

Jefferson Avenue Interconnection Project

Mitigation Monitoring and Reporting Program

prepared by

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Mitigation Monitoring and Reporting Program

This mitigation monitoring and reporting program has been prepared for Western Municipal Water District's (Western Water) Jefferson Avenue Interconnection project. The California Environmental Quality Act (CEQA) requires that a reporting or monitoring program be adopted for the conditions of project approval that are necessary to mitigate or avoid significant effects on the environment (Public Resources Code Section 21081.6). This mitigation monitoring and reporting program is intended to track and ensure compliance with adopted mitigation measures during the project implementation phase. For each mitigation measure recommended in the Final Initial Study - Mitigated Negative Declaration for the project, specifications are made herein that identify the action required and the monitoring that must occur. For all mitigation measures, Western Water is the agency responsible for implementation and oversight.

Mitigation Measure	Action Required	Monitoring Timing	Monitoring Frequency	Compliance Verification		
				Initial	Date	Comments
Cultural Resources						
CUL-1 Cultural Resources Monitoring and Discovery Plan						
A qualified archaeologist who meets or exceeds the Secretary of the Interior's Professional Qualifications Standards for Archaeology (National Park Service 1983) shall develop a Cultural Resources Monitoring and Discovery Plan (CRMDP), prior to the commencement of project-related ground-disturbing activities. The Consulting Tribe shall be afforded the opportunity to review and comment on the CRMDP prior to its approval and implementation. Western Water shall review and approve the CRMDP, which shall be included as part of the construction plans and specifications and implemented by the construction contractor. The CRMDP shall be developed to address potential impacts to the portions of known cultural resources (e.g., P-33-001004, P-33-008757, P-33-011086, P-33-012709) located adjacent to the project site in the event of an archaeological find during construction. The CRMDP shall include the monitoring methods to be used during ground-disturbing activities, stop work protocols in the event of a discovery, detailed treatment methods and discovery protocols, and treatment methods for avoidance, relocation, and data recovery of any prehistoric site constituents of known cultural resources (e.g., P-33-001004, P-33-008757, P-33-011086, and P-33-012709), if necessary. The CRMDP shall also specify: ▪ Monitoring methods within resource boundaries ▪ Stop-work authority and procedures ▪ Protocol for recovery of artifacts, features, and soil samples ▪ The type of equipment and methods, both mechanical and hand, that shall be used to conduct excavations ▪ Types and level of analysis to be conducted on site constituents ▪ Final disposition of any artifacts or samples	1. Retain a qualified archaeologist to provide a Cultural Resources Monitoring and Discovery Plan (CRMDP) 2. Review the CRMDP for consistency with the requirements of MM CUL-1 3. Verify inclusion of CRMDP as part of the construction plans and specifications	1. Prior to the commencement of ground-disturbing activities 2. Prior to the commencement of ground-disturbing activities 3. Prior to the commencement of ground-disturbing activities	1. Once 2. Once 3. Once			

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CUL-2 Cultural Resources Sensitivity Meeting						
Prior to the commencement of project-related ground-disturbing activities, including, but not limited to, site clearing, grubbing, trenching, and excavation, and as-needed during project construction, the qualified archaeologist retained by Western Water, along with Tribal Monitors from Consulting Tribe, shall provide a Cultural Resources Sensitivity Meeting for the construction contractor, subcontractors, and construction workers participating in ground-disturbing activity for project development. At this meeting, the project archeologist and Tribal monitors shall describe the potential of exposing archaeological resources, types of cultural materials that may be encountered, and directions on the steps that shall be taken if such a find is encountered. This meeting may be held alongside other environmental training programs required prior to construction, such as a Worker Environmental Awareness Program or can be held during the preconstruction meeting scheduled for the project. A Cultural Resources Sensitivity Meeting acknowledgment form shall be signed by workers who attended and provided to Western Water to retain.	1. Review the meeting materials for consistency with the requirements of MM CUL-2 2. Require attendance of all contractors, subcontractors, and construction workers participating in ground-disturbing activity for the project at the meeting 3. Maintain a record of trained personnel	1. Prior to the commencement of project-related ground-disturbing activities 2. Prior to the commencement of project-related ground-disturbing activities 3. During construction	1. Once 2. Once 3. Once prior to the commencement of construction and periodically if new personnel are required			
CUL-3 Archaeological Monitoring						
Archaeological monitoring shall be performed during project excavation under the direction of a qualified archaeologist retained by Western Water. During monitoring, the monitor shall examine the work areas for the presence of prehistoric artifacts (e.g., chipped stone tools and production debris, stone milling tools, ceramics), historic-period debris (e.g., metal, glass, ceramics), and/or soil discoloration that might indicate the presence of a cultural midden. The archaeological monitor shall maintain a daily log documenting ground-disturbing activity, work locations, description and provenance of any archaeological discoveries (if any), and any necessary action items for monitoring. The archaeological monitor shall have the authority to halt and redirect work shall any archaeological resources be identified during monitoring. If archaeological resources are	1. Retain a qualified archaeologist to perform archaeological monitoring 2. Review monitoring results and maintain daily monitoring logs in project file	1. During project excavation 2. During project excavation	1. Once 2. Once			

