

Appendix F
Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM: UPGRADE OF THE CITY OF REDLANDS WASTEWATER TREATMENT PLANT REDLANDS, CALIFORNIA

Section 21081.6 of the Public Resources Code, enacted by passage of Assembly Bill 3180 (Cortese Bill), requires public agencies approving projects with significant environmental impacts to adopt a Mitigation Monitoring and Reporting Program (MMRP). This objective of the program is to ensure that mitigation measures adopted to avoid or mitigate potentially significant environmental impacts are implemented. Section 21081.6 of the Public Resources Code requires all state and local agencies to establish monitoring and reporting programs whenever approval of a project relies upon a Mitigated Negative Declaration (MND) or an Environmental Impact Report (EIR).

In accordance with these requirements, this MMRP has been prepared to ensure that mitigation measures identified in the Initial Study/Mitigated Negative Declaration for the proposed upgrade of the City of Redlands Wastewater Treatment Plant (or subsequent revisions thereto) are implemented in an effective and timely manner, and that identified impacts are avoided or mitigated to a level of insignificance. This MMRP identifies responsible parties for the mitigation program and includes a detailed discussion of monitoring and reporting procedures for each mitigation measure.

I. Responsible Party

The City of Redlands Municipal Utilities and Engineering Department, or its designee, would be responsible for:

- Implementing and reporting mitigation measures in this program
- Ensuring that mitigation measures are accomplished in an environmentally responsible manner
- Ensuring that the status of mitigation measures is reported in accordance with this program
- Ensuring that the cost of mitigation is included in its budget
- Ensuring that mitigation measures are properly carried out by designated and qualified personnel, which may include specialty contractors
- Program oversight

Mitigation measures would be included in applicable Request for Proposals, contractor specifications, plans, drawings, and procedures issued for construction of the proposed upgrade of the City of Redlands Wastewater Treatment Plant that is within the scope of this project.

II. Mitigation Requirements

Based on the findings of the Initial Study/Mitigated Negative Declaration, mitigation measures are not required for aesthetics, agriculture and forestry resources, air quality, energy, greenhouse gases, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation, utilities and service systems, and wildfire. Specific mitigation measures are

required for biological resources (BIO-), cultural resources (CUL-), geology and soils (GEO-), and tribal cultural resources (TCR-). Potentially significant impacts in these environmental resource areas would be avoided or minimized with implementation of specific mitigation measures summarized in Table F-1.

Table F-1. Summary of Mitigation Measures

CATEGORY	MITIGATION MEASURE	MITIGATION MEASURE	INITIAL STUDY SECTION
Biological Resources	BIO-1	Preconstruction Nesting Bird Survey	2.3.IV (a,d)
	BIO-2	Preconstruction Nesting Raptor Survey	2.3.IV (a,d)
	BIO-3	Nesting Bird/Burrowing Owl Awareness Training	2.3.IV (a,d)
	BIO-4	Tree Protection	2.3.IV (a,d)
	BIO-4	Soil Stabilization and Erosion Control	2.3.IV (a,d)
	BIO-5	Preconstruction Burrowing Owl Survey	2.3.IV (a,d)
	BIO-6	Preconstruction Burrowing Mammal Survey	2.3.IV (a,d)
	BIO-7	Bat Precautions	2.3.IV (a,d)
Cultural Resources	CUL-1	Unanticipated Discovery of Archaeological Materials	2.3.V (b)
	CUL-2	Unanticipated Discovery of Human Remains	2.3.V (c)
Geology and Soils	GEO-1	Paleontological Resources Monitoring and Mitigation	2.3.VII (f)
Tribal Cultural Resources	TCR-1	Unanticipated Discovery of Tribal Cultural Resources	2.3.XVIII (b)
	TCR-2	Monitoring and Treatment Plan	2.3.XVIII (b)
	TCR-3	Ongoing Coordination and Documents and Reports	2.3.XVIII (b)

III. Schedule and Reporting Frequency

Table F-2 describes the method for executing each of the mitigation measures, the organization responsible for implementing the measure, the organization responsible for funding the measure, estimated completion date for each measure, frequency of reporting, and impact significance after mitigation. Due to possible funding conditions and other external factors, project construction could be delayed. These delays may also affect the start and completion of mitigation measures.

