

FINAL

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

Naples Seawall

Interim and Long Range Repair Project

Prepared for:
City of Long Beach

Prepared By:
RBF Consulting

March 2010

JN 10-106836-16109

FINAL
INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

**Naples Seawall Interim and Long Range
Repair Project**

LEAD AGENCY:

City of Long Beach
333 West Ocean Boulevard
Long Beach, California 90802
Contact: Mr. Mark Christoffels
562.570.6771

PREPARED BY:

RBF Consulting
14725 Alton Parkway
Irvine, California 92618
Contact: Mr. Glenn Lajoie, AICP
Mr. Eddie Torres, INCE
949.472.3505

March 2010

JN 10-106836

TABLE OF CONTENTS

	<u>PAGE #</u>
1.0 INTRODUCTION	1
2.0 RESPONSES TO COMMENTS	2
3.0 MITIGATION MONITORING AND REPORTING INTRODUCTION	10
4.0 MITIGATION MONITORING AND REPORTING PLAN	11



1.0 INTRODUCTION

The Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared pursuant to the requirements of the California Environmental Quality Act (CEQA) (see Public Resources Code Sections 21000-21177), as well as the State CEQA Guidelines (see Title 14 of the California Code of Regulations, Sections 15063). The IS/MND was made available for public review and comment pursuant to State CEQA Guidelines Section 15070. The public review period commenced on January 26, 2010, and expired on February 24, 2010. The IS/MND and supporting attachments were available for review by the general public at the following locations:

- City of Long Beach, Public Works Records, City Hall, 333 West Ocean Boulevard, 10th Floor, Long Beach, CA 90802; and
- Long Beach Public Library and Information Center, 101 Pacific Avenue, Long Beach, CA 90822.



2.0 RESPONSE TO COMMENTS

During the public review period, comments were received on the IS/MND from certain interested public agencies and private parties. The following is a list of the persons, firms, or agencies that submitted comments on the IS/MND during the public review period:

Comment Letter No.	Person, Firm, or Agency	Letter Dated	Letter Received
1	Scott Morgan, Acting Director, State Clearinghouse, State of California Office of Planning and Research	February 25, 2010	February 25, 2010
2	Elmer Alvarez, IGR/CEQA Branch Chief, California Department of Transportation, District 7, Regional Planning	February 8, 2010	February 11, 2010

Although the State CEQA Guidelines do not require a Lead Agency to prepare written responses to comments received, as contrasted with a Draft Environmental Impact Report (see State CEQA Guidelines Section 15088), the City has elected to prepare the following written responses with the intent of conducting a comprehensive and meaningful evaluation of the proposed project.

The number designations in the responses are correlated to the bracketed and identified portions of each comment letter.



ARNOLD SCHWARZENEGGER
GOVERNOR

February 25, 2010

STATE OF CALIFORNIA
GOVERNOR'S OFFICE of PLANNING AND RESEARCH
STATE CLEARINGHOUSE AND PLANNING UNIT



CYNTHIA BRYANT
DIRECTOR

Mark Christoffels
City of Long Beach
333 W. Ocean Boulevard
Long Beach, CA 90802

Subject: Naples Seawall Interim and Long Range Repair Project
SCH#: 2010011073

Dear Mark Christoffels:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on February 24, 2010, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

"A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,

Scott Morgan
Acting Director, State Clearinghouse

Enclosures
cc: Resources Agency

1.1

**Document Details Report
State Clearinghouse Data Base**

SCH# 2010011073
Project Title Naples Seawall Interim and Long Range Repair Project
Lead Agency Long Beach, City of

Type MND Mitigated Negative Declaration

Description The intent of the project is to identify viable options for the stabilization of the seawall in its present deteriorating state and extend the life of the seawalls. An investigation of the distressed concrete sheet pile seawall, was performed to analyze its stability, and develop repair concepts. Engineers have assessed the various factors contributing to the seawall's horizontal, vertical, and rotational displacements from the original constructed positions. Interim as well as long range have been recommended. Interim repairs would consist of sinkhole repairs (gravel filled bag system beneath sinkholes), a tieback system (grouted rods to relieve stress), and scour repairs (underwater rock protection). Since the existing seawalls are currently 70 years old, a replacement program (long range repairs) was also recommended. Long range repairs would include the option of waterside or landside repairs.