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encountered during ground-disturbing activities, the procedures prescribed in Mitigation Measure CUL-5 shall be implemented. Archaeological monitoring may be reduced or terminated in consultation with Western Water, as warranted by conditions such as encountering bedrock, the presence of fill soil, or negative findings during initial ground disturbance. If archaeological monitoring is reduced to spot-checking, spot-checking shall occur when ground disturbance moves to a new location or when ground disturbance will extend to depths not previously excavated (unless those depths are within bedrock).						
CUL-4 Phase IV Report						
Prior to final inspection, the Qualified Archeologist shall prepare a Phase IV Cultural Resources Monitoring Report that shall comply with any relevant requirements outlined in the CRMDP prepared pursuant to Mitigation Measure CUL-1 and include evidence of the Cultural Resources Sensitivity Meeting held pursuant to Mitigation Measure CUL-2. Western Water shall review and approve the report. Once the report is approved by Western, one copy shall be submitted to the appropriate California Historical Resources Information System Information Center and one copy shall be submitted to the Consulting Tribe.	1. Review and approve the Phase IV Cultural Resources Monitoring Report 2. Maintain copy of Phase IV Report in project files	1. Prior to final inspection	1. Once			
CUL-5 Unanticipated Discovery of Cultural Resources						
If during ground disturbance activities, unique cultural resources as defined in the CRMDP prepared pursuant to Mitigation Measure CUL-1 are discovered that were not assessed by the Cultural Resources Assessment conducted prior to project approval, the following procedures shall be implemented in accordance with the CRMDP. Tribal cultural resources are excluded from the definition of unique cultural resources as those resources are defined by the tribal values ascribed to them by their affiliated communities, as described in Public Resources Code Section 21074. Treatment of tribal cultural resources inadvertently discovered during ground-disturbing activities that meet the requirements	1. Verify inclusion of stop-work procedures for unique cultural resources as part of the construction plans and specifications 2. If the resource is determined to be potentially significant,	During ground-disturbing activities, as needed and if archaeological resources are identified	As needed			

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outlined in Public Resources Code Section 21074 shall be subject to the consultation process required by state law and Assembly Bill 52. ▪ In the event that archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 100 feet of the find shall halt and the qualified archaeologist retained pursuant to Mitigation Measure CUL-3, along with Tribal Monitor(s) retained pursuant to Mitigation Measure TCR-1, shall immediately evaluate the resource. ▪ If the resource is determined to be potentially significant, then the project archeologist, Consulting Tribe, and Western Water shall coordinate a meeting to discuss the significance of the find. ▪ At the meeting, the significance of the discoveries shall be discussed, and after consultation with the Tribal Representative(s) and the qualified archaeologist, a decision shall be made, with the concurrence by Western Water, as to the appropriate mitigation (documentation, recovery, avoidance, etc.) for the cultural resources, as defined in the CRMDP prepared pursuant to Mitigation Measure CUL-1. ▪ Treatment and avoidance of the newly discovered resource(s) shall be consistent with the CRMDP prepared pursuant to Mitigation Measure CUL-1 and the Tribal Monitoring Agreement(s) entered into with the Consulting Tribe pursuant to Mitigation Measure TCR-1. This may include avoidance of the cultural resources through project design, in-place preservation of cultural resources located in native soils, and/or re-burial within the immediate vicinity so they are not subject to further disturbance in perpetuity as identified in Mitigation Measure TCR-2. If avoidance is infeasible, then treatment shall be implemented pursuant to the CRMDP. Western Water shall make the final determination based on the provisions of the California Environmental Quality Act (CEQA) with respect to archaeological resources,	coordinate and attend a meeting between the project archaeologist, Consulting Tribe, and Western Water staff and save meeting minutes to project file 3. Determine the significance of the cultural resources and appropriate mitigation and retain documentation of decision in project files 4. Review and approve implementation of treatment and avoidance measures consistent with the CRMDP and Tribal Monitoring Agreement(s) 5. If applicable, review and approve implementation of a data recovery plan 6. Review evidence of compliance with MM CUL-5, retain associated					

