

Mitigation, Monitoring, and Reporting Program

West Valley Water District Oliver P. Roemer Water Filtration Facility Expansion Project

SCH No. 2021080135

Environmental Protections Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring/ Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
EPA 1 – Implement Geotechnical Design Recommendations As part of the Project design process, the WVWD would engage a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the Project. The WVWD will design the Project to comply with the site-specific recommendations made in the Project's geotechnical report. This will include design in accordance with the seismic and foundation design criteria, open-cut trenching, pipeline foundation material, trench backfill material, site preparation, and grading recommendations included in the report. The geotechnical recommendations will be incorporated into the final plans and specifications for the Project and will be implemented during construction.	Incorporate recommendations into final plans and specifications	WVWD	Verify all geotechnical study design recommendations are incorporated into final plans or specifications	
EPA 2 – Implement Air Quality Control Measures during Construction To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the following Basic Construction Measures will be included in construction contract specifications and required during implementation of the Project: – All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day; – All haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard; – All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited; – All vehicle speeds on unpaved areas shall be limited to 15 miles per hour; – All paving shall be completed as soon as possible after trenching work is finished; – Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;	Incorporate Basic Construction Measures into final plans and specifications	WVWD	Verify Basic Construction Measures are incorporated into final plans and specifications Check daily jobsite compliance as necessary	

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– All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation; – A publicly visible sign shall be posted with the telephone number and person to contact at the District regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.				
Biological Resources				
MM BIO-1 – Minimize Impacts to Nesting Bird Species There is potential for common avian species, protected under the MBTA and FGC, to nest in the Project Area. Potential Project impacts to special status birds during construction may include visual disturbance, habitat destruction, and noise disturbance. The following measures are proposed to avoid potential impacts. – Ground disturbance and vegetation clearing shall be conducted, if possible, during the fall and/or winter months and outside of the avian nesting season (generally March 1 – August 30 in southern California) to avoid any direct effects to protected birds. If ground disturbance cannot be confined to work outside of the nesting season, a qualified ornithologist shall conduct pre-construction surveys within the vicinity of the Project Area, to check for nesting activity of native birds and to evaluate the site for presence of raptors and special status bird species. The ornithologist shall conduct at minimum a one-day pre-construction survey within the 7-day period prior to vegetation removal and ground-disturbing activities. If ground disturbance or vegetation removal work lapses for seven days or longer during the breeding season, a qualified ornithologist shall conduct a supplemental avian pre-construction survey before Project work is reinitiated. – If active nests are detected within the construction footprint or up to 500 feet from construction activities, the ornithologist shall flag a buffer around each nest (assuming property access). Construction activities shall avoid nest sites until the ornithologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the construction (disturbance) footprint, but within 500 feet of the construction area, buffers would be implemented as needed (buffer size dependent on species). Buffer sizes for common species would be determined on a case-by-case basis in consultation with the CDFW and, if applicable, with USFWS. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site at the time of the survey and the noise and disturbance expected during the construction activity; (2) distance and amount of vegetation or	Incorporate protection and avoidance measures into final plans or specifications Conduct preconstruction nesting surveys if grading or vegetation removal occurs during nesting season Implement recommended protection measures as necessary	WVWD	Verify that protection and avoidance measures are in final plans or specifications Verify that surveys are conducted prior to grading or ground disturbing activities during nesting season Verify that disturbance buffers are implemented during construction, if required	

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other screening between the construction site and the nest; and (3) sensitivity of individual nesting species and behaviours of the nesting birds. – If active nests are detected during the survey, the qualified ornithologist shall monitor all nests at least once per week to determine whether birds are being disturbed. Activities that might, in the opinion of the qualified ornithologist, disturb nesting activities (e.g., excessive noise), shall be prohibited within the buffer zone until such a determination is made. If signs of disturbance or distress are observed, the qualified ornithologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased, placement of visual screens or sound dampening structures between the nest and construction activity, reducing speed limits, replacing and updating noisy equipment, queuing trucks to distribute idling noise, locating vehicle access points and loading and shipping facilities away from noise-sensitive receptors, reducing the number of noisy construction activities occurring simultaneously, and/or reorienting and/or relocating construction equipment to minimize noise at noise-sensitive receptors.				
Cultural Resources				
MM CR-01 – Minimize Impacts to Unknown Archaeological Resources Monitoring by a qualified archaeologist shall be conducted during initial ground-disturbing activities within native (i.e., undisturbed, non-fill) sediments. Monitoring shall be supervised by a qualified Principal Investigator who meets the U.S. Secretary of Interior professional qualification standards for archaeology. Initial monitoring shall be conducted to identify subsurface archaeological resources and to assess the potential of the sediments within the APE to contain buried resources. If the native subsurface sediments are assessed as having a low or no potential to contain buried resources, archaeological monitoring may be reduced or eliminated, as determined appropriate by the Principal Investigator in consultation with the WVWD. At the conclusion of all monitoring activities, a monitoring report shall be prepared by the Principal Investigator to document the methods and results of the monitoring, including detailed descriptions of all resources encountered and the measures taken to evaluate the resource(s) and to avoid or mitigate impacts to significant resources. The report shall be submitted to the WVWD and the SCCIC. In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during	Incorporate requirements into specifications If archaeological remains or potential tribal cultural resources are encountered, halt construction and follow procedures, as appropriate Coordinate with San Manual Band of Mission Indians if any cultural resources are encountered during construction	WVWD	Verify that protection and avoidance measures are in final plans or specifications During construction	