The monitoring and completion of each mitigation measure would be documented on a Mitigation Monitoring Report form (see Exhibit F-1). This form would be filled out by the appropriate individual responsible for monitoring the mitigation (e.g., in the event of an inadvertent discovery of archaeological materials, paleontological materials, human remains or tribal cultural resources) as described in Table F-2. Supplemental recordkeeping, report

Initial Study/Mitigated Negative Declaration

preparation, and documentation would be required for some mitigation measures. The Mitigation Monitoring Report form would be filled out by the appropriate individual verifying that steps to prevent or minimize environmental degradation have been completed as described in Table F-2. Monitoring reports would be submitted to the City Municipal Utilities and Engineering Department, retained in the City's project files, and be available for inspection upon request. Completion of these forms would demonstrate and document compliance with Public Resources Code 21081.6.

Table F-2. Implementation of Mitigation Measures

MITIGATION NO.	MITIGATION MEASURE	METHOD FOR EXECUTION OF MITIGATION	ENTITY RESPONSIBLE FOR MITIGATION MONITORING	COMPLETION DATE	FREQUENCY OF REPORTING	SIGNIFICANCE AFTER MITIGATION
BIO-1	Preconstruction Nesting Bird Survey	For construction in areas containing mature trees or potential habitat for nesting birds, and that is initiated between February 1 and September 1, a Qualified Biologist shall conduct a preconstruction nesting bird survey to determine if any nesting birds (including burrowing owl [BUOW]) are present on the work site. This survey would be initiated within 30 days before the start of construction. The survey report would include a finding of whether monitoring during construction would be required. Should nesting birds be found, an exclusionary buffer would be established by the Qualified Biologist around each nest site. Buffer size would be determined by bird species. The Qualified Biologist would be responsible for surveys, providing nesting bird identification, implementation of identified protection measures, and coordination with applicable resource agencies. The buffer would be clearly marked in the field by construction personnel under guidance of the contractor's	Redlands MUE	30 days before start of construction	Upon completion of survey for each construction location	Less than Significant

Table F-2. Implementation of Mitigation Measures

MITIGATION NO.	MITIGATION MEASURE	METHOD FOR EXECUTION OF MITIGATION	ENTITY RESPONSIBLE FOR MITIGATION MONITORING	COMPLETION DATE	FREQUENCY OF REPORTING	SIGNIFICANCE AFTER MITIGATION
		<p>Qualified Biologist, in coordination with the United States Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW). Construction or clearing shall not be conducted within this zone until the Qualified Biologist determines that the young have fledged or the nest is no longer active.</p>				
BIO-2	Preconstruction Nesting Raptor Survey	<p>A preconstruction survey for nesting raptors shall be conducted by a Qualified Biologist within the limits of project disturbance, 7 days prior to the onset of construction activities. Any active nest found during survey efforts shall be mapped on the construction plans. If nesting activity is present, the active site shall be protected until nesting activity ends to ensure compliance with Section 3503.5 of the California Fish and Game Code.</p> <p>Nesting activity for raptors in the region normally occurs from February 1 to August 31. If no active nests are found, no further mitigation would be required. Results of the surveys shall be</p>	Redlands MUE	7 days before start of construction	Upon completion of survey for each construction location	Less than Significant

