



# Heritage Ranch Water Resource Recovery Facility Project

## Mitigation Monitoring and Reporting Program

*prepared by*

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# Mitigation Monitoring and Reporting Program

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CEQA requires 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 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, specifications are made herein that identify the action required and the monitoring that must occur. For all mitigation measures, Heritage Ranch Community Services District (HRCSD) is the agency responsible for implementation and oversight.

Heritage Ranch Community Services District  
**Heritage Ranch Water Resource Recovery Facility Project**

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Compliance Verification Initial	Compliance Verification Date
<b>Biological Resources</b>					
<b>BIO-1 Worker Environmental Awareness Program Training</b>					
<p>Prior to commencement of project activities at the spray field portion of the project site, a qualified biologist (i.e., approved by the United States Fish and Wildlife Service) shall conduct a Worker Environmental Awareness Program training for all construction personnel. At a minimum, the training shall include a description of the biology of the California red-legged frog, southwestern pond turtle, Coast Range newt, and two-striped gartersnake and their habitats; the specific measures that are being implemented to avoid these species; the guidelines that must be followed by all construction personnel to avoid take of these species; and the boundaries within which the proposed project may be accomplished. Brochures, books, and briefings may be used in the training session, provided that a qualified person is on hand to answer any questions. The qualified biologist shall appoint a designated person (e.g., the crew foreman) who will be responsible for ensuring all crewmembers comply with the guidelines. The training shall be conducted for all new personnel before they can participate in construction activities.</p>	<ol style="list-style-type: none"> <li>1. Retain a qualified biologist professional to develop and conduct the Worker Environmental Awareness Program training</li> <li>2. Review the training materials for consistency with the requirements of MM BIO-1</li> <li>3. Require attendance of all construction personnel associated with the project at the training</li> <li>4. Maintain record of trained personnel</li> </ol>	<ol style="list-style-type: none"> <li>1. Prior to commencement of project activities at the spray field</li> <li>2. Prior to commencement of project activities at the spray field</li> <li>3. Prior to commencement of project activities at the spray field</li> <li>4. During construction</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Once</li> <li>3. Once prior to commencement of project construction and periodically if new personnel are required</li> <li>4. Periodically</li> </ol>		

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<b>BIO-2 Pre-construction Surveys and Biological Monitoring</b>					
<p>A qualified biologist familiar with California red-legged frog, southwestern pond turtle, Coast Range newt, and two-striped gartersnake shall conduct a pre-construction survey of the spray field and replacement effluent pipeline portions of the project site within 24 hours prior to the start of construction. Surveys must be conducted immediately prior to ground-disturbing activities to lower the probability of one or more adult or sub-adult frogs moving into or laying eggs within the project site after a survey has already been conducted. In addition, a qualified biologist shall be present during initial ground disturbance of the spray field and replacement effluent pipeline portions of the project site. If California red-legged frogs (including eggs and tadpoles) are encountered at any time during project activities at the spray field or replacement effluent pipeline locations, construction activities shall cease in the area and the United States Fish and Wildlife Service shall be notified to determine how to proceed. No work may continue at the spray field or replacement effluent pipeline locations until authorized by the United States Fish and Wildlife Service. If individuals of southwestern pond turtle, Coast Range newt, or two-striped gartersnake are discovered during the pre-construction survey or monitoring, these individuals shall be immediately relocated the shortest distance practicable to a location that contains suitable habitat that is not likely to be affected by activities associated with the proposed project.</p>	<ol style="list-style-type: none"> <li>1. Retain a qualified biologist to conduct pre-construction survey and biological monitoring for special status wildlife species</li> <li>2. Review survey results</li> <li>3. Review biological monitoring results</li> <li>4. If California red-legged frogs (including eggs and tadpoles) are encountered, notify United States Fish and Wildlife Service and require contractor(s) to cease activities until authorized by United States Fish and Wildlife Service</li> <li>5. If southwestern pond turtles, Coast Range newts, or two-striped gartersnakes are encountered, require qualified biologist to immediately re-locate and review documentation of capture and relocation efforts</li> </ol>	<ol style="list-style-type: none"> <li>1. Within 24 hours prior to the start of construction at the spray field and replacement effluent pipeline alignment</li> <li>2. Prior to commencement of construction at the spray field and replacement effluent pipeline alignment</li> <li>3. Following initial ground disturbing activities at the spray field and replacement effluent pipeline alignment</li> <li>4. During construction, as needed</li> <li>5. During construction, as needed</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Once</li> <li>3. Once</li> <li>4. As needed</li> <li>5. As needed</li> </ol>		