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this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or post-contact finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment. If significant pre-contact and/or post-contact cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.				
MM CR-2 – Protect Human Remains if Encountered In the event that any human remains are discovered within the project area, ground disturbing activities shall be suspended 100 feet around the resource(s) and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. The on-site lead/foreman shall then immediately notify SMBMI, the applicant/developer, and the WVWD. The WVWD and the applicant/developer shall then immediately contact the County Coroner regarding the discovery. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c). The NAHC-identified Most Likely Descendant (MLD), shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and funerary objects shall be treated and disposed of with appropriate dignity. The MLD, Lead Agency, and landowner agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes. The MLD shall complete its inspection and make recommendations within forty-eight (48) hours of the site visit, as required by California Public Resources Code § 5097.98. Reburial of human remains and/or funerary objects (those artifacts associated with any human remains or funerary rites) shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The MLD in consultation with the landowner, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains and funerary objects. All parties are aware that the MLD may wish to rebury the human remains and associated funerary objects on or near the site of their discovery, in an area that shall not be subject to future subsurface disturbances. The applicant/developer/landowner should accommodate on-site reburial, to the extent feasible, in a location mutually agreed upon by the Parties.	Incorporate protection and avoidance measures into final plans or specifications If human remains are discovered, halt work and follow procedures, as appropriate	WVWD	Verify that protection and avoidance measures are in final plans or specifications During construction	

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It is understood by all Parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, parties, and Lead Agencies will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r).				
Geology and Soils				
MM GEO-1 – Protection of Paleontological Resources In the event that fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they will be properly curated and preserved.	Incorporate protection and avoidance measures into final plans or specifications If paleo resources are discovered, halt work and follow procedures, as appropriate	WVWD Construction Coordinator, WVWD, and Paleontologist	Verify that protection and avoidance measures are in final plans or specifications During construction	
Hydrology and Water Quality				
MM HWQ-1 – Manage Construction Storm Water The WVWD shall obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. The WVWD shall submit permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan, annual fee, and certifications) to the State Water Resources Control Board. The Storm Water Pollution Prevention Plan shall address pollutant sources, drilling fluids, non-storm water discharges resulting from construction dewatering, best management practices, and other requirements specified in the above-mentioned Order. The Storm Water Pollution Prevention Plan shall also include dust control practices to prevent wind erosion, sediment tracking, and dust generation by construction equipment. A Qualified Storm Water Pollution Prevention Plan Practitioner shall oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.	Incorporate SWPPP requirements into specifications Prepare SWPPP and permit registration documents prior to construction Retain a Qualified Storm Water Pollution Prevention Plan Practitioner to oversee SWPPP implementation	WVWD	Verify requirements are in final plan set or specifications Confirm that SWPPP meets State Board requirements and is implemented during construction	

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Noise				
MM NOISE-1 – Manage Vibration Levels The District shall not use heavy vibration-generating construction equipment to the extent feasible. Where heavy vibration-generating equipment must be used, the District shall prepare a vibration study conducted by a qualified acoustic scientist prior to the start of construction. The study will determine the age and sensitivity of potentially affected structures, determine whether a threshold of 0.3 or 0.5 inch/sec PPV is appropriate for each of them, and estimate the projected vibration impact at each structure. The District shall use alternate construction equipment such that the projected Project vibration impact at each structure is less than the appropriate threshold established by the study.	Incorporate noise requirements into specifications Conduct vibration study prior to the start of construction	WVWD	Verify requirements are in final plan set or specifications	
Tribal Cultural Resources				
MM TCR-1 – Protect Tribal Cultural Resources during Construction Activities The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in CR-1, of any pre-contact and/or post-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site. Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The WVWD shall, in good faith, consult with SMBMI throughout the duration of Project construction activities.	WVWD and San Manuel Band of Mission Indians shall coordinate on a monitoring and treatment plan, if necessary WVWD shall provide all archaeological/ cultural documents	WVWD	Verify monitoring and treatment requirements in final plans or specifications, if necessary Verify that archaeological reports are provided to WVWD, if necessary.	