



MITIGATION MONITORING AND REPORTING PROGRAM

CEQA requires that when a public agency completes an environmental document which includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring plan. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring plan must be designed to ensure compliance during project implementation (*Public Resources Code* Section 21081.6).

In compliance with *Public Resources Code* Section 21081.6, this Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the proposed Long Beach Cruise Terminal Improvement Project. The MMRP is intended to provide verification that all mitigation measures identified in the Recirculated Draft IS/MND prepared for the project are monitored and reported. Monitoring will include 1) verification that each mitigation measure has been implemented; 2) recordation of the actions taken to implement each mitigation; and 3) retention of records in the project file.

This MMRP delineates responsibilities for monitoring the project, but also allows the City of Long Beach flexibility and discretion in determining how best to monitor implementation. Monitoring procedures will vary according to the type of mitigation measure. Adequate monitoring consists of demonstrating that monitoring procedures took place and that mitigation measures were implemented.

Reporting consists of establishing a record that a mitigation measure is being implemented, and generally involves the following steps:

- The City distributes reporting forms to the appropriate entities for verification of compliance.
- Departments/agencies with reporting responsibilities will review the Initial Study, which provides general background information on the reasons for including specified mitigation measures.
- Problems or exceptions to compliance will be addressed to the City as appropriate.
- Periodic meetings may be held during project implementation to report on compliance of mitigation measures.
- Responsible parties provide the City with verification that monitoring has been conducted and ensure, as applicable, that mitigation measures have been implemented. Monitoring compliance may be documented through existing review and approval programs such as field inspection reports and plan review.
- The City prepares a reporting form periodically during the construction phase and an annual report summarizing all project mitigation monitoring efforts.
- Appropriate mitigation measures will be included in construction documents and/or conditions of permits/approvals.

Minor changes to the MMRP, if required, would be made in accordance with CEQA and would be permitted after further review and approval by the City. Such changes could include reassignment of monitoring and reporting responsibilities, plan redesign to make any appropriate improvements, and/or modification, substitution or deletion of mitigation measures subject to conditions described in *CEQA Guidelines* Section 15162. No change will be permitted unless the MMRP continues to satisfy the requirements of *Public Resources Code* Section 21081.6.



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MITIGATION MONITORING AND REPORTING CHECKLIST

Mitigation Number	Mitigation Measure	Monitoring and Reporting Process	Monitoring Milestones	Party Responsible for Monitoring	VERIFICATION OF COMPLIANCE		
					Initials	Date	Remarks
AIR QUALITY							
AQ-1	<p>Prior to issuance of a Demolition or Grading Permit, the City Engineer shall confirm that the following Best Management Practices (BMPs) are included in the Grading Plan and specifications to reduce construction emissions in accordance with the Port of Long Beach's Air Quality Best Management Practices for Construction Activities:</p> <ul style="list-style-type: none">Off-road Engine Tier: Construction terrestrial off-road equipment shall be required to meet final Tier 4 emissions standards.Electric Dredges: Dredging equipment shall be powered electrically by a shore power connection.Construction Tug Boat Engine Tier: If appropriately sized and available, tug boats with Tier 3 or higher engines shall be used during construction. At a minimum, all tug boat engines shall meet Tier 2 emissions standards.	Review of Project Plans and Specifications; Construction Inspections	Prior to Issuance of a Demolition or Grading Permit; During Construction	City of Long Beach City Engineer			
AQ-2	<p>Prior to approval of project plans, the Applicant shall provide proof to the City of Long Beach Development Services of a written commitment from a qualified seller/lessee detailing the purchase or lease of unencumbered Emission Reduction Credits sufficient to reduce the project's</p>	Review of Written Commitment	Prior to Approval of Project Plans	City of Long Beach Development Services			



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	construction-related nitrous oxide (NOx) emissions to below the South Coast Air Quality Management District's threshold of 100 pounds per day for the duration of proposed dredging activities.						
BIOLOGICAL RESOURCES							
BIO-1	During pile driving activities, the construction contractor shall utilize a "soft start" initiation of the pile driving equipment to give nearby birds a chance to vacate the immediate construction area before full-force pile driving is initiated. The "soft start" initiation shall consist of an initial set of strikes at reduced energy followed by a one-minute idling period to allow wildlife to move out of the area.	Construction Inspection	During Pile Driving Activities	City of Long Beach City Engineer			
BIO-2	The project applicant shall retain a qualified biological monitor (defined as an individual with the minimum qualifications of a Bachelor of Science Degree or Bachelor of Arts Degree in biology or related environmental science with a demonstrated familiarity with the natural history, habitat affinities, identification of marine species, and other laws and regulations governing the take of marine species and also approved by the City of Long Beach) to be present during all in-water work and pile driving and dredging activities, to verify that marine mammals and green sea turtle (<i>Chelonia mydas</i>) are not present within the construction area. Should marine mammals or green sea turtles be observed, the biological monitor shall have the flexibility and power to exercise Stop Work Authority in determining whether construction activities can continue or halt until the marine animal(s) swim far enough away, as determined by	Review of Project Plans; Construction Inspections	During Plan Check Review; During Construction	City of Long Beach Development Services			