Table F-2. Implementation of Mitigation Measures

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		<p>provided to CDFW.</p> <p>To protect an active nest site, the following restrictions on construction would be required between February 1 and August 31 (or until nests are no longer active, as determined by a Qualified Biologist): (1) clearing limits shall be established a minimum of 300 feet in any direction from any occupied nest and (2) access and surveying shall be restricted within 200 feet of any occupied nest. Any encroachment into the 300-/200-foot buffer area around the active nest shall only be allowed if it is determined by a Qualified Biologist that the proposed activity shall not disturb the nest occupants. Construction during the non-nesting season can occur only at the buffer areas if a Qualified Biologist determines that fledglings have left the nest.</p>				
BIO-3	Nesting Bird/ Burrowing Owl Awareness Training	For work within areas considered potential nesting habitat, the construction contractor(s) shall ensure that the workers' environmental awareness training	Redlands MUE	Before the start of construction	After the start of construction	Less than Significant

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		program includes a short instructional presentation on nesting birds that is to be presented to all construction personnel at the start of earthwork.				
BIO-4	Tree Protection	Trimming of mature trees that are located near construction areas (within 50 feet) shall be conducted outside of the bird nesting season (February 15 to September 1). Trees shall be flagged as an environmentally sensitive area by a Qualified Biologist. A City of Redlands Landscape Architect, or designated representative, shall approve the species proposed for planting onsite.	Redlands MUE	Before the start of the bird nesting season (February 15 to September 1)	After trimming	Less than Significant
BIO-5	Preconstruction Burrowing Owl Survey	A preconstruction survey shall be conducted by a Qualified Biologist within 30 days prior to any phase of construction in the areas identified as potential BUOW habitat and in accordance with the survey requirements detailed in the Staff Report on Burrowing Owl (CDFG, 2012). If no active burrows are found, no further mitigation shall be required. Any active burrow found during	Redlands MUE	Before the start of construction	After the preconstruction survey If active burrows are found, after completion of construction and completion of mitigation	Less than Significant

Table F-2. Implementation of Mitigation Measures

MITIGATION NO.	MITIGATION MEASURE	METHOD FOR EXECUTION OF MITIGATION	ENTITY RESPONSIBLE FOR MITIGATION MONITORING	COMPLETION DATE	FREQUENCY OF REPORTING	SIGNIFICANCE AFTER MITIGATION
		<p>preconstruction survey efforts shall be mapped and provided to the construction foreman so that all work is stopped in the immediate area of the occupied burrow. No disturbance shall occur within 160 feet of occupied burrows during the nonbreeding season (September 1 through January 31) or within 250 feet during the breeding season (February 1 through August 31).</p> <p>If BUOW must be moved away from the disturbance area, passive relocation is preferable to trapping. Relocation shall be implemented only during the nonbreeding season by a Qualified Biologist and would occur in coordination with CDFW. BUOW shall be excluded from burrows in the immediate impact zone by installing one-way doors in burrow entrances. One-way doors shall be left in place for 48 hours to ensure BUOW have left the burrow before excavation.</p> <p>An effort shall be made to preserve foraging habitat contiguous with occupied burrow sites for each pair of breeding BUOW or for every</p>				

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		<p>single unpaired resident bird.</p> <p>Additional compensatory mitigation for BUOW shall be required only if BUOW found within 250 feet of construction activities during preconstruction surveys cannot be avoided during construction. This may include offsite mitigation through the improvement or addition of BUOW habitat. In this event, further coordination with CDFW is required.</p>				
BIO-6	Preconstruction Burrowing Mammal Survey	<p>A preconstruction survey shall be conducted within 30 days of ground disturbance for sensitive burrowing mammals (i.e., American badger, San Bernardino kangaroo rat, Stephen's kangaroo rat, or Los Angeles pocket mouse) to avoid impacting these animals. Active burrows identified during the preconstruction survey shall be flagged for avoidance until authorization from USFWS and CDFW is obtained to move listed species from the construction area. In addition to flagging burrows for avoidance, an exclusionary buffer of at least 100 feet shall be set at</p>	Redlands MUE	Before the start of construction	<p>After the preconstruction survey</p> <p>If burrowing mammals are found, after completion of construction and completion of mitigation</p>	Less than Significant

