
MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation and Monitoring Reporting Program (MMRP) has been formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) prepared for the proposed Old Jarvis Irrigation Well Demolition Project (proposed project). The purpose of the MMRP is to ensure the implementation of avoidance and minimization measures and mitigation measures identified as part of the environmental review for the project. MMRP Table A includes the following information:

- A list of avoidance and minimization measures and mitigation measures;
- The timing for implementation of the measure;
- The party responsible for implementing the measure;
- The agency/city department responsible for monitoring the implementation; and
- The monitoring action and frequency.

The Alameda County Water District must adopt a MMRP or an equally effective program, if it approves the proposed project with the mitigation measures included in the IS/MND. Public Resources Code, Section 21081.6(a) requires an agency to adopt a program for reporting or monitoring mitigation measures that were adopted or made conditions of project approval.

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Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
AESTHETICS				
<i>There are no mitigation measures related to Aesthetics.</i>				
AGRICULTURAL AND FOREST RESOURCES				
<i>There are no mitigation measures related to Agricultural and Forest Resources.</i>				
AIR QUALITY				
<p>AIR-1: In order to meet the Bay Area Air Quality Management District (BAAQMD) fugitive dust threshold, the following BAAQMD Basic Construction Mitigation Measures shall be implemented:</p> <ul style="list-style-type: none"> • 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. • 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 is prohibited. • All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph). • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. • Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of the California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturers' 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 BAAQMD phone number shall also be visible to ensure compliance with applicable regulations. 	<ul style="list-style-type: none"> • Include measure as Condition of Approval. • Implementation actions are outlined in the measure. 	<p>Throughout the construction period.</p>	<ul style="list-style-type: none"> • Alameda County Water District (ACWD) is responsible for incorporating this measure into contract specification and for ensuring compliance during construction. • The Construction Contractor is responsible for implementing this measure. 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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BIOLOGICAL RESOURCES				
<p>BIO-1: General Conservation Measures. The following measures shall be implemented prior to and during demolition activities:</p> <ol style="list-style-type: none"> 1. A worker awareness program shall be presented to all construction personnel before they start work on the project. The program shall summarize relevant laws and regulations that protect biological resources, discuss sensitive habitats and listed species with the potential to occur in the work zone, explain the role and authority of the biological monitors, and review applicable avoidance measures to protect listed species and habitats. 2. Prior to any construction activities on site, a review of all required permits and notifications shall be performed to ensure requirements for environmental compliance are fully understood, specific limits of activities and work are defined and understood, and all environmental clearances and access, encroachment agreements, and permissions have been obtained from the appropriate agencies and parties. 3. The number of access routes, size of staging areas, and total area of the activity shall be limited to the minimum necessary to achieve the project goal. 4. Preconstruction surveys for special-status plant and wildlife species that are known or have a high potential to occur in the project area shall be conducted prior to construction by USFWS staff. 5. Prior to construction activities, environmentally sensitive areas shall be flagged or fenced in order to clearly delineate the extent of the construction. Project limits shall be established and defined with physical markers to define access routes and maintenance areas to the minimum area necessary to complete the project; this includes locating access routes and maintenance areas outside of any drainages or creeks. 6. To reduce potential impacts from infestation by non-native spartina (<i>Spartina alterniflora</i>), pepperweed (<i>Lepidium latifolium</i>), and other invasive, non-native plant species, all 	<ul style="list-style-type: none"> ● Include measure as Condition of Approval ● Incorporate measure as part of construction specifications 	<p>Prior to and during construction activities.</p>	<ul style="list-style-type: none"> ● ACWD is responsible for incorporating this measure into contract specifications, and ensuring compliance during construction activities. ● A qualified biologist is responsible for conducting worker awareness program, conducting pre-construction surveys of the site, and flagging environmentally sensitive areas. ● The Construction Contractor is responsible for keeping work out of sensitive areas, and compliance with other protection measures (e.g., removal of trash, maintenance of equipment, etc.) 	<p>Verified by:</p> <p>Date:</p>