Lead Agency Contact

Name Mark Christoffels
Agency City of Long Beach
Phone 562-570-6771
email
Address 333 W. Ocean Boulevard
City Long Beach
State CA **Zip** 90802
Fax

Project Location

County Los Angeles
City Long Beach
Region
Lat / Long 33° 45' 15.91" N / 118° 7' 33.50" W
Cross Streets The Toledo and Rivo Alto Canal
Parcel No.
Township 5S **Range** 12W **Section** **Base** SBB&M

Proximity to:

Highways
Airports
Railways Yes
Waterways Alamitos Bay, Los Cerritos Channel, San Gabriel River, Anaheim Bay, Pacific Ocean
Schools Yes
Land Use GP: District No. 1 (Single Family)
Z: R-1-S (Single Family Residential, small lot) and R-4-N (Medium Density Multiple Residential)

Project Issues Aesthetic/Visual; Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Coastal Zone; Cumulative Effects; Drainage/Absorption; Flood Plain/Flooding; Forest Land/Fire Hazard; Geologic/Seismic; Growth Inducing; Landuse; Minerals; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Schools/Universities; Septic System; Sewer Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Wetland/Riparian; Wildlife

Reviewing Agencies Resources Agency; Department of Boating and Waterways; California Coastal Commission; Department of Conservation; Department of Fish and Game, Region 5; Office of Historic Preservation; Department of Parks and Recreation; Department of Water Resources; Office of Emergency Management Agency, California; Caltrans, District 7; Regional Water Quality Control Board, Region 4; Native American Heritage Commission; State Lands Commission

Note: Blanks in data fields result from insufficient information provided by lead agency.

**Document Details Report
State Clearinghouse Data Base**

Date Received 01/26/2010 *Start of Review* 01/26/2010 *End of Review* 02/24/2010

Note: Blanks in data fields result from insufficient information provided by lead agency.



RESPONSE TO COMMENT LETTER NO. 1

Mr. Scott Morgan, Acting Director

State of California Office of Planning and Research, State Clearinghouse

February 25, 2010

- 1.1 This comment indicates that the State Clearinghouse submitted the IS/MND to selected state agencies for review, and that the comment period for the Draft IS/MND concluded on February 24, 2010 for State agencies. The comment indicates that the lead agency complied with the review requirements for draft environmental documents pursuant to CEQA. As such, the comment does not provide specific comments regarding information presented in the IS/MND and no further response is necessary.

DEPARTMENT OF TRANSPORTATION
 DISTRICT 7, REGIONAL PLANNING
 IGR/CEQA BRANCH
 100 MAIN STREET, MS # 16
 LOS ANGELES, CA 90012-3606
 PHONE: (213) 897-6696
 FAX: (213) 897-1337



*Flex your power!
 Be energy efficient!*

IGR/CEQA No. 100140AL, MND
 Naples Seawall-Interim and Long Range Repair Project
 Vic. LA-01 / PM 0.59
 SCH# 2010011073

February 8, 2010

Mr. Mark Christoffels
 City of Long Beach
 333 West Ocean Boulevard
 Long Beach, CA 90802

Dear Mr. Christoffels:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project is to identify viable options for the stabilization of the seawall in its present deteriorating state and extend the life of the seawalls.

The project is less than one mile from Pacific Coast Highway (SR-01). The proposed long/short range repairs would only generate truck traffic trips during short-term construction activities. We recommend that the following items related to truck traffic be evaluated/considered, where applicable:

1. Cargo spills need to be cleaned up expeditiously to prevent accidents.
2. Truck routes need to avoid areas with frequent pedestrian use, such as schools.

Any transportation of heavy construction equipment and/or materials which requires the use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. We recommend that large size truck trips be limited to off-peak commute periods.

Storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Please be mindful that projects need to be designed to discharge clean run-off water. Additionally storm water run-off is not permitted to discharge onto State highway facilities.

2.1

2.2

2.3

2.4

If you have any questions, please feel free to contact me at (213) 897-6696 or Alan Lin the project coordinator at (213) 897-8391 and refer to IGR/CEQA No. 100140AL.

2.4

Sincerely,

A handwritten signature in cursive script that reads "Elmer Alvarez".