Table F-2. Implementation of Mitigation Measures

MITIGATION NO.	MITIGATION MEASURE	METHOD FOR EXECUTION OF MITIGATION	ENTITY RESPONSIBLE FOR MITIGATION MONITORING	COMPLETION DATE	FREQUENCY OF REPORTING	SIGNIFICANCE AFTER MITIGATION
		the discretion of the Qualified Biologist to avoid potential impacts to sensitive burrowing animals.				
BIO-7	Bat Precautions	During construction, when nightwork is required, lighting during the early evening twilight hours adjacent to open space areas shall be minimized or avoided to the greatest extent possible. Permanent night lighting for the project shall be directed away from natural open space areas.	Redlands MUE	During night construction	After construction	Less than Significant
CUL-1	Unanticipated Discovery of Archaeological Materials	In the unlikely event subsurface archaeological materials are identified during ground-disturbing activities, work shall be halted within 60 feet of the find. A qualified archaeologist shall be retained to record and evaluate the find. If the unanticipated discovery is determined to be a historic property under Section 106 of the NHPA or a historical resource or unique archaeological resource under CEQA, the City shall notify the State Historic Preservation Officer (SHPO), consulting Native American groups (including the San Manuel Band of Mission Indians), and the	Redlands MUE	During ground-disturbing activities	If archaeological materials are found, after completion of ground-disturbing activities and implementation of mitigation or treatment plan	Less than Significant

Table F-2. Implementation of Mitigation Measures

MITIGATION NO.	MITIGATION MEASURE	METHOD FOR EXECUTION OF MITIGATION	ENTITY RESPONSIBLE FOR MITIGATION MONITORING	COMPLETION DATE	FREQUENCY OF REPORTING	SIGNIFICANCE AFTER MITIGATION
		<p>Advisory Council on Historic Preservation within 48 hours of the discovery. The archaeologist shall develop a Monitoring and Treatment Plan in consultation with the City and affected tribes that satisfies the requirements of Section 106 of the NHPA and PRC Section 21083.2 and Section 15064.5 of the CEQA Guidelines. The Monitoring and Treatment Plan shall include recordation, onsite preservation, data recovery and curation, and/or other measures to protect or preserve the significance of the resource. Work shall not resume until the City has given authorization to resume work.</p>				
CUL-2	Unanticipated Discovery of Human Remains	<p>In the unlikely event human remains or funerary objects are encountered, all activity within the work location shall be halted within 100 feet of the find, and the City and the San Bernardino County Coroner notified immediately, in accordance with the procedures in CEQA Guidelines Section 15064.5(e), California Health and Safety Code Section 7050.5(b), and California PRC Section 5097.98. If</p>	Redlands MUE	During ground-disturbing activities	If human remains as found, after treatment or reburial of the remains	Less than Significant

Table F-2. Implementation of Mitigation Measures

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		<p>the Coroner determines the remains to be of Native American origin, he or she shall notify the Native American Heritage Commission (NAHC). The NAHC shall then identify the most likely descendant (MLD) to be consulted regarding treatment and/or repatriation of the remains. The MLD shall be granted access to examine the remains and then has 48 hours to provide recommendations for the treatment or reburial of the remains. If the MLD fails to make a recommendation within 48 hours of being granted access to the remains, the City shall rebury the remains in a location that would not be subject to further disturbance.</p>				
GEO-1	Paleontological Resources Monitoring and Mitigation	<p>Part-time monitoring (i.e., spot-checking) shall be conducted when ground-disturbing activities (i.e., utility trenching) impact sediments at 8 feet below ground surface or deeper to check for the presence of Pleistocene-age deposits. If Pleistocene-age deposits are observed at depth and would be impacted by planned excavations,</p>	Redlands MUE	During earthwork that is 8 feet or more below the ground surface	At completion of ground-disturbing activities at 8 feet or more below the ground surface If paleontological	Less than Significant