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<p>equipment (including personal gear) shall be inspected and cleaned of soil, seeds, and plant material prior to arriving on site to prevent introduction of undesirable plant species. Equipment and personal gear shall be subject to inspection.</p> <p>7. All work shall occur during normal daylight working hours.</p> <p>8. All foods and food-related trash items shall be enclosed in sealed trash containers and removed from the site at the end of each workday.</p> <p>9. No pets shall be allowed on the project site.</p> <p>10. All equipment shall be maintained such that there will be no leaks of machine fluids such as gasoline, diesel, or oils.</p> <p>11. Equipment left on the project site overnight shall be placed over plastic mats in order to prevent fluid leakage into soils.</p> <p>12. Hazardous materials such as fuels and oils shall be stored in sealable containers in a designated location that is at least 200 feet from any aquatic habitat.</p> <p>13. Oil and other hazmat spill contingency plans shall be implemented.</p> <p>14. All equipment and personnel should stay within designated project site areas to avoid disturbing sensitive species.</p> <p>15. To prevent entrapment of animals, all excavations, steep-walled holes, or trenches more than 6 inches deep shall be secured against animal entry at the close of each day. Methods that can be employed include: covering holes with plywood or similar materials, providing escape ramps, or surrounding the excavation, hole, or trench with filter fabric fencing to exclude wildlife.</p>				
<p>BIO-2: California Ridgway’s Rail Conservation Measures. As part of the proposed project, the following conservation measures shall be implemented to avoid and minimize potential effects on the California Ridgway’s rail and suitable habitat.</p> <p>1. Work activities within 50 feet of potential California Ridgway’s rail habitat shall not occur within 2 hours before or after extreme high tides (6.5 feet or above as measured at the Golden Gate Bridge adjusted to the timing of local high tides), when the marsh</p>	<ul style="list-style-type: none"> ● Include measure as Condition of Approval ● Incorporate measure as part of construction specifications 	<p>Prior to and during construction activities.</p>	<ul style="list-style-type: none"> ● ACWD is responsible for incorporating this measure into contract specification and ensuring work is appropriately timed to avoid high tide inundation and outside of 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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<p>plain is inundated, which could prevent individuals from reaching available cover.</p> <p>2. The project shall not be conducted during the Ridgway’s rail breeding season (February 1-August 31) to avoid impacts to breeding adults, chicks, and eggs.</p>			<p>the breeding season for California Ridgway’s rail.</p>	
<p>BIO-3: Salt Marsh Harvest Mouse Conservation Measures. As part of the proposed project, the following conservation measures shall be implemented to avoid and minimize potential effects on the salt marsh harvest mouse and its habitats.</p> <p>1. All wetland vegetation within the project area and within a 2-foot buffer around the project area shall be removed by hand using only non-mechanized hand tools (i.e., trowel, hoe, rake, and shovel) or a weed whacker prior to the initiation of work within these areas. Vegetation shall be removed to bare ground or stubble no higher than 1 inch. Vegetation removal shall start at the center of the project area and work its way toward the salt marsh habitat.</p> <p>2. To minimize or avoid the loss of individual salt marsh harvest mice, construction activities will not occur within 2 hours before or after extreme high tides (6.5 feet or above, as measured at the Golden Gate Bridge adjusting to the timing of local tides), when the marsh plain is inundated, because protective cover for mice is limited and activities could prevent them from reaching available cover or push them into the project area.</p> <p>3. To prevent salt marsh harvest mice from moving through the proposed project site during construction, temporary exclusion fencing shall be placed around a defined work area prior to the start of construction activities. The temporary exclusion fencing shall be installed immediately after the hand removal of all wetland vegetation (as described above) from the work area and a 2-foot buffer around the work area for each well (approximately 90 feet by 60 feet). The fence shall be made of a heavy plastic sheeting material that does not allow salt marsh harvest mice to pass through or climb, and the bottom shall be buried to a depth of 4 inches so that salt marsh harvest mice</p>	<ul style="list-style-type: none"> ● Include measure as Condition of Approval ● Incorporate measure as part of construction specifications 	<p>Throughout the construction period.</p>	<ul style="list-style-type: none"> ● ACWD is responsible for incorporating this measure into contract specification and ensuring compliance during construction activities. ● The Construction Contractor is responsible for keeping work out of the exclusion zone. 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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<p>cannot crawl under the fence. Fence height shall be at least 12 inches higher than the highest adjacent vegetation with a maximum height of 4 feet. All supports for the exclusion fencing shall be placed on the inside of the work area. Once work is completed for a well, the fencing should be removed and put in place around the next well.</p> <p>4. Before the start of work each day, an approved worker shall check for animals in or under any equipment and vehicles within the project area. If a salt marsh harvest mouse is encountered, work shall stop, and the USFWS and the California Department of Fish and Wildlife shall be notified immediately for guidance on how to proceed.</p>				
CULTURAL RESOURCES				
<p>CULT-1: Should an archaeological deposit be encountered during project subsurface demolition activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified archaeologist meeting the Secretary of the Interior’s Professional Qualifications Standards for Archeology contacted to assess the situation, determine if the deposit qualifies as a historical resource, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. If the deposit is found to be significant (i.e., eligible for listing in the California Register of Historical Resources), the District shall be responsible for funding and implementing appropriate mitigation measures. Mitigation measures may include recording the archaeological deposit, data recovery and analysis, and public outreach regarding the scientific and cultural importance of the discovery. Upon completion of the selected mitigations, a report documenting methods, findings, and recommendations shall be prepared and submitted to the District for review, and the final report shall be submitted to the Northwest Information Center at Sonoma State University. Significant archaeological materials shall be submitted to an appropriate local curation facility and used for future research and public interpretive displays, as appropriate.</p>	<ul style="list-style-type: none"> ● Include measure as Condition of Approval. ● Incorporate measure as part of construction specifications. 	<p>Throughout the construction period.</p>	<ul style="list-style-type: none"> ● ACWD is responsible for incorporating this measure into contract specifications, hiring a qualified archaeologist (if discoveries are made), and for ensuring compliance during construction. ● The qualified archaeologist is responsible for determining the appropriate treatment of the discovery. ● The Construction Contractor is responsible for cooperating with the qualified archaeologist with any stop-work orders if resources are discovered. 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
GEOLOGY AND SOILS				