ELMER ALVAREZ
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse



RESPONSE TO COMMENT LETTER NO. 2
Mr. Elmer Alvarez, IGR/CEQA Branch Chief
California Department of Transportation
February 8, 2010

- 2.1 This comment recommends that cargo spills from construction truck traffic would need to be cleaned up expeditiously to prevent accidents. In the event of a cargo spill, the City would ensure the immediate cleanup of the spill in accordance with Caltrans regulations.
- 2.2 This comment notes that truck routes during construction need to avoid areas with frequent pedestrian use. As stated in Mitigation Measure TRA-1 in Section 4.15, Transportation/Traffic of the IS/MND, a Traffic Management Plan (TMP) would be prepared for project construction which would address safety and traffic concerns within the project vicinity. The TMP would include a traffic signage plan to ensure pedestrian safety and access.
- 2.3 This comment states that any transportation of heavy construction equipment or materials requiring the use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. The comment also recommends that large size truck trips be limited to off-peak commute periods. In the event that the use of oversized-transport vehicles is required during construction of the proposed project, the City would be required to obtain the appropriate transportation permit from Caltrans. Also, these oversized truck trips, if necessary, would occur during off-peak traffic hours.
- 2.4 This comment states that projects should discharge clean run-off water. However, storm water run-off is not permitted to discharge onto State highway facilities. Section 4.8, Hydrology and Water Quality, of the IS/MND states that the project would be required to obtain the appropriate permits (i.e., National Pollutant Discharge Elimination System [NPDES] permit) from the Los Angeles Regional Water Quality Control Board (RWQCB). Compliance with the RWQCB permits, project implementation would not violate any discharge requirements. Also, storm water run-off would not be discharged onto State highway facilities due to the distance of Pacific Coast Highway (PCH) from the project site.



3.0 MITIGATION MONITORING AND REPORTING INTRODUCTION

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 program. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring program must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, the attached Section 4.0, *Mitigation Monitoring and Reporting Checklist*, has been prepared for the Naples Seawall Interim and Long Range Repair Project. This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable Conditions of Approval relative to significant environmental impacts 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 Naples Seawall Interim and Long Range Repair Project file.

This Mitigation Monitoring and Reporting Program delineates responsibilities for monitoring the Naples Seawall Interim and Long Range Repair Project, but also allows the City 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. This includes the review of all monitoring reports, enforcement actions, and document disposition, unless otherwise noted in the attached Mitigation Monitoring and Reporting Program Checklist. If an adopted mitigation measure is not being properly implemented, the designated monitoring personnel shall require corrective actions to ensure adequate implementation.

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 Mitigation Monitoring and Reporting Program, 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, program 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 Mitigation Monitoring and Reporting Program continues to satisfy the requirements of Public Resources Code Section 21081.6.