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BIO-3	<p>the biological monitor, from the construction area.</p> <p>If ground-disturbing activities or removal of any trees, shrubs, or any other potential nesting habitat are scheduled within the avian nesting season (generally from March 1 through August 31 for passerines and January 1 through August 31 for raptors), a pre-construction clearance survey for nesting birds shall be conducted within three days prior to any ground disturbing activities.</p> <p>The qualified biologist conducting the clearance survey shall document the negative results if no active bird nests are observed on the project site or within the vicinity during the clearance survey with a brief letter report indicating that no impacts to active bird nests would occur before construction can proceed. If an active avian nest is discovered during the pre-construction clearance survey, construction activities shall stay outside of a 300-foot buffer around the active nest. For raptor species, this buffer shall be 500 feet. A biological monitor shall have the flexibility in delineating the boundaries of the buffer area and be present to monitor the active nest to ensure nesting behavior is not adversely affected by construction activities. Results of the pre-construction survey and any subsequent monitoring shall be provided to the California Department of Fish and Wildlife (CDFW) and other appropriate agencies.</p>	<p>Completion of Pre-Construction Nesting Birds Clearance Survey</p>	<p>Within 3 Days Prior to Initiation of Ground Disturbing Activities</p>	<p>City of Long Beach Development Services Department; Project Biologist</p>			
NOISE							
N-1	<p>Prior to issuance of Pile Driving or Dredging Permits, the applicant shall prepare a Construction Noise Control Plan, to the satisfaction of the City of</p>	<p>Review of Project Plans and Specifications;</p>	<p>Prior to Issuance of Pile Driving or Dredging</p>	<p>City of Long Beach City Engineer</p>			



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	<p>Long Beach City Engineer, to minimize noise levels at off-site uses during construction activities. The Construction Noise Control Plan shall include:</p> <ul style="list-style-type: none"> A vibratory hammer (versus a pile driver) shall be used during construction to partially install steel pipe piles, while an impact pile driver will be used to proof the piles and set them to their final depth. Vibratory hammers are frequently employed as a mitigation measure to reduce environmental impacts on aquatic wildlife since they generally produce noise levels 10 to 20 dB lower than impact pile drivers (Buehler et al. 2015). A qualified marine mammal biological monitor shall be present during dredging and pile driving portions of construction. Pile driving shall only occur 45 minutes after sunrise to 45 minutes before sunset which allows biological monitors time to complete their pre- and post-construction surveys. A "soft start" shall be conducted prior to the initiation of full-power pile driving at the beginning of each day or following a 30 minute or longer break in pile driving, to warn any marine mammals to move away from the construction area. This shall involve an initial set of strikes at reduced 	Construction Inspections	Permits; During Construction				



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	<p>energy followed by a 1-minute waiting period (to allow wildlife to move out of the area).</p> <ul style="list-style-type: none"> Bubble curtains shall be implemented in association with pile driving. Use of an air bubble curtain can generally reduce sound pressure levels by 5-10 dB, with higher effectiveness at higher sound levels (Buehler et al. 2015). Number of piles installed per day shall be limited to five. Heavy equipment, such as dredges, operating from barges or nearshore shall be idled for 15 minutes prior to full-force power. Low noise equipment shall be utilized for garage construction where feasible. The contractor shall work to make sure that construction motorized equipment is well tuned, in a state of good repair, and appropriate effective mufflers shall be utilized on all gasoline or diesel-powered construction equipment. 						
TRIBAL CULTURAL RESOURCES							
TCR-1	If evidence of subsurface tribal cultural resources is found during construction, all activity within 50 feet of the find shall cease and the construction contractor shall contact the City of Long Beach Development Services Department. With direction	Construction Inspection	During Construction	City of Long Beach Development Services Department; Project Archaeologist			



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	from the Development Services Department, an archaeologist certified by the County of Los Angeles shall be retained to evaluate the discovery prior to resuming grading in the immediate vicinity of the find. If warranted, the archaeologist shall collect the resource and prepare a technical report describing the results of the investigation. The test-level report shall evaluate the site including discussion of significance (depth, nature, condition, and extent of the resources), final mitigation recommendations, and cost estimates.						