

3.0 Mitigation Monitoring and Reporting Program

3.1 Introduction

Pursuant to the requirements of Public Resources Code Section 21081.6, when a governmental agency adopts findings committing itself to mitigation measures after preparation of an environmental impact report, the public agency shall also adopt a reporting or monitoring program for the changes made to the project or conditions of project approval that mitigate or avoid significant effects on the environment. The program shall be designed to ensure compliance during project implementation.

The MMRP discussed in this section has been prepared to meet these requirements for preparing an MMRP to provide for the monitoring of the mitigation measures required for the proposed Project. The MMRP is derived from the mitigation measures listed in the Draft EIR.

3.2 DPW Responsibility

DPW will be responsible for the monitoring, performance, and effectiveness of the mitigation measures proposed for development and operation of the Project. DPW will manage the mitigation monitoring program relative to any additional measures that may be required by discretionary actions taken by the California Department of Fish and Game (CDFG), California Regional Water Quality Control Board (RWQCB), the U.S. Army Corps of Engineers (USACE), and other agencies. In addition, DPW will be responsible for documenting that the required mitigation measures are implemented.

3.3 MMRP Process

Commencing upon Project approval, Project-specific mitigation measures will be implemented and monitoring activities will be performed to document compliance with the requirements for mitigation. Monitoring is an ongoing process of Project oversight and will continue throughout implementation of the Project, including design, construction, and subsequent operation. The MMRP identifies the mitigation measures and reporting requirements, monitoring time frame, specific compliance criteria, and reporting mechanism. Compliance criteria include monitoring frequency, identification of the monitoring agency, and a list of any agencies that should receive periodic activity reports.

3.4 MMRP Organization

The following components are included in a matrix format:

- **Mitigation Measures:** Mitigation measures are identified by number code and correspond to the mitigation number code used in the Draft EIR.
- **Mitigation Compliance Purpose:** Describes the type of impact that each mitigation measure applies to.
- **Monitoring and Reporting Actions:** An outline of the appropriate monitoring and reporting actions required to verify implementation of the mitigation measure.

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- **Monitoring Phase:** Identifies the schedule for conducting each mitigation measure monitoring and reporting requirement.
- **Monitoring Agency and Enforcement Agency:** The agency or agencies involved with the review and approval of actions required to implement the mitigation measure and to ensure compliance with the requirements for mitigation.

The MMRP for the proposed Project is presented in Table 1. Mitigation measures and mitigation monitoring are required only for those resource areas for which potential significant environmental impacts have been identified in the Draft EIR. For the proposed Project, this includes air quality, biological resources, geology and soils, hydrology and water quality, and noise.

3.5 Public Access to Records

The public will have access to all records and reports used to track the monitoring programs by DPW. DPW will develop a comprehensive filing and tracking system to ensure that all monitoring aspects of the Project are complied with during the life of the Project.

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TABLE 1
 Mitigation Monitoring and Reporting Program (MMRP)
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Mitigation Measures	Mitigation Compliance Purpose	Monitoring and Reporting Actions	Monitoring Phase (Schedule)	Monitoring Agency/ Enforcement Agency
AIR QUALITY				
<p>Mitigation Measure AQ-1: Air Quality</p> <p>The following control measures shall be implemented during construction of the proposed Project to minimize fugitive dust emissions:</p> <ul style="list-style-type: none"> • The area disturbed by clearing, grading, earth moving, or excavation operations shall be as small as feasible to prevent excess dust. • Pregrading/excavation activities shall include watering the area to be graded or excavated before commencement of grading or excavation. Application of water (reclaimed, if available) must penetrate sufficiently to minimize fugitive dust during grading activities. • Trucks are required to have their loads covered as required by the SCAQMD. • Graded and excavated material, exposed soil areas, and active portions of the construction site, including unpaved onsite roadways, shall be treated to prevent fugitive dust. Treatment shall include, but not be limited to, periodic watering, application of environmentally safe soil stabilization materials, and/or roll compaction as appropriate. Watering shall be done at least twice daily. • Inactive graded and/or excavated areas shall be monitored at least weekly for dust stabilization. Soil stabilization methods, such as water and roll compaction and application of environmentally safe dust control materials, shall be periodically implemented over portions of the construction site that are inactive for over 4 days. • Signs shall be posted to limit traffic to 15 mph or less. 	<p>Construction emissions would result in an exceedance of the SCAQMD significance criteria for PM₁₀.</p>	<p>DPW will observe Project construction activities to verify implementation of control measures for fugitive dust emissions.</p> <p>DPW will record observations in field monitoring notes.</p>	<p>During construction</p>	<p>Monitoring Agency: DPW</p> <p>Enforcement Agency: SCAQMD</p>