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recommendations of the qualified archeologist, and the cultural and religious principles and practices of the Tribe. ▪ Further ground disturbance, including but not limited to grading and trenching, shall not resume within the area of the discovery until the appropriate mitigation has been implemented pursuant to the CRMDP. Work shall be allowed to continue outside of the 100-foot buffer area and shall be monitored by additional archaeological and Tribal monitors, if necessary. ▪ If the resource proves to be eligible for the California Register of Historic Resources and significant impacts to the resource cannot be avoided via project redesign, a qualified archaeologist in coordination with the Consulting Tribe(s) shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, pursuant to the requirements of the CEQA Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Western Water and the Consulting Tribe shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the California Historical Resources Information System pursuant to CEQA Guidelines Section 15126.4(b)(3)(C). ▪ Evidence of compliance with this mitigation measure, if a significant archaeological resource is found, shall be provided to Western Water, the appropriate California Historical Resources Information System Information Center, and the Consulting Tribe, and the Rincon Band of Luiseno Indians upon completion of the Phase IV report detailing the significance of the resource and treatment findings.	documentation in project files, and verify documentation is provided to the appropriate California Historical Resources Information System Information Center, and the Consulting Tribe, and the Rincon Band of Luiseno Indians					

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Geology and Soils						
GEO-1 Paleontological Resources Monitoring and Mitigation						
Prior to the start of ground-disturbing construction activities (e.g., trenching, excavation), Western Water shall retain a Qualified Professional Paleontologist who meets the following requirements, as defined by the Society of Vertebrate Paleontology (2010): ▪ A graduate degree in paleontology or geology and/or a publication record in peer-reviewed journals and demonstrated competence in field techniques, preparation, identification, curation, and reporting in the state or geologic province in which the project occurs. ▪ At least two full years professional experience as assistant to a Project Paleontologist with administration and project management experience supported by a list of projects and referral contacts. ▪ Proficiency in recognizing fossils in the field and determining their significance. ▪ Expertise in local geology, stratigraphy, and biostratigraphy. ▪ Experience collecting vertebrate fossils in the field. The Qualified Professional Paleontologist shall direct implementation of the following measures during project construction: ▪ **Paleontological Worker Environmental Awareness Program.** Prior to the start of construction and as-needed during construction, the Qualified Professional Paleontologist or their designee shall conduct a paleontological Worker Environmental Awareness Program training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction personnel. ▪ **Paleontological Monitoring.** Full-time paleontological monitoring shall be conducted during all project-related ground-disturbing activities, including, but not limited to,	1. Verify inclusion of stop-work procedures for discoveries of paleontological resources as part of the construction plans and specifications 2. Retain a Qualified Professional Paleontologist 3. Review the paleontological Worker Environmental Awareness Program for consistency with the requirements of MM GEO-1, require attendance of all construction personnel associated with the project at the training, and maintain record of trained personnel 4. Retain qualified Paleontological Resources Monitor to conduct paleontological monitoring	1. Prior to the start of ground-disturbing construction activities 2. Prior to the start of ground-disturbing construction activities 3. Prior to the start of ground-disturbing construction activities 4. During all project-related ground-disturbing activities within previously undisturbed sediments in areas mapped as the Pauba Formation and during ground-disturbing construction activities within previously undisturbed sediments exceeding three feet in depth in areas mapped as Quaternary alluvial channel deposits and Quaternary alluvial valley deposits 5. During the discovery of a fossil during ground-disturbing construction activities 6. Upon completion of during ground-disturbing construction activities (or laboratory preparation and curation of fossils, if necessary)	1. Once 2. Once 3. Once prior to commencement of ground-disturbing construction activities and periodically if new personnel are required 4. Once 5. As needed 6. Once			