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		<p>then monitoring efforts shall be increased to full time. If only artificial fill, late Holocene-age very young wash deposits (Qw, Qw1), and/or middle Holocene-age young axial-channel deposits (Qya3) are observed, then spot-checking can be reduced or ceased at the discretion of a qualified paleontologist in consultation with the City. Any subsurface bones or potential fossils that are unearthed during construction should be evaluated, recorded, and reported by a qualified paleontologist.</p> <p>Paleontological resources determined to be significant, or potentially significant, shall be subject to fossil recovery, laboratory analysis, and museum curation (through a curation agreement with the San Bernardino County Museum, or another appropriate repository).</p>			resources are found, after fossil recovery, laboratory analysis, and museum curation	
TCR-1:	Monitoring and Unanticipated Discovery of Tribal Cultural Resources	A Tribal Monitor from the Consulting Tribe(s) shall be onsite to monitor all project-related earthmoving work. Prior to the initiation of construction activities,	Redlands MUE	During ground-disturbing activities	If tribal cultural resources are discovered	Less than Significant

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		<p>a rotating schedule of Tribal Monitor(s) shall be established. In the event that potential tribal 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 this assessment period. The Consulting Tribe(s) Cultural Resources Department shall be contacted and provided information regarding the nature of the find, so as to allow Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a tribal cultural resources Monitoring and Treatment Plan shall be created, in coordination with the Consulting Tribe(s) and all subsequent finds of tribal cultural resources shall be</p>				

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		subject to this Plan.				
TCR-2	Monitoring and Treatment Plan	If significant pre-contact and/or historic-era tribal cultural resources are discovered and avoidance cannot be ensured, a Monitoring and Treatment Plan shall be developed in coordination with Consulting Tribes, the drafts of which shall be provided to the Consulting Tribe(s) for review and comment. The tribal monitor(s) and/or archaeologist shall monitor the remainder of the project and implement the Plan accordingly.	Redlands MUE	During ground-disturbing activities	If tribal cultural resources are discovered	Less than Significant
TCR-3	Ongoing Coordination and Documents and Reports	The City shall, in good faith, coordinate with the Consulting Tribe(s) throughout the life of the project for any tribal cultural resources. Any and all archaeological/cultural documents created as part of the project and may be legally disclosed in accordance with applicable law (e.g., isolate records, site records, survey reports, testing reports) shall be supplied to the Consulting Tribe(s).	Redlands MUE	Throughout project construction	If archaeological/cultural documents are created as part of the project	Less than Significant

**EXHIBIT F-1
MITIGATION MONITORING REPORT FORM**

<p>MITIGATION MONITORING REPORT SECTION 21081.6 PUBLIC RESOURCES CODE</p>	
<p>Lead Agency City of Redlands Municipal Utilities and Engineering Department 35 Cajon Street, Suite 15A Redlands, California 92373</p>	<p>Page ____ of ____</p>
<p>Project Name UPGRADE OF THE CITY OF REDLANDS WASTEWATER TREATMENT PLANT</p>	
<p>Location City of Redlands Wastewater Treatment Plant 1950 Nevada Street Redlands, California 92373</p>	<p>File No.</p>
<p>Mitigation Measure No. _____ Mitigation Description:</p>	
<p>Monitoring Frequency</p>	<p>Reporting Requirement</p>
<p>Remarks</p>	
<p>The information contained in this report is an independent evaluation based on my personal observations and information provided to me. In accordance with Section 21081.6 of the California Public Resources Code, I hereby certify under penalty of perjury that the information contained herein is true and correct to the best of my knowledge.</p> <p>Name of Person Completing Form _____ Title _____</p> <p>Signature _____ Date Signed _____</p> <p>Form Received by: _____ Signature: _____</p> <p>Title: _____ Department/Division: _____ Date Rec'd: _____</p>	
<p>Compliance Acceptance: <input type="checkbox"/> Yes <input type="checkbox"/> No Date Rec'd by Report Recipient: _____ Mitigation Completed: <input type="checkbox"/> Yes <input type="checkbox"/> No Date Completed: _____</p> <p>Monitoring Completed: <input type="checkbox"/> Yes <input type="checkbox"/> No Date Completed: _____</p>	

Attach additional sheets if necessary.