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Mitigation Measures	Mitigation Compliance Purpose	Monitoring and Reporting Actions	Monitoring Phase (Schedule)	Monitoring Agency/ Enforcement Agency
<ul style="list-style-type: none"> • During periods of high winds (i.e., wind speed sufficient to cause fugitive dust to impact adjacent properties), clearing, grading, earth moving, and excavation operations shall be curtailed to the degree necessary to prevent fugitive dust created by onsite activities and operations from being a nuisance or hazard to offsite properties. • Adjacent streets and roads shall be swept at least once per day, preferably at the end of the day, if visible soil material is carried over to adjacent streets and roads. 				
BIOLOGICAL RESOURCES				
<p>Mitigation Measure BR-1: Biological Resources</p> <p>A worker awareness handout shall be provided to all onsite personnel. The handout shall specify sensitive biological resources, protection measures, and individual responsibilities. The handout shall also identify appropriate contact procedures and personnel information should sensitive biological resources be encountered.</p>	The loss of sensitive biological resources resulting from construction activities.	DPW to maintain a signature list to be signed by all onsite personnel confirming receipt and understanding of the worker awareness handout.	During construction	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>CDFG, DPW</p>
<p>Mitigation Measure BR-2: Biological Resources</p> <p>Vegetation shall not be cleared until June 15 (if feasible) when the young have fledged the nest, to avoid impacts to breeding birds. This will serve to avoid impacts to all breeding birds, including special-status birds such as Cooper’s hawk or yellow warbler.</p>	Impacts to breeding birds, including special-status birds, from construction activities.	<p>DPW will monitor compliance.</p> <p>DPW will record compliance in field monitoring notes.</p>	During construction	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>CDFG, USFWS</p>

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<p>Mitigation Measure BR-3: Biological Resources</p> <p>To ensure that there are no impacts to special-status species, rare plant surveys of the affected area shall be conducted prior to initiation of construction activities. If rare plants are identified Project activities shall be conducted so as to avoid impacts to the extent such avoidance is feasible. If Project activities cannot be conducted to avoid impacts to rare plants, such impacts shall be minimized or mitigated through plant relocation (if feasible) or topsoil and seed bank protection.</p>	<p>The loss of populations of special-status plants, if present, resulting from construction activities.</p>	<p>DPW will complete rare plant surveys, and monitor avoidance, minimization, and mitigation measures.</p> <p>DPW will report the findings of rare plant surveys in a field survey report. DPW will record compliance with measures in field monitoring notes.</p>	<p>Prior to construction and during construction</p>	<p>Monitoring Agency: DPW</p> <p>Enforcement Agency: CDFG</p>
<p>Mitigation Measure BR-4: Biological Resources</p> <p>Preconstruction surveys for burrowing owls shall be conducted according to California Department of Fish and Game requirements to determine whether any habitat in construction areas is occupied by burrowing owls. If burrowing owls are identified during the preconstruction surveys, construction activities shall not occur within 150 feet of active burrowing owl nest burrows during non-breeding season or within 250 feet during breeding season (February 1 through August 31), if feasible. If construction cannot be restricted as described above, passive relocation shall occur.</p>	<p>Impacts to burrowing owl, a California and federal species of concern, from construction activities.</p>	<p>DPW will complete burrowing owl surveys, and monitor avoidance, minimization, and mitigation measures.</p> <p>DPW will report the findings of burrowing owl surveys in a field survey report. DPW will record compliance with measures in field monitoring notes.</p>	<p>Prior to construction and during construction</p>	<p>Monitoring Agency: DPW</p> <p>Enforcement Agency: CDFG</p>

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<p>Mitigation Measure BR-5: Biological Resources</p> <p>To minimize potential impacts to areas used as forage by migratory birds and raptors, the following measures will be implemented:</p> <ul style="list-style-type: none"> • Infrastructure design including trail and lighting must be sited in previously disturbed areas, when feasible. • Safety lighting must be directional or pointed downward to reduce effects on wildlife. • Implement Mitigation Measure BR-2. 	<p>To minimize impacts to foraging or migratory birds regulated under the federal Migratory Bird Treaty Act and other state regulations, resulting from construction activities.</p>	<p>DPW will monitor compliance.</p> <p>DPW will record compliance in field monitoring notes.</p>	<p>During construction and operation</p>	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>CDFG, USFWS</p>
GEOLOGY AND SOILS				
<p>Mitigation Measure GS-1: Geology and Soils</p> <p>At least one of the following measures to control soil erosion or loss of topsoil will be implemented:</p> <ul style="list-style-type: none"> • The area disturbed by clearing, grading, earth moving, or excavation operations shall be as small as feasible to prevent excessive dust. • Pregrading/excavation activities shall include watering the area to be graded or excavated before commencement of grading or excavation. Application of water must penetrate sufficiently to minimize fugitive dust during grading activities. • Trucks are required to have their loads covered going offsite. • Graded and excavated material, exposed soil areas, and active portions of the construction site, including unpaved onsite roadways, must be treated to prevent fugitive dust. Treatment shall include, but not be limited to, periodic watering and/or roll compaction as appropriate. Watering shall be done at least twice daily. 	<p>The temporary creation of areas of exposed soils could temporarily result in soil erosion or loss of topsoil.</p>	<p>DPW will observe Project construction activities to verify implementation of control measures for soil erosion or loss of topsoil.</p> <p>DPW will record observations in field monitoring notes.</p>	<p>During construction</p>	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>SCAQMD</p>

