional work such as data recovery excavation and Native American consultation may be warranted to mitigate any significant impacts.</p>	Parcels and right-of-way	EMWD, Constructor Contractor, Qualified Professional Archaeologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Hold training meeting with field personnel to demonstrate how to recognize cultural resource that may be discovered during ground disturbing activities.</p> <p>3. If cultural resources are encountered, confirm archaeological evaluation of the find is completed, and any warranted additional work or consultation is conducted.</p> <p>4. Retain copies of all agreements in project file.</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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<p>Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p> <p>Impact 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.</p>							
<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: i) 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 ii) 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>Impact 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a</p>	<p>MM CUL-2: Human Remains If human remains are encountered, Public Resources Code Section 5097.98 and California Health and Safety Code Section 7050.5 will be followed and the County Coroner shall be notified immediately. 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 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" (MLD). The MLD shall complete inspection of the site within 48 hours of being granted access and make recommendations and engage in consultations concerning the treatment of the remains as provided in Public Resources Code Section 5097.98.</p>	Parcels and right-of-way	EMWD, Riverside County Coroner, NAHC	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm mitigation measure is included in contract documents.</p> <p>2. If human remains are found, coordinate with Riverside County Coroner.</p> <p>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.</p> <p>4. Document and retain records regarding discovery of human remains in project file</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.							
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>Impact 3.21a – Potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.</p>	<p>MM GEO-1: Unanticipated Fossil Discovery In the event an unanticipated fossil discovery is made during the course of project development, then in accordance with the Society of Vertebrate Paleontology (2010) guidelines, it is the responsibility of any worker who observes fossils within the project site to stop work in the immediate vicinity of the find and notify a qualified professional paleontologist who shall be retained to evaluate the discovery, determine its significance and if additional mitigation or treatment is warranted. Work in the area of the discovery will resume once the find is properly documented and authorization is given to resume construction work. Any significant paleontological resources found during construction monitoring will be prepared, identified, analyzed, and permanently curated in an approved regional museum repository.</p>	Parcels and right-of-way	EMWD, Constructor Contractor, Qualified Professional Paleontologist	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. If fossils are encountered, confirm paleontological evaluation of the find is completed, and any additional mitigation or curation is conducted.</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>
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 emission or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM HAZ-1: Hazardous Materials Management and Spill Prevention and Control Plan 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 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 access and egress routes, waterways, emergency assembly areas, and hazardous material disposal; • Notification and documentation of procedures; and • Spill control and countermeasures, including employee spill prevention/response training. 	Parcels and right-of-way	EMWD, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that contract documents include preparation of a Hazardous Materials Management Spill Prevention and Control Plan (HMMSPCP).</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>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.9d – Potential to be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM HAZ-2a: Environmental Site Assessment Prior to EMWD purchase or lease of proposed MW-3 and MW-16 parcels, EMWD shall retain a qualified environmental professional to conduct an environmental site assessment of each parcel to evaluate the presence and extent of contamination at the parcels, in conformance with state and local guidelines and regulations. If the results of the environmental site assessments indicate the presence of contaminated soils or groundwater, or the potential to impact existing soil and/or groundwater remediation efforts within the parcel, EMWD shall evaluate if there are appropriate locations within the parcel or identify alternative parcels to safely construct and operate the monitoring wells.</p>	Parcels only (MW-3 and MW-16 only)	EMWD, Constructor Contractor, Qualified Environmental Professional	EMWD Engineering Services and EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that an environmental site assessment is completed and appropriate locations for monitoring wells are identified on MW-3 and MW-16 parcels, of if applicable based on the environmental site assessment findings, other appropriate parcels are identified for the wells.</p> <p>2. If applicable, confirm recommendations from environmental site assessment are included in contract documents as appropriate.</p> <p>3. Confirm that construction activities conform with the findings of the environmental site assessment for MW-3 and MW-16.</p>	<p>1. Prior to purchase or lease of parcels</p> <p>2. Contracting</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>Impact 3.9d – Potential to be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>Mitigation Measure HAZ-2b: Prepare Project Specific Health and Safety Plan. EMWD or its contractor shall prepare a project-specific Health and Safety Plan (HASP) in accordance with 29 U.S. Code of Federal Regulations 1910 to protect construction workers and the public during all excavation, grading and construction services. The HASP shall include, but not be limited to, the following information:</p> <ul style="list-style-type: none"> • A summary of all potential risks to construction workers and maximum exposure limits for all known and reasonably foreseeable site chemicals; • Specified personal protective equipment and decontamination procedures, if needed Safety procedures to be followed in the event suspected hazardous materials are encountered; • Emergency procedures, including route to the nearest hospital; and • The identification of a site health and safety officer and responsibilities of the site health and safety officer. 	