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site clearing, grubbing, trenching, and excavation, within previously undisturbed sediments in areas mapped as the Pauba Formation and during ground-disturbing construction activities within previously undisturbed sediments exceeding three feet in depth in areas mapped as Quaternary alluvial channel deposits and Quaternary alluvial valley deposits. Paleontological monitoring shall be conducted by a paleontological monitor with experience with collection and salvage of paleontological resources and who meets the following minimum standards of the Society of Vertebrate Paleontology (2010) for a Paleontological Resources Monitor: □ BS or BA degree in geology or paleontology and one year experience monitoring in the state or geologic province of the specific project. An associate degree and/or demonstrated experience showing ability to recognize fossils in a biostratigraphic context and recover vertebrate fossils in the field may be substituted for a degree; or □ AS or AA in geology, paleontology, or biology and demonstrated two years of experience collecting and salvaging fossil materials in the state or geologic province of the specific project; or □ Enrollment in upper division classes pursuing a degree in the fields of geology or paleontology and two years of monitoring experience in the state or geologic province of the specific project. □ Monitors must demonstrate proficiency in recognizing various types of fossils, in collection methods, and in other paleontological field techniques. The Qualified Professional Paleontologist may recommend that monitoring be reduced in frequency or ceased entirely based on geologic observations. Such decisions shall be subject to review and approval by Western Water. ▪ **Unanticipated Fossil Discovery.** In the event of a fossil discovery by the paleontological monitor or construction personnel, all construction activity within 50 feet of the	5. If a fossil discovery occurs, review documentation of the significance evaluation and the completion of any necessary fossil salvage, preparation, and curation efforts and retain in project files 6. Review and approve Final Paleontological Mitigation Report and verify submittal to designated museum repository, if necessary					

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find shall cease, and the Qualified Professional Paleontologist shall evaluate the find. If the fossil(s) is (are) not scientifically significant, then construction activity may resume. If it is determined that the fossil(s) is (are) scientifically significant, the following shall be completed: □ **Fossil Salvage.** The paleontological monitor shall salvage (i.e., excavate and recover) the fossil to protect it from damage/destruction. Bulk matrix sampling may be necessary to recover small invertebrates or microvertebrates from within paleontologically-sensitive deposits. After the fossil(s) is (are) salvaged, construction activity may resume. □ **Fossil Preparation and Curation.** Fossils shall be identified to the lowest (i.e., most-specific) possible taxonomic level, prepared to a curation-ready condition, and curated in a scientific institution with a permanent paleontological collection along with all pertinent field notes, photos, data, and maps. Fossils of undetermined significance at the time of collection may also warrant curation at the discretion of the Qualified Professional Paleontologist. ▪ **Final Paleontological Mitigation Report.** Upon completion of ground-disturbing activities (or laboratory preparation and curation of fossils, if necessary), the Qualified Professional Paleontologist shall prepare a final report describing the results of the paleontological monitoring efforts. The report shall include a summary of the field and laboratory methods employed; an overview of project geology; and, if fossils were discovered, an analysis of the fossils, including physical description, taxonomic identification, and scientific significance. The report shall be submitted to the Western Water and, if fossil curation occurred, the designated scientific institution.						