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<ul style="list-style-type: none"> • Inactive graded and/or excavated areas shall be monitored at least weekly for dust stabilization. Soil stabilization methods, such as water and roll compaction, shall be implemented periodically over portions of the construction site that are inactive for over 4 days. • During periods of high winds (i.e., wind speed sufficient to cause fugitive dust to impact adjacent properties), clearing, grading, earth-moving, and excavation operations shall be curtailed to the degree necessary to prevent fugitive dust created by onsite activities and operations from being a nuisance or hazard to offsite properties. • Adjacent streets and roads shall be swept at least once per day, preferably at the end of the day, if visible soil material is carried over to adjacent streets and roads. 				
HYDROLOGY and WATER QUALITY				
<p>Mitigation Measure W-1: Hydrology and Water Quality</p> <p>Prior to the initiation of ground disturbing activity, DPW (or its designee) shall obtain Project approval from the State Water Resources Control Board (SWRCB) under the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Storm Water Associated with Construction Activity (General Permit). This includes submitting a Notice of Intent (NOI) to the SWRCB and developing and implementing a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP shall identify the potential sources of sediment and other pollutants that may affect the quality of stormwater discharge, and shall specify Best Management Practices (BMPs) to prevent or minimize the introduction of sediment and pollutants into surface waters from the Project site. BMP methods of erosion and sediment control may include straw bales, silt fences, and other control techniques. Monitoring and maintenance requirements shall be specified in the SWPPP.</p>	<p>Changes in topography and the presence of excavated and/or unprotected soil could affect stormwater runoff.</p>	<p>DPW will observe Project construction activities to verify implementation of BMPs and compliance with monitoring requirements set forth by RWQCB in the General Permit and SWPPP.</p> <p>DPW will record observations in field monitoring notes.</p>	<p>During construction</p>	<p>Monitoring Agency: DPW</p> <p>Enforcement Agency: RWQCB</p>

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<p>Mitigation Measure W-2: Hydrology and Water Quality</p> <p>Prior to the initiation of activities within the bed and bank of the Los Angeles River, DPW (or its designee) shall obtain Project approval from the RWQCB (401 Water Quality Certification); CDFG (1600 Streambed Alteration Agreement); and USACE (404 Permit). These Project approvals shall specify potential sources of sediment and other pollutants that may affect the quality of the River, and shall specify BMPs to prevent or minimize the introduction of sediment and pollutants into surface waters of the River. BMP methods of erosion and sediment control may include straw bales, silt fences, and other control techniques. Monitoring and maintenance requirements shall be specified in these Project approvals. Vehicle maintenance and fueling shall be restricted from areas within 50 feet of the bank of the river. Following construction within the river, the bed of the river must be returned to existing grade.</p>	Construction activities occurring within the river may cause sediment to be washed into surface waters of the U.S. which could impact water quality.	DPW will prepare a complete permit submittal package for distribution to resource agencies, and will comply with mitigation and monitoring requirements set forth by the resource agencies.	As specified by permit agreements with resource agencies	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>USACE</p> <p>CDFG</p> <p>RWQCB</p>
NOISE				
<p>Mitigation Measure N-1: Noise</p> <p>To minimize the adverse effects of construction noise on normal activities of residents in the vicinity of the proposed Project, temporary noise barriers consisting of acoustical curtains must be used along the west side of work areas, as needed.</p>	Construction noise on normal activities of residents in the vicinity of the proposed Project.	<p>DPW will verify implementation of temporary noise barriers.</p> <p>DPW will record implementation of noise barriers in field monitoring notes.</p>	During construction	<p>Monitoring Agency:</p> <p>DPW</p> <p>Enforcement Agency:</p> <p>City of Long Beach</p>

Notes:

BMP = Best Management Practice
CDFG = California Department of Fish and Game
DPW = County of Los Angeles Department of Public Works
NPDES = National Pollutant Discharge Elimination System
PM₁₀ = particulate matter with a diameter of 10 micrometers or less
RWQCB = California Regional Water Quality Control Board

SCAQMD = South Coast Air Quality Management District
SWPPP = Storm Water Pollution Prevention Plan
SWRCB = State Water Resources Control Board
USACE = U.S. Army Corps of Engineers
USFWS = U.S. Fish and Wildlife Service

4.0 References

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