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<b>BIO-3 Construction Site Best Management Practices</b>					
<p>The following avoidance and minimization measures shall be implemented during construction activities at the spray field location of the project site:</p> <ul style="list-style-type: none"> <li>▪ All vehicles and equipment shall be in good working condition and free of leaks. A spill prevention plan shall be established in the event of a leak or spill.</li> <li>▪ The number of access routes, numbers and sizes of staging areas, and the total area of the activity shall be limited to the minimum necessary to achieve the project goal. Routes and boundaries shall be clearly demarcated.</li> <li>▪ All areas outside of the project perimeter fence shall be designated as Environmentally Sensitive Areas where no construction activities shall occur.</li> <li>▪ Work shall be restricted to daylight hours.</li> <li>▪ Water shall not be impounded in a manner that may attract California red-legged frog, southwestern pond turtle, Coast Range newt, and two-striped gartersnake.</li> <li>▪ Work shall be conducted during dry weather conditions (i.e., days with less than 0.1 inch of predicted rainfall), outside of the wet season (October 15 through April 30).</li> <li>▪ Herbicides shall not be used on-site during construction.</li> <li>▪ No pets or firearms shall be permitted on-site.</li> <li>▪ All food-related trash shall be disposed of in closed containers and removed from the project area at least twice per week during the construction period to avoid attracting predators.</li> </ul>	<ol style="list-style-type: none"> <li>1. Include best management practices requirements in construction contractor specifications</li> <li>2. Field verify compliance with best management practices</li> </ol>	<ol style="list-style-type: none"> <li>1. Prior to issuance of construction bid package(s) for construction activities at spray field</li> <li>2. During construction at spray field</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Periodically</li> </ol>		

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<b>BIO-4 Avoidance and Minimization Measures for Nesting Birds</b>					
<p>Initial site disturbance in the project site shall occur outside the general avian nesting season (February 1 through August 31), if feasible. If avoidance of the nesting season for initial disturbance is not feasible, a qualified biologist shall conduct a pre-construction nesting bird survey to determine the presence/absence, location, and status of any active nests on or adjacent to the project site. The extent of the survey buffer area surrounding the project site shall be established by the qualified biologist to ensure direct and indirect effects to nesting birds are avoided. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening and topography. Nesting bird surveys shall be performed no more than 14 days prior to initial site disturbance. In the event active nests are discovered, a suitable buffer shall be established around such active nests and no construction within the buffer shall be allowed until a qualified biologist has determined the nest is no longer active (e.g., the nestlings have fledged and are no longer reliant on the nest). No project activities shall occur within this buffer until the qualified biologist has confirmed breeding/nesting is completed and the young have fledged the nest. Nesting bird surveys are not required for initial site disturbance occurring between September 1 and January 31.</p>	<ol style="list-style-type: none"> <li>1. Schedule construction activities to commence outside the general avian nesting season (February 1 to August 31) if feasible</li> <li>2. If project construction commences within the general avian nesting season (February 1 to August 31), retain a qualified biologist to conduct a pre-construction nesting bird survey</li> <li>3. Review and approve survey results</li> <li>4. Field verify compliance with any avoidance requirements, as needed</li> </ol>	<ol style="list-style-type: none"> <li>1. Prior to the start of construction</li> <li>2. No more than 14 days prior to initial site disturbance if occurring between February 1 and August 31</li> <li>3. Prior to commencement of initial site disturbance, if occurring between February 1 and August 31</li> <li>4. During construction, as needed</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Once</li> <li>3. Once</li> <li>4. As needed</li> </ol>		

