

### I-2-A, Summary of Environmental Impacts and Mitigation Matrix

The following table identifies significant environmental impacts resulting from the Project along with applicable mitigation, pursuant to the *CEQA Guidelines* Section 15123(b)(1). The table also identifies the monitoring/reporting method and party responsible for verifying compliance or implementation of each mitigation measure as required by Section 15097 of the *CEQA Guidelines*. The parties responsible for implementing the mitigation measures are indicated below.

Impact Category	Impact	Mitigation Measure	Implementation Timing	Responsible Party	Impact After Mitigation
<b>Agricultural Resources</b>	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), or involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use.	No feasible mitigation exists to reduce or eliminate the conversion of Farmland.	N/A	N/A	Significant – requires Statement of Overriding Considerations
<i>In order to reduce NO<sub>x</sub>, PM-10 emissions from project construction, the following mitigation measures shall be implemented:</i>					
<b>Air Quality</b>	Violate air quality standards, contribute to air quality violation, or result in a cumulatively considerable increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality	<b>MM Air 1:</b> During construction, mobile construction equipment will be properly maintained according to manufacturers' specifications at an off-site location, which includes proper tuning and timing of engines. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction.	During Construction	Contractor and City of San Jacinto	Significant – requires Statement of Overriding Considerations

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	standard.				
<b>Air Quality</b>	Violate air quality standards, contribute to air quality violation, or result in a cumulatively considerable increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.	<b>MM Air 2:</b> During construction, all vehicles shall be prohibited from idling in excess of five minutes, both on and off site.	During Construction	Contractor and City of San Jacinto	Significant – requires Statement of Overriding Considerations
<b>Air Quality</b>	Violate air quality standards, contribute to air quality violation, or result in a cumulatively considerable increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.	<b>MM Air 3:</b> Construction parking shall be configured to minimize traffic interference.	During Construction	Contractor and City of San Jacinto	Significant – requires Statement of Overriding Considerations

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<b>Air Quality</b>	Violate air quality standards, contribute to air quality violation, or result in a cumulatively considerable increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.	<b>MM Air 4:</b> The Project shall be required by contract specification to include construction equipment engines that meet or exceed Tier 3 standards. <u>Consideration will be given to contractor's that provide proof that SCAQMD's SOON Program (and/or other applicable grant programs) have been applied for funding.</u> Contract specifications shall be included in project construction documents, which shall be reviewed by the City prior to awarding the construction contract. <u>A copy of each unit's certified tier specification, best available control technology (BACT) documentation, and CARB or SCAQMD operating permit shall be provided at the time of mobilization of each applicable piece of equipment.</u>	Prior to awarding the construction contract.	Contractor and City of San Jacinto	Significant – requires Statement of Overriding Considerations
<b>Air Quality</b>	Violate air quality standards, contribute to air quality violation, or result in a cumulatively considerable increase in any criteria pollutant for which the project region is non-attainment under applicable federal or state ambient air quality standards.	<b>MM Air 5:</b> All dump trucks used for soil hauling during Project construction shall comply with either 2007 or 2010 engine emission standard pursuant to Title 13, Section 2025(d). <u>Contract specifications shall be included in Project construction documents, which shall be reviewed by the City prior to awarding the construction contract.</u>	Prior to awarding the construction contract	Contractor and City of San Jacinto	Significant requires Statement of Overriding Considerations
<b>Biological Resources</b>	Conflict with the provisions of an adopted Habitat	<b>MM Bio 1:</b> A pre-construction survey will be conducted prior to initiation of project construction activities within suitable habitat	Within 30-days prior to construction start	Qualified Biologist and	Less than significant