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<p>GEO-1: If fossil remains or paleontologically sensitive bedrock is exposed during project construction, all ground-disturbing activities within 25 feet shall be redirected and a qualified paleontologist shall be contacted to review the find. The project team (the District and the paleontologist) shall develop and implement a plan for impact avoidance. Should avoidance be infeasible due to engineering requirements, the project team shall develop and implement a plan to offset the loss of paleontological data through the implementation of a data recovery project, including paleontological recovery. If determined to be a unique paleontological resource, the potentially significant impacts caused by construction may be mitigated through monitoring during construction activity (beyond the area of the initial find), and, if warranted by potential finds, recovery of fossils; preservation, stabilization, and identification of collected resources; curation of resources into a museum repository; and preparation of a final report documenting the monitoring methods and results, to be submitted to the District.</p>	<ul style="list-style-type: none"> ● Include measure as Condition of Approval. ● Incorporate measure as part of construction specifications. 	<p>Throughout the construction period.</p>	<ul style="list-style-type: none"> ● ACWD is responsible for incorporating this measure into contract specifications, hiring a qualified paleontologist (if discoveries are made), and for ensuring compliance during construction. ● The qualified paleontologist is responsible for determining the appropriate treatment of the discovery. ● The Construction Contractor is responsible for cooperating with the qualified paleontologist with any stop-work orders if resources are discovered 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
<p>GREENHOUSE GAS EMISSIONS</p>				
<p><i>There are no new mitigation measures related to Greenhouse Gas Emissions. Implementation of Mitigation Measure AIR-1 (above) would reduce impacts associated with construction-related greenhouse gas emissions.</i></p>				
<p>HAZARDS AND HAZARDOUS MATERIALS</p>				
<p><i>There are no mitigation measures related to Hazards and Hazardous Materials.</i></p>				
<p>HYDROLOGY AND WATER QUALITY</p>				
<p><i>There are no new mitigation measures related to Hydrology and Water Quality. Implementation of project design features (e.g., placement of silt fencing) and Mitigation Measure BIO-1 (defined above) would reduce potential impacts to hydrology and water quality.</i></p>				
<p>LAND USE/PLANNING</p>				
<p><i>There are no mitigation measures related to Land Use/Planning.</i></p>				
<p>MINERAL RESOURCES</p>				
<p><i>There are no mitigation measures related to Mineral Resources.</i></p>				

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NOISE				
<p>NOI-1: The project contractor shall implement the following measures during construction of the project:</p> <ul style="list-style-type: none"> Equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturers' standards. Place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the active project site. Locate equipment staging in areas that would create the greatest possible distance between construction-related noise sources and noise-sensitive receptors nearest the active project site during all construction activities. Ensure that all general construction related activities are restricted to between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday. Designate a "disturbance coordinator" at the City who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaint (e.g., starting too early, bad muffler) and would determine and implement reasonable measures warranted to correct the problem. 	<ul style="list-style-type: none"> Include measure as Condition of Approval. Incorporate measure as part of construction specifications. 	Throughout the construction period	<ul style="list-style-type: none"> ACWD is responsible for incorporating this measure into contract specification and for ensuring compliance during construction, and for implementing the measure. The Construction Contractor is responsible for implementing this measure. 	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
POPULATION AND HOUSING				
<i>There are no mitigation measures related to Population/Housing.</i>				
PUBLIC SERVICES				
<i>There are no mitigation measures related to Public Services.</i>				
RECREATION				
<i>There are no mitigation measures related to Recreation.</i>				
TRANSPORTATION/TRAFFIC				
<i>There are no mitigation measures related to Transportation/Traffic.</i>				
TRIBAL CULTURAL RESOURCES				
<i>There are no new mitigation measures related to Tribal Cultural Resources. Implementation of Mitigation Measure CULT-1 (above) would reduce impacts to tribal cultural resources.</i>				
UTILITIES/SERVICE SYSTEMS				
<i>There are no mitigation measures related to Utilities and Service Systems.</i>				

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Source: LSA (2020).