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<b>Cultural Resources</b>					
<b>CR-1 Unanticipated Discovery of Cultural Resources</b>					
<p>If archaeological resources are unexpectedly encountered during project-related ground-disturbing activities, work in the immediate area shall be halted and a qualified 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 find is prehistoric, then a Native American representative shall also be contacted to participate in the evaluation of the find. If necessary, the evaluation may require preparation of a treatment plan and archaeological testing for California Register of Historical Resources eligibility. If the discovery proves to be eligible for the California Register of Historical Resources and cannot be avoided by the proposed project, additional work, such as data recovery excavation, may be warranted to mitigate any significant impacts to historical resources.</p>	<ol style="list-style-type: none"> <li>1. If archaeological resources are encountered, halt work within the immediate area of the find and contact an archaeologist immediately to evaluate the find</li> <li>2. If the find is prehistoric and/or of Native American origin, contact a Native American representative to participate in the evaluation of the find</li> <li>3. If the find is deemed significant, retain a Native American representative to participate in the evaluation of the find</li> <li>4. If the find is deemed significant, review and approve additional work for evaluation and data recovery efforts and to mitigate any impacts to eligible resources</li> </ol>	<p>During ground-disturbing activities, as needed and if archaeological resources are identified</p>	<p>As needed</p>		

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<b>Geology and Soils</b>					
<b>GEO-1 Paleontological Resources Monitoring and Mitigation</b>					
<p>The following measures shall be implemented during construction at Assessor's Parcel Number 012-181-085:</p> <ul style="list-style-type: none"> <li>▪ <b>Qualified Paleontologist.</b> HRCSD shall retain a Qualified Professional Paleontologist, as defined by Society of Vertebrate Paleontology (2010) standards, prior to the construction at Assessor's Parcel Number 012-181-085. The Qualified Professional Paleontologist shall direct all mitigation measures related to paleontological resources.</li> <li>▪ <b>Paleontological Worker Environmental Awareness Program.</b> Prior to the start of 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 shall fossils be discovered by construction staff.</li> <li>▪ <b>Paleontological Monitoring.</b> Full-time paleontological monitoring shall be conducted during ground-disturbing construction activities in previously undisturbed sediments associated with construction at Assessor's Parcel Number 012-181-085. Additionally, initial part-time monitoring (i.e., spot-checking) shall be conducted during trenching for the replacement effluent pipeline to determine whether previously undisturbed, high-sensitivity sediments (i.e., Quaternary older alluvium or Atascadero Formation) are being affected. If such sediments are encountered, then full-time monitoring shall be conducted. Paleontological monitoring shall be conducted by a qualified paleontological monitor, who is defined as an</li> </ul>	<ol style="list-style-type: none"> <li>1. Retain a Qualified Professional Paleontologist to direct all paleontological resources mitigation measures</li> <li>2. Review the Worker Environmental Awareness Program training materials for consistency with the requirements of MM GEO-1, require attendance of all construction personnel associated with construction at Assessor's Parcel Number 012-181-085 at the training, and maintain record of trained personnel</li> <li>3. Retain qualified paleontological monitor to conduct paleontological monitoring</li> <li>4. If a fossil discovery occurs, halt work in the immediate vicinity of the find and contact a Qualified Professional Paleontologist to perform an evaluation of the find. If the find is deemed significant, direct the Qualified Professional Paleontologist to perform</li> </ol>	<ol style="list-style-type: none"> <li>1. Prior to construction at Assessor's Parcel Number 012-181-085</li> <li>2. Prior to construction at Assessor's Parcel Number 012-181-085</li> <li>3. During construction at Assessor's Parcel Number 012-181-085 and along replacement effluent pipeline alignment</li> <li>4. As needed</li> <li>5. After completion of construction at Assessor's Parcel Number 012-181-085 and along replacement effluent pipeline alignment</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Once prior to commencement of project construction and periodically if new personnel are required</li> <li>3. Once</li> <li>4. As needed</li> <li>5. Once</li> </ol>		