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	Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan.	of the burrowing owl. Objective 6 of the MSHCP species-specific burrowing owl objectives states that pre-construction presence/absence surveys for the burrowing owl will be conducted where suitable habitat is present. Surveys will be conducted within 30 days prior to disturbance. If burrowing owls are detected, then passive relocation (use of one-way doors and collapse of burrows) will occur outside the nesting season. Take of active nests will be avoided.		City of San Jacinto	
<b>Biological Resources</b>	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan.	<b>MM Bio 2:</b> To reduce impacts associated with temporary construction activities on sensitive species and habitats, Standard Best Management Practices and Construction Guidelines, as outlined in Volume I Appendix C and Section 7.5.3 of the MSHCP, respectively, shall be implemented where technically feasible.	Within 30-days prior to construction start	Qualified Biologist and City of San Jacinto	Less than significant
<b>Biological Resources</b>	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or the U.S. Fish	<b>MM Bio 1:</b> A pre-construction survey will be conducted prior to initiation of project construction activities within suitable habitat of the burrowing owl. Objective 6 of the MSHCP species-specific burrowing owl objectives states that pre-construction presence/absence surveys for the burrowing owl will be conducted where suitable habitat is present. Surveys will be conducted within 30 days prior to disturbance. If burrowing owls are detected, then passive relocation (use of one-way doors and collapse of burrows) will occur outside the nesting	Within 30-days prior to construction start	Qualified Biologist and City of San Jacinto	Less than significant

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	and Wildlife Service.	season. Take of active nests will be avoided.			
<b>Biological Resources</b>	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service.	<b>MM Bio 2:</b> To reduce impacts associated with temporary construction activities on sensitive species and habitats, Standard Best Management Practices and Construction Guidelines, as outlined in Volume I Appendix C and Section 7.5.3 of the MSHCP, respectively, shall be implemented where technically feasible.	Within 30-days prior to construction start	Qualified Biologist and City of San Jacinto	Less than significant
<b>Cultural Resources</b>	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5 of the <i>CEQA Guidelines</i> .	<b>MM Cultural 1:</b> Although the technical studies completed for the project determined that it was highly unlikely that the project site contains significant archaeological resources, should any unknown cultural and/or archaeological resources be accidentally discovered during construction, construction activities shall be moved to other parts of the project site and a qualified archaeologist shall be contacted to determine the significance of these resources. If the find is determined to be an historical or unique archaeological resource, as defined in Section 15064.5 of the <i>CEQA Guidelines</i> , the City shall enter into a	During Construction	Qualified Archaeologist and City of San Jacinto	Less than significant

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		Treatment and Disposition Agreement (TDA) with Soboba to address treatment and disposition of archaeological and cultural resources and human remains associated with Soboba. Tribal monitors, including those from Soboba, may be allowed to monitor, at such tribe’s sole cost and expense, all grading, excavation, and ground-disturbing activities. Following execution of the TDA by the City and Soboba, the TDA will be incorporated by reference into the construction specifications. Any artifacts collected or recovered shall be cleaned, identified, catalogued, analyzed, and prepared for curation at an appropriate repository with permanent retrievable storage to allow for additional research in the future. Site records or site record updates (as appropriate) shall be prepared and submitted to the Eastern Information Center as a permanent record of the discovery.			
<b>Cultural Resources</b>	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.	<b>MM Cultural 2a:</b> Earth-moving activities encountering soils that are identified as Pleistoceneage or older alluvium, by the representative of the soils engineer, shall be monitored by a qualified paleontological monitor. Continuous paleontological monitoring should be restricted to undisturbed older alluvium, which might be present below the surface. The monitor should be prepared to salvage fossils as they are unearthed to avoid construction delays. The monitor should also remove samples of sediments that are likely to contain the	During construction – Grading activities	Qualified Paleontologic Monitor and City of San Jacinto	Less than significant