Parcels and right-of-way	EMWD, Constructor Contractor	EMWD Construction Administrator	<p>1. Confirm that contract documents include preparation of a project-specific Health and Safety Plan (HASP) in accordance with 29 CFR 1910.</p> <p>2. Confirm contractor has prepared a HASP and that it is available on-site.</p> <p>3. Retain a copy of the HASP 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>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.9d – Potential to be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM HAZ-2c: Disposal of Hazardous Materials. EMWD or its contractor shall develop a materials disposal plan specifying how excavated material and groundwater dewatering would be removed, handled, transported, and disposed of in a safe, appropriate, and lawful manner. The plan shall identify the disposal method for soil and the approved disposal site. The plan shall specify how groundwater from dewatering would be treated and/or disposed.</p>	Parcels and right-of-way	EMWD, Constructor Contractor	EMWD Construction Administrator	<p>1. Confirm that contract documents include preparation of a materials disposal plan.</p> <p>2. Confirm contractor has prepared a materials disposal plan and that is available on site.</p> <p>3. Verify materials have been disposed of in accordance with the materials disposal plan.</p> <p>4. Retain a copy of materials disposal plan in the project file.</p>	<p>1. Contracting</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
<p>Impact 3.9d – Potential to be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment.</p> <p>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM HAZ-2d: Environmental Site Assessment Prior to EMWD final well location determinations for MW-04 and MW-15 in the right-of-way, EMWD shall retain a qualified environmental professional to conduct an environmental site assessment of each right-of-way to evaluate the presence and extent of contamination at the parcels, in conformance with state and local guidelines and regulations. If the results of the environmental site assessments indicate the presence of contaminated soils or groundwater, or the potential to impact existing soil and/or groundwater remediation efforts within the right of way, EMWD shall evaluate if there are appropriate locations within the right-of-way or identify an alternative right of way to safely construct and operate the monitoring wells.</p>	Right-of-way only (MW-04 and MW-15 only)	EMWD, Constructor Contractor, Qualified Environmental Professional	EMWD Construction Administrator, in consultation with EMWD CEQA/ Environmental Compliance Team	<p>1. Confirm that contract documents include an environmental site assessment of the proposed MW-04 and MW-15 locations, or if applicable based on the environmental site assessment findings, other appropriate locations are identified for the wells.</p> <p>2. Confirm that construction activities conform with the findings of the environmental site assessment for MW-04 and MW-15.</p>	<p>1. Contracting</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>
Noise							
<p>Impact 3.13a – Potential to generate 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>Impact 3.21c –</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"> For well sites located in the City of Moreno Valley, EMWD shall conduct construction activities between 7:00 a.m. and 7:00 p.m. on weekdays and 8:00 a.m. to 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 activities which may require construction on Sundays. 	Parcels only	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</p>	<p>1. Contracting</p> <p>2. Pre-construction</p>	<p>1. _____</p> <p>2. _____</p>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<ul style="list-style-type: none"> For well sites located in the City of Perris, EMWD shall conduct construction activities between 7:00 a.m. and 7:00 p.m. on weekdays and Saturdays, in accordance with the City of Perris Municipal Code, Section 7.34.060, with the exception of specific well drilling activities which may require construction on Sundays. Prior to construction, EMWD in coordination with the construction contractor, shall provide written notification, to all properties within 100 feet of the proposed Project facilities informing occupants of the type and duration of construction activities. The notification shall also include information concerning the noise levels that may be experienced during evening hours and that this is a temporary circumstance. 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, other non-noise generating equipment (e.g., water tanks, roll-off dumpsters) shall be positioned between the noise source and sensitive receptors. 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. <p>The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.</p>				<p>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>3. Pre-construction</p> <p>4. Construction</p> <p>5. Post-construction</p>	<p>3. _____</p> <p>4. _____</p> <p>5. _____</p>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
<p>Impact 3.13a – Potential to generate 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>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM NOI-2: Noise Barriers If wells are located such that well construction noise would exceed 80 dBA (the City of Perris noise limit in residential areas) at the property line (less than 159 feet from the property line for mud rotary drilling, or 114 feet for sonic drilling), EMWD shall require its contractor to install temporary construction noise barriers prior to the start of well construction activities. These barriers shall block the line of sight between the noise-generating components of the drilling equipment and the noise-sensitive receptor(s) and shall provide up to 25 dBA of noise attenuation, such that it can achieve sufficient attenuation to reduce construction noise at the property line to less than 80 dBA. 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 well drilling activities. The Project plans and specifications shall include documentation from a noise consultant verifying the inclusion of an appropriate noise barrier.</p>	Parcels only	EMWD, Noise Consultant, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Confirm plans and specifications include an appropriate noise barrier confirmed by a noise consultant.</p> <p>3. Confirm sound wall barriers are installed between construction equipment and noise-sensitive receptor(s) that meet the specifications approved in the mitigation measure.</p> <p>4. Conduct periodic monitoring of mitigation commitments during construction to ensure noise barrier is providing required level of noise attenuation.</p> <p>5. Retain construction monitoring documentation in project file.</p>	<p>1. Contracting</p> <p>2. Design</p> <p>3. Construction of wells that occurs outside of hours specified in municipal code</p> <p>4. Construction of wells that occurs outside of hours specified in municipal code</p> <p>5. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>