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<p>individual with experience collecting and salvaging paleontological resources and meets the minimum standards of the Society of Vertebrate Paleontology (2010) for a Paleontological Resources Monitor. The duration and timing of the monitoring shall be determined by the Qualified Professional Paleontologist based on the observation of the geologic setting from initial ground disturbance and subject to review and approval by HRCSD. If the Qualified Professional Paleontologist determines full-time monitoring is no longer warranted, they may recommend monitoring be reduced to periodic spot-checking or ceased entirely.</p> <ul style="list-style-type: none"> <li>▪ <b>Fossil Discovery Procedures.</b> In the event of a fossil discovery by the paleontological monitor or construction personnel, all work in the immediate vicinity of the find shall cease. A Qualified Professional Paleontologist shall evaluate the find before restarting construction activity in the area. If it is determined the fossil(s) is (are) scientifically significant, the Qualified Professional Paleontologist shall complete the following conditions to mitigate impacts/effects to significant fossil resources: <ul style="list-style-type: none"> <li>▫ <b>Fossil Salvage.</b> If fossils are discovered, the paleontological monitor shall have the authority to halt or temporarily divert construction equipment within 50 feet of the find until the monitor and/or lead paleontologist evaluates the discovery and determines if the fossil may be considered significant.</li> <li>▫ <b>Fossil Preparation and Curation.</b> Once salvaged, significant fossils shall be identified to the lowest 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,</li> </ul> </li> </ul>	<p>conduct fossil salvage, preparation, and curation</p> <p>5. Review and approve Final Paleontological Mitigation Report and verify submittal to designated museum repository, if necessary</p>				

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<p>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.</p> <ul style="list-style-type: none"> <li>▪ <b>Final Paleontological Mitigation Report.</b> Upon completion of ground-disturbing activities at Assessor's Parcel Number 012-181-085 (and curation of fossils if necessary), the Qualified Professional Paleontologist shall prepare a final report describing the results of the paleontological monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations.</li> </ul> <p>The report shall be submitted to HRCSD. If the monitoring efforts produce fossils, a copy of the report shall also be submitted to the designated museum repository.</p>					

**Hazards and Hazardous Materials**

**HAZ-1 Traffic Control Plan**

HRCSD shall require the project 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 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.

1. Review and approve traffic control plan for consistency with requirements of MM HAZ-1
2. Verify notification of local emergency response providers

1. Prior to construction
2. At least one week prior to lane or road closures

1. Once
2. Once for each instance of lane and road closures

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<b>Noise</b>					
<b>NOI-1 Operational Noise Reductions</b>					
<p>HRCSD shall reduce operational noise levels from the project’s emergency generator to not exceed the daytime exterior noise limit for stationary noise sources of 50 A-weighted decibels (dBA) dBA L<sub>eq</sub> contained in San Luis Obispo County Code Section 22.10.120(B). HRCSD shall achieve consistency with the noise limits by implementing one the following measures:</p> <ul style="list-style-type: none"> <li>▪ Site the generator at least 260 feet away from the nearest residences;</li> <li>▪ Select a generator model that emits noise levels at or below 67.5 dBA L<sub>eq</sub> at 23 feet; or</li> <li>▪ Install a solid barrier around the southern portion of the generator, tall enough to break the line of sight between the generator and closest residences. The barrier/enclosure shall be constructed of a material with a minimum weight of four pounds per square foot with no gaps or perforations to the south. The barrier may be constructed of, but is not limited to, masonry block, concrete panels, 1/8 inch thick steel sheets, 1-1/2 inch wood fencing, or 1/4 inch glass panels. If wood is used as the primary barrier component, the fence boards shall overlap or be of “tongue and groove” construction with a joining compound between the boards to ensure there would be no gaps or holes in the fence, and annual inspection and maintenance shall be conducted for the life of the project to ensure the barrier continues to perform to the minimum requirements.</li> </ul>	<ol style="list-style-type: none"> <li>1. Verify project plans incorporate at least one of the operational noise reduction design measures listed in MM NOI-1</li> <li>2. Verify operational noise reduction design measure(s) is implemented</li> </ol>	<ol style="list-style-type: none"> <li>1. Prior to start of construction</li> <li>2. Upon completion of construction</li> </ol>	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Once</li> </ol>		

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