4.0 MITIGATION MONITORING AND REPORTING CHECKLIST



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
AIR QUALITY								
AQ-1	<p>During demolition, hauling, or other construction operations, excessive fugitive dust emissions shall be controlled by regular water or other dust preventive measures using the following procedures, as specified in the SCAQMD Rule 403.</p> <ul style="list-style-type: none"> ▪ Limit on-site vehicle speed to 15 miles per hour. ▪ Water material excavated or graded sufficiently to prevent excessive amounts of dust. Water at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. ▪ Water or securely cover material transported on-site or off-site sufficiently to prevent generating excessive amounts of dust. ▪ Minimize area disturbed by clearing, grading, earth moving, or excavation operations so as to prevent generating excessive amounts of dust. ▪ Indicate these control techniques in project specifications. Compliance with the measure will be subject to periodic site inspections by the City. 	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services	Approval of Plans/Field Verification			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<ul style="list-style-type: none"> ▪ Prevent visible dust from the project from emanating beyond the property line, to the maximum extent feasible. ▪ Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for ten days or more). ▪ Trucks transporting soil, sand, cut or fill materials, and/or construction debris to or from the site must be tarped from the point of origin. 							
AQ-2	Ozone precursor emissions from construction equipment vehicles shall be controlled by maintaining equipment engines in good condition and in proper tune per manufacturer's specifications, to the satisfaction of the City Engineer. Compliance with this measure shall be subject to periodic inspections of construction equipment vehicles by the City and included in construction bid documents.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services	Approval of Plans/ Field Inspection			
AQ-3	All trucks that are to haul material shall comply with California Vehicle Code Section 23114, with special attention to Sections 23114(b)(F), (e)(2) and (e)(4) as amended, regarding the prevention of such material spilling onto public streets and roads. This provision shall be provided in construction bid documents.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services	Approval of Plans/ Field Inspection			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
AQ-4	Construction hours, allowable work days, and phone numbers of the job superintendent must be clearly posted at all construction entrances to allow for surrounding property owners and residents to contact the job superintendent. If the job superintendent receives a complaint, appropriate corrective actions must be implemented immediately and a report taken to the reporting party.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Construction Contractor	City of Long Beach Public Works Department/ City of Long Beach Development Services	Field Inspection			
AQ-5	Backup generators shall be used only for emergency operations. All backup generators shall be selected in consultation with the SCAQMD from their list of certified internal combustion engines.	Pre-Construction/ On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Construction Contractor	City of Long Beach Public Works Department/ City of Long Beach Development Services/ South Coast Air Quality Management District	Approval of Plans/ Field Inspection			
BIOLOGICAL RESOURCES								
BIO-1	No later than 30 days prior to commencement of construction, an eelgrass survey shall be conducted for each phase. All mapping efforts shall be completed during the active growth phase for the vegetation (typically March through October) and shall be valid for a period of 60 days with the exception of surveys completed in August through October. A survey completed August through October shall be valid until the	Pre-Construction/ Post-Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services/ CDFG / NMFS	City of Long Beach Public Works Department/ City of Long Beach Development Services/ CDFG / NMFS	Completion of Survey / Submittal of Survey Results to the City, CDFG, and NMFS			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<p>resumption of active growth (i.e., in most instances, March 1). Work planned for November through February shall conduct a pre-construction survey during the previous August through October period.</p> <p>Survey results shall be mapped and reported to the City in an appropriate data format. The pre-construction survey results shall also be provided to California Department of Fish and Game (CDFG) and National Marine Fisheries Services (NMFS). If eelgrass is found in the project area prior to construction, a post-construction survey shall be provided within 30 days of completion of the work. The post-construction survey shall only be required to investigate those locations where eelgrass was identified in the initial survey (conducted prior to construction). If loss of eelgrass is noted, a mitigation plan consistent with the requirements of the Southern California Eelgrass Mitigation Policy shall be developed and implemented.</p>							
BIO-2	Water quality performance standard Best Management Practices (BMPs) shall include, but not be limited to, the use of silt curtains adjacent to construction activities in order to reduce turbidity and sedimentation related to the cleaning of the existing seawall, excavation of the base of the existing seawall, pile driving activities, and the final installation of the new seawall. Attempts shall be made to recover and dispose of organic material that is washed off of the existing seawall in a manner other than through dumping or washing directly into the	On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Construction Contractor	City of Long Beach Public Works Department/ City of Long Beach Development Services	Field Inspection			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	canal or bay.							
BIO-3	<p>During the high growth period from March 1 to October 31, <i>Caulerpa</i> surveys shall be conducted no more than 90 days prior to the start of construction and the results shall be submitted to National Marine Fisheries Services (NMFS) and the California Department of Fish and Game (CDFG) no later than 30 days before the start date of construction. For construction outside of the high growth period, approval for surveys shall be made on a case-by-case basis with the NMFS and CDFG. The surveys shall be consistent with Surveillance Level investigation as defined in the <i>Caulerpa</i> Control Protocol. A survey report using the standard <i>Caulerpa</i> reporting format shall be sent to the City and to the resource agencies within 10 days of the survey.</p> <p>If <i>Caulerpa</i> is found during any survey, the City shall be notified immediately and the NMFS and CDFG shall be notified within 24 hours of identification of the species. Discovery of the species shall require the verified eradication of the invasive alga in the project area before construction is allowed to begin.</p>	Pre-Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services/ CDFG / NMFS	City of Long Beach Public Works Department/ City of Long Beach Development Services/ CDFG / NMFS	Completion of Survey / Submittal of Survey Results to the City, CDFG, and NMFS			
BIO-4	To avoid nesting birds, one of the following must be implemented under the direction of the City Public Works Department:	Pre-Construction/ On-going During Construction	City of Long Beach Public Works Department/	City of Long Beach Public Works Department/	Completion of Survey and Submittal to the City			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<ul style="list-style-type: none"> ▪ All vegetation removal and/or thinning activities shall be scheduled from August 1 to February 14, if feasible to ensure that no active nests would be disturbed; or ▪ Conduct pre-construction surveys for nesting birds if construction is to take place during the nesting season (February 15 through July 31). A qualified wildlife biologist shall conduct a pre-construction raptor survey no more than 30 days prior to initiation of grading to provide confirmation on presence or absence of active nests in the vicinity (at least 300 feet around the project site). If active nests are encountered, species-specific measures shall be prepared by a qualified biologist in consultation with the California Department of Fish and Game (CDFG) and implemented to prevent abandonment of the active nest. At a minimum, grading in the vicinity of the nest shall be deferred until the young birds have fledged. A minimum exclusion buffer of 25 feet is required by CDFG for songbird nests, and 200 to 500 feet for raptor nests, depending on the species and location. The perimeter of the nest-setback zone shall be fenced or adequately demarcated with staked flagging at 20-foot intervals, and construction personnel restricted from 		City of Long Beach Development Services/ Construction Contractor/ CDFG	City of Long Beach Development Services/ Qualified Biologist/ CDFG				