<p>Impact 3.13a – Potential to generate 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>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM NOI-3: 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. to 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 activities which may require construction on Sundays. Prior to construction, EMWD in coordination with the construction contractor, shall provide written notification, to all properties within 100 feet of the proposed Project facilities informing occupants of the type and duration of construction activities. The notification shall also include information concerning the noise levels that may be experienced during 	Right-of-way only	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>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>evening hours and that this is a temporary circumstance. 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.</p> <ul style="list-style-type: none"> 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, other non-noise generating equipment (e.g., water tanks, roll-off dumpsters) shall be positioned between the noise source and sensitive receptors. 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>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>4. Construction</p> <p>5. Post-construction</p>	<p>4. _____</p> <p>5. _____</p>
<p>Impact 3.13a – Potential to generate 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>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>MM NOI-4: Noise Barriers If wells in the paved right-of-way are located such that well construction noise would exceed 90 dBA (the City of Moreno Valley noise limit in residential areas) at the property line (less than 51 feet from the property line for mud rotary drilling, or 37 feet for sonic drilling), EMWD shall require its contractor to install temporary construction noise barriers prior to the start of well construction activities. These barriers shall block the line of sight between the noise-generating components of the drilling equipment and the noise-sensitive receptor(s) and shall provide up to 25 dBA of noise attenuation, such that it can achieve sufficient attenuation to</p>	Right-of-way only	EMWD, Noise Consultant, Construction Contractor	EMWD Construction Administrator	<p>1. Confirm that mitigation measure is included in contract documents.</p> <p>2. Confirm plans and specifications include an appropriate noise barrier confirmed by a noise consultant.</p>	<p>1. Contracting</p> <p>2. Design</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

Impact Statement	Mitigation Measure	Applicable Location	Party Responsible for Implementation and Reporting	Review and Approval by:	Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
	<p>reduce construction noise at the property line to less than 90 dBA. 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 well drilling activities. The Project plans and specifications shall include documentation from a noise consultant verifying the inclusion of an appropriate noise barrier.</p>				<p>3. Confirm sound wall barriers are installed between construction equipment and noise-sensitive receptor(s) that meet the specifications approved in the mitigation measure.</p> <p>4. Conduct periodic monitoring of mitigation commitments during construction to ensure noise barrier is providing required level of noise attenuation.</p> <p>5. Retain construction monitoring documentation in project file.</p>	<p>4. Construction</p> <p>5. Post-construction</p>	<p>4. _____</p> <p>5. _____</p>
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 3.15a – Potential to result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services: i) Fire protection? ii) Police protection?</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>MM TRA-1: Traffic Control Plan Prior to Project construction, EMWD shall require its construction contractor to implement a Traffic Control and Detour Plan that complies with the California Manual on Uniform Traffic Control Devices, to be approved by the EMWD construction inspector. The Traffic Control Plan shall, at minimum:</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; Include a Detour Plan that identifies alternative safe routes to maintain pedestrian and bicyclist safety during construction; and Include provisions for traffic control measures such as barricades, warning signs, cones, lights, and flag persons, to allow safe circulation of vehicle, bicycle, pedestrian, and emergency response traffic. <p>EMWD's project manager shall coordinate with emergency services (police, fire, and others) to notify these entities regarding construction schedule, Project siting, and potential delays due to construction. EMWD's project manager shall also coordinate with emergency services prior to Project</p>	<p>Parcels and right-of-way</p>	<p>EMWD, Construction Contractor</p>	<p>EMWD Construction Administrator</p>	<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 traffic control measures identified in the Traffic Control Plan are implemented during construction.</p> <p>4. Retain copy of Traffic Control Plan in project file.</p>	<p>1. Contracting</p> <p>2. Pre-construction</p> <p>3. Construction</p> <p>4. Post-construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>

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<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 – 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>Impact 3.21c – Potential to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.</p>	<p>operation activities (i.e., monitoring and inspection visits) that would require lane closures. EMWD shall identify roadways and access points for emergency services and minimize disruptions to or closures of these locations. The provisions outlined in the Traffic Control Plan shall provide for traffic control measures during Project construction as well as during project operation. 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. The City of Moreno Valley will be given the opportunity to ensure the Traffic Control and Detour Plan is consistent with the Moreno Valley Traffic Control Plan Guidelines & Checklist.</p>						