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Transportation						
TRA-1 Traffic Control Plan						
Western Water shall require the construction contractor(s) to prepare and implement a traffic control plan that specifies how traffic will be safely and efficiently redirected during lane closures. All work shall comply with the California Department of Transportation's Work Area Traffic Control Handbook, which conforms to the standards and guidance of the California Manual on Uniform Traffic Control Devices. Traffic control measures for lane closures shall be included, and priority access shall be given to emergency vehicles. The traffic control plan shall also include requirements to notify local emergency response providers at least one week prior to the start of work when lane closures are required. The traffic control plan shall also include regional coordination with other construction activities that impact Jefferson Avenue and surrounding streets. All construction activities shall be closely coordinated with other construction projects that may be occurring at the time along the Jefferson Avenue corridor to ensure that traffic along Jefferson Avenue and surrounding streets remain at an acceptable level of operation during construction. The plan shall provide advance lane closure warning signage at key locations north and south of the project alignment along Jefferson Avenue to allow for efficient re-direction of traffic to Interstate 15/Interstate 215 in the event of an evacuation, including, but not limited to the intersection of Jefferson Avenue with Murrieta Hot Springs Road, Guava Street, Elm Street, French Valley Parkway/Cherry Street, and Winchester Road.	1. Verify inclusion of traffic control plan requirements as part of the construction plans and specifications 2. Review and approval traffic control plan for consistency with requirements of MM TRA-1 3. Verify notification of local emergency response providers 4. Field verify compliance with traffic control plan requirements and maintain record of compliance (e.g., verification logs) in project files	1. Prior to construction 2. Prior to construction 3. At least one week prior to lane closures 4. During construction	1. Once 2. Once 3. Once for each lane closure 4. Periodically			
Tribal Cultural Resources						
TCR-1 Native American Monitoring						
At least 30 days prior to the commencement of project-related ground-disturbing activities, including, but not limited to, site clearing, grubbing, trenching, and excavation, Western Water shall contact and secure a Tribal Monitoring agreement with the Consulting Tribe. The Tribal Monitoring agreement shall be consistent with the processes and	1. Contact and secure a Tribal Monitoring agreement with the Consulting Tribe	1. At least 30 days prior to commencement of ground-disturbing activities	1. Once 2. During ground-disturbing activities			

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procedures outlined in the CRMDP prepared under Mitigation Measure CUL-1. The Tribal Monitor(s) shall have the authority to temporarily divert, redirect, or halt ground-disturbing activities to allow recovery of cultural resources, in coordination with the archaeological monitor retained under Mitigation Measure CUL-3. Western Water shall notify the retained Tribal Monitor(s) of scheduled ground disturbance at least five business days in advance. Work may proceed if the retained Tribal Monitor(s) are unavailable at the time of ground disturbance. Native American monitoring may be reduced or terminated in consultation with Western Water, as warranted by conditions such as encountering bedrock, the presence of fill soil, or negative findings during initial ground disturbance.	2. Notify the retained Tribal Monitor(s) and retain documentation of whether Tribal Monitor(s) are present on site for scheduled ground-disturbing activities or deemed not available in project files	2. At least five business days in advance of scheduled ground-disturbing activities				
TCR-2 Final Disposition						
In the event that Tribal cultural resources are discovered during construction (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries in accordance with the CRMDP prepared under Mitigation Measure CUL-1, and may include one or more of the following treatments, in order of preference, that shall be employed with the tribes. Evidence of such shall be provided to Western Water in the Phase IV report prepared pursuant to Mitigation Measure CUL-4. 1. Preservation-in-place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place where they were found with no development affecting the integrity of the resources. 2. Reburial of the resources in the immediate vicinity of the project site. The measures for reburial may include the following in accordance with the CRMDP: a) measures and provisions to protect the future reburial area from any future impacts in perpetuity; b) reburial shall not occur until all legally required cataloging and basic recordation have been completed, with an exception that sacred items, burial goods, and Native American human remains are excluded; c) any reburial process shall be culturally appropriate; and d) listing of contents and	1. If tribal cultural resources are discovered during construction, document decisions made regarding treatment measures in conjunction with the tribes 2. Review Phase IV report for evidence of implementation of treatment measures for tribal cultural resources	During ground-disturbing activities, as needed and if tribal cultural resources are identified	As needed			

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location of the reburial shall be included in the confidential Phase IV report prepared pursuant to Mitigation Measure CUL-4. The Phase IV Report shall be filed with Western Water under a confidential cover and not subject to Public Records Requests. 3. If preservation in place or reburial is not feasible, then the resource(s) may be curated in a culturally appropriate manner as described in the CRMDP prepared pursuant to Mitigation Measure CUL-1 at a Riverside County curation facility that meets the California Office of Historic Preservation Guidelines for the Curation of Archaeological Resources, ensuring access and use pursuant to these guidelines. The collection and associated records shall be transferred, including title, and are to be accompanied by payment of the fees necessary for permanent curation. Evidence of curation in the form of a letter from the curation facility stating that subject archaeological materials have been received and that all fees have been paid, shall be provided by Western Water. No destructive or invasive testing on sacred items, burial goods, and Native American human remains shall be permitted. Results concerning finds of any inadvertent discoveries shall be included in the Phase IV report prepared pursuant to Mitigation Measure CUL-4.						