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		remains of small fossil invertebrates and vertebrates. The monitor shall have the authority to temporarily halt or divert grading equipment to allow for removal of abundant or large specimens.			
<b>Cultural Resources</b>	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.	<b>MM Cultural 2b:</b> All recovered paleontological specimens shall be prepared and stabilized for identification and permanent preservation, including washing of sediment samples to recover small invertebrates and vertebrates, potentially leading to curation in perpetuity in a facility that meets the standards of the State of California, <i>Guidelines for the Curation of Archaeological Collections</i> (OHP 1993) and 36 CFR 79. Mitigation of adverse impacts to significant paleontologic resources is not complete until the curation process has been fully completed and documented.	During construction – Grading activities	Qualified Paleontologic Monitor and City of San Jacinto	Less than significant
<b>Cultural Resources</b>	The project would disturb any human remains, including those interred outside of formal cemeteries.	N/A	N/A	N/A	N/A
<b>Geology and Soils</b>	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of a known earthquake fault, strong seismic ground shaking,	<b>MM Geo 1:</b> A minimum mandatory removal and replacement of all existing fills and at least the upper 36 inches of existing native soil along the levee alignments shall be completed. The bottom of all sub-excavations shall be observed and approved by the engineering geologist prior to placement of fill to verify the presence of competent material. In addition, any	During Construction – Grading activities	Contractor and City of San Jacinto	Less than significant

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	seismic-related ground failure, including liquefaction, or from being located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse.	unsuitable fills and/or disturbed soils encountered during construction shall be completely removed and cleaned of significant deleterious materials prior to reusing as compacted fill.			
<b>Geology and Soils</b>		<b>MM Geo 2:</b> Due to the shallow water table, free water may exist in localized excavation areas. The need for dewatering in localized areas shall be anticipated during construction. The contractor shall design and install an appropriate dewatering system during construction, if necessary, and the applicable permit from RWQCB shall be obtained.	During Construction – Grading activities	Contractor and City of San Jacinto	Less than significant
<b>Geology and Soils</b>		<b>MM Geo 3:</b> In order to ensure that adequate freeboard is maintained, after a major seismic event the levee top elevations shall be surveyed and the integrity of the concrete liner shall be checked. To ensure that adequate gross stability of the levee embankment is maintained, after major flood episodes the condition of the landside slopes of the concrete liner shall be checked and promptly repaired as necessary.	During Construction – Grading activities	Contractor and City of San Jacinto	Less than significant
<b>Hazards/</b>	In the unlikely event	<b>MM Hazardous 1:</b> If previously unknown	During construction or	Qualified	Less than

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<b>Hazardous Materials</b>	unknown hazardous wastes/materials are encountered during construction, any impacts would be mitigated.	hazardous waste/materials are encountered in the field during construction, ground disturbing activities in the vicinity of the discovery shall cease until a qualified hazardous materials management specialist can assess the potentially hazardous substances and, if necessary, develop appropriate management measures for the treatment and disposal of the materials in accordance with applicable laws and regulations set by the appropriate regulatory agencies.	ground disturbing activities	hazardous materials management specialist	significant
<b>Hydrology and Water Quality</b>	Impacts found to be less than significant without mitigation measures.	N/A	N/A	N/A	N/A
<b>Land Use / Planning</b>	Impacts found to be less than significant without mitigation measures.	N/A	N/A	N/A	N/A
<b>Noise</b>	Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.	<p><b>MM Noise 1:</b> To prevent construction-related noise, including that occurring within the City of San Jacinto and unincorporated Riverside County jurisdictions, from disturbing sensitive receptors during the evening hours, the following restrictions shall be observed in accordance with the City of San Jacinto Municipal Code, Section 8.40.090, A &amp; B, which state:</p> <p>A. Weekdays. No person, while engaged in construction, remodeling, digging, grading, demolition, or any other related building activity, shall operate any tool,</p>	During Construction	Contractor and <del>District</del> City of San Jacinto	Less than significant