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	the area. A survey report by the qualified wildlife biologist verifying that the young have fledged shall be submitted to the City prior to initiation of grading in the nest-setback zone.							
GEOLOGY AND SOILS								
GEO-1	<p>A qualified registered geologist, approved by the City Public Works Department, shall be present at the project site during long range repairs to observe and provide testing during the following activities:</p> <ul style="list-style-type: none"> ▪ Pile driving; ▪ Dock guide pile driving; ▪ Boring of the cast-in-drilled holes (CIDH); ▪ Placement of all grout and backfill; ▪ Installation of tiebacks; and ▪ Concrete placement and reinforcement. 	On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Qualified Geologist	Field Inspection			
GEO-2	The City shall require all contractors to preclude mudjacking activities. Such prohibition shall be stated within the project's plans and specifications. The project plans and specifications shall be reviewed and approved by the City Public Works Department.	Pre-Construction/ On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Qualified Geologist	City Approval of Project Plans and Specifications/ Field Inspection			
HAZARDS AND HAZARDOUS MATERIALS								
Refer to Mitigation Measure TRA-1								
NOISE								
N-1	Prior to site mobilization, a construction	Prior to Issuance	City of Long	City of Long	Field Inspection			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<p>management plan shall be prepared which includes the following:</p> <ul style="list-style-type: none"> ▪ All construction equipment, fixed or mobile, shall be equipped with properly operating and maintained mufflers; ▪ Construction noise reduction methods such as shutting off idling equipment, installing temporary acoustic barriers around stationary construction noise sources, maximizing the distance between construction equipment staging areas and occupied residential areas, and use of electric air compressors and similar power tools, rather than diesel equipment, shall be used where feasible; ▪ During construction, stationary construction equipment shall be placed such that emitted noise is directed away from sensitive noise receivers; ▪ During construction, stockpiling and vehicle staging areas shall be located as far as practical from noise sensitive receptors; ▪ Operate earthmoving equipment on the construction site, as far away from vibration sensitive sites as possible; 	<p>of Grading Permit/ On-going During Construction</p>	<p>Beach Public Works Department/ City of Long Beach Development Services</p>	<p>Beach Public Works Department/ City of Long Beach Development Services</p>				



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<p>and</p> <ul style="list-style-type: none"> ▪ Property owners and occupants located on Naples Island and Treasure Island, and other residents within 200 feet of the project boundary shall be sent a notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at a distance of 50 feet shall also be posted at the project construction site. All notices and signs shall indicate the dates and duration of construction activities and road closures, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints. 							
N-2	A person qualified in construction noise and vibration assessment shall prepare construction vibration mitigation plans, which shall be reviewed for adequacy by the City Public Works Department. The plans shall describe measures to reduce construction vibrations to the maximum extent possible. Vibration monitoring shall be performed during construction activities occurring in proximity to surrounding residents to establish the maximum level of vibration. If vibrations reach levels that disrupt surrounding residents, alternative work methods and/or equipment shall be employed to reduce vibration levels to non-harmful levels.	Pre-Construction/ On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services/ Person Qualified in Construction Noise and Vibration Assessment	City Approval of Construction Vibration Mitigation Plans/ Field Inspection