

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) was formulated based on the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Orange County Loop Carbon Creek Channel Bikeway Gap Closure Segment D project. This MMRP includes mitigation measures (MMs) and applicable standard conditions (SC) cited in the IS/MND. This MMRP is also in compliance with Section 15097 of the California Environmental Quality Act (CEQA) Guidelines, which requires that the Lead Agency “adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects.”

Measure No.	Mitigation Measure/Condition of Approval	Monitoring and Reporting Process	Monitoring Milestone	Party Responsible for Monitoring
AQ-1 (SC)	<p>The following measures from the South Coast Air Quality Management District (SCAQMD) Rule 403 are required for fugitive dust suppression:</p> <ul style="list-style-type: none"> • Water active sites at least twice daily (locations where grading is to occur will be thoroughly watered prior to earthmoving). • All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least 2 feet (ft) of freeboard in accordance with the requirements of California Vehicle Code (CVC) Section 23114 (freeboard refers to vertical space between the top of the load and the top of the trailer). • Traffic speeds on all unpaved roads shall be reduced to 15 miles per hour or less. 	Construction contractor during all site disturbance activity	Final Project Specification and notes on plans	OC Contract Manager
AQ-2 (SC)	<p>The following measures from the SCAQMD Handbook are required for fugitive dust suppression:</p> <ul style="list-style-type: none"> • Revegetate disturbed areas as quickly as possible. • All streets shall be swept once per day if visible soil materials are carried to adjacent streets (recommend water sweepers with reclaimed water). • Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash trucks and any equipment leaving the site each trip. • All on-site roads shall be paved as soon as feasible, watered periodically, or chemically stabilized. • The area disturbed by clearing, grading, earthmoving, or excavation operations shall be minimized at all times. • The construction contractor shall select the construction equipment used on site based on low emission factors and high-energy efficiency. The construction contractor shall ensure that construction-grading plans include a statement that all construction equipment will be tuned and maintained in 	Construction contractor during all site disturbance activity	Final Project Specification and notes on plans	OC Contract Manager

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	<p>accordance with the manufacturers' specifications.</p> <ul style="list-style-type: none"> • The construction contractor shall utilize electric or diesel-powered equipment in lieu of gasoline powered engines where feasible. • The construction contractor shall ensure that construction plans include a statement that work crews will shut off equipment when not in use. During smog season (May through October), the overall length of the construction period will be extended, thereby decreasing the size of the area prepared each day, to minimize vehicles and equipment operating at the same time. • The construction contractor shall time the construction activities so as to not interfere with peak hour traffic and minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flagperson shall be retained to maintain safety adjacent to existing roadways. • The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew. 			
CR-1	<p>Prior to the start of construction and in the event that the geotechnical borings required in MM GEO-1 reveal there is native soil that will be impacted by excavation and construction activities of either alignment, the Paleontological Resources Impact Mitigation Program (PRIMP) enumerated below shall be required.</p> <p>Paleontological Resources Impact Mitigation Program (PRIMP). If the construction plans require excavation that will impact native soil as determined by soil borings or as indicated by original construction plans, or excavation occurs below a depth of 10 feet (ft) below the existing ground surface, a qualified paleontologist shall be retained by the County to develop a PRIMP for this project. The PRIMP shall include the methods that will be used to protect paleontological resources that may exist within the project area, as well as procedures and activities for monitoring, fossil preparation and identification, curation into a repository, and preparation of a</p>	Contractor during excavation 10 feet or more below ground surface	Prior to final design	OC Contract Manager for Final Design

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	<p>report at the conclusion of grading as follows:</p> <ol style="list-style-type: none"> 1. Excavation and grading activities in deposits with high paleontological sensitivity (Young Alluvial Fan Deposits beginning at a depth of 10 ft below the existing ground surface) shall be monitored by a paleontological monitor. No monitoring is required for excavations in rocks with no or low paleontological sensitivity (Artificial Fill or the Young Alluvial Fan Deposits from the surface to a depth of 10 ft). 2. If paleontological resources are encountered during the excavation and grading activities, the paleontological monitor shall have the authority to temporarily redirect construction away from the area of the find in order to assess its significance. 3. In the event that paleontological resources are encountered when a paleontological monitor is not present, work in the immediate area of the find shall be redirected and a paleontologist should be contacted to assess the find for significance. If determined to be significant, the fossil shall be collected from the field. 4. Collected resources shall be prepared to the point of identification, identified to the lowest taxonomic level possible, cataloged, and curated into the permanent collections of a scientific institution. 5. At the conclusion of the monitoring program, a report of findings shall be prepared to document the results of the monitoring program. 			
CR-2 (SC)	If human remains are unearthed, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County	Grading/Excavation	Grading/Excavation	OC Public Works – Senior Project Manager

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	<p>Coroner must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.</p>			
GEO-1	<p>Prior to final design, the County Contract Manager shall have prepared a Geotechnical Report and conduct borings as part of a geotechnical investigation, for review and approval by the County of Orange Construction Manager. The Geotechnical Report shall include the information and be in the format as required by the County's Grading Manual.</p>	Construction Contract Management	Prior to final design	OC Contract Manager for Final Design
WQ-1 (SC)	<p>Construction General Permit. Prior to issuance of the construction contract, the County Contract Manager shall obtain coverage for the project under the State Water Resources Control Board National Pollutant Discharge Elimination System General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System No. CAS000002) (Construction General Permit). This shall include submission of Permit Registration Documents (PRDs), including a Notice of Intent (NOI) for coverage under the permit to the State Water Resources Control Board (SWRCB). A Storm Water Pollution Prevention Plan (SWPPP) shall be prepared and implemented for the project in compliance with the requirements of the Construction General Permit. The SWPPP shall identify construction Best Management Practices (BMPs) to be implemented to ensure that the potential for soil erosion and sedimentation is minimized and to control the discharge of pollutants in storm water runoff as a result of construction activities.</p>	Construction Contract Management	Prior to issuance of the construction contract	OC Public Works – Contract Manager

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WQ-2	<p>Operational Best Management Practices. Prior to issuance of the construction contract, the County Contract Manager shall ensure that operational Best Management Practices are incorporated into the final project design. The proposed BMPs shall include, but not be limited to, biofiltration strips, biofiltration swales, pervious pavement, and/or biofiltration devices with underdrains. The BMPs shall be designed to reduce storm water runoff to at or below existing conditions. If the project is determined to be a Priority Project, a Final Water Quality Management Plan (WQMP) shall be prepared consistent with the Orange County Municipal Separate Storm Sewer System (MS4) Permit, Drainage Area Management Plan, Model WQMP, and Technical Guidance Document. The Final WQMP shall specify BMPs to be incorporated into the design of the project.</p>	Construction Contract Management	Prior to issuance of the construction contract	OC Public Works – Contract Manager
TR-1	<p>At such time when the City of La Habra or the future responsible entity endeavors to address the substandard function of the intersection of Imperial Highway and Rose Drive, the County of Orange shall assist the project lead agency in addressing the issue including, but not limited to, redesigning this portion of the bicycle trail. In the event that Alignment D-1 is operational, it is possible that Alignment D-2 could be eliminated in favor of vehicular intersection improvements. These decisions will be negotiated with the County of Orange at such time when intersection improvements are being conceptualized.</p>	CMP Intersection Monitoring	At the time that the Rose Dive and Imperial Highway intersection is improved due to poor functionality (LOS F).	Director, OC Public Works in consultation with OC Parks Manager