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		<p>equipment or machine in a manner that produces loud noise that disturbs a person of normal sensitivity who works or resides in the vicinity, or a peace office, on any weekday except between the hours of 7:30 a.m. and 6:00 p.m.; and</p> <p>B. Weekends and Holidays. No person, while engaged in construction, remodeling, digging, grading, demolition or any other related building activity, shall operate any tool, equipment or machine in a manner that produces loud noise that disturbs a person of normal sensitivity who works or resides in the vicinity, or a peace office, on any weekend day or any federal holiday.</p>			
		<p><b>MM Noise 2:</b> To minimize noise impacts resulting from poorly tuned or improperly modified vehicles and construction equipment, all vehicles and construction equipment shall be maintained in good condition and in proper tune per manufacturers' specifications, to the satisfaction of the <del>District</del> City of San Jacinto. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Maintenance records shall be submitted monthly to the City of San Jacinto. Compliance with this measure shall be subject to periodic inspections by the City of San Jacinto.</p>	<p><u>During construction</u></p>	<p><u>District</u></p>	<p><u>Less than Significant</u></p>

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		<p><b>MM Noise 3:</b> To inform potential sensitive receivers of the pending project construction, the <del>District</del>City of San Jacinto shall:</p> <ul style="list-style-type: none"> <li>a) provide written notification to residents of the Country Lake mobile home parks and two nearby single family residences (or other sensitive receptor(s) at the time of construction) located within 1,400 feet of the project site, 30 days prior to the start of construction. The written notification shall include a tentative construction schedule and contact information for use by the public if specific noise issues arise; and</li> <li>b) prior to commencement of construction, the <del>District</del>City of San Jacinto shall post contact information on the construction site for use by the public in the event specific noise issues arise. The contact information shall remain in place until construction is complete.</li> </ul>	<p><u>During construction</u></p>	<p><u>Contractor and District</u></p>	<p><u>Less than Significant</u></p>
		<p><b>MM Noise 4:</b> To reduce noise impacts associated with temporary diesel- or gasoline-powered generators, and where a portable diesel- or gas-powered generator is necessary, it shall have maximum noise muffling capacity and be located as far as technically feasible from noise sensitive uses.</p>	<p><u>During construction</u></p>	<p><u>Contractor and District</u></p>	<p><u>Less than significant</u></p>

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		<b>MM Noise 5:</b> To minimize or eliminate motor-derived noise from construction equipment, contractors shall utilize construction equipment that is either propane- or electric-powered, when technically feasible.	<u>During construction</u>	<u>Contractor and District</u>	<u>Less than significant</u>
		<b>MM Noise 6:</b> To minimize or eliminate noise from portable compressors, generators, and other such equipment, this equipment shall be covered, to the extent that it is technically feasible, with noise-insulating fabric that does not interfere with the manufacturer’s guidelines for engine or exhaust operation	<u>During construction</u>	<u>Contractor and District</u>	<u>Less than significant</u>
		<b>MM Noise 7:</b> To minimize noise from idling engines, all vehicles and construction equipment shall be prohibited from idling in excess of five minutes, when not in use.	<u>During construction</u>	<u>Contractor and District</u>	<u>Less than significant</u>
		<b>MM Noise 8:</b> Temporary noise control barriers (e.g., plywood walls, noise curtains/blankets) shall be utilized to reduce noise impacts when construction takes place near existing residences including two single family residences and the Country Lake Mobile Home Community park, towards the southern end of the project’s alignment. To be effective, the barrier/curtain must be located at the top of the highest point between the noise source and receptor, must physically fit in the available space, must completely break the line-of-sight between the noise source and the receptors, must be free of degrading holes or gaps, and must not be flanked by nearby reflective surfaces.	<u>During construction</u>	<u>Contractor and District</u>	<u>Less than significant</u>

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		Noise barriers must be sizable enough to cover the entire noise source, and extend length-wise and vertically as far as feasibly possible to be most effective. If necessary and technically feasible, noise barriers should be tall enough to provide noise reduction for the upper-most stories of nearby sensitive receptors, though this may not always be achievable with abutting multi-story buildings.			
<b>Population / Housing</b>	Induce substantial population growth in an area, either directly or indirectly.	No feasible mitigation exists to reduce or eliminate potential growth inducing impacts	N/A	N/A	Significant – requires Statement of Overriding Considerations
<b>Transportation/ Traffic</b>	Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system or exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways.	N/A	N/A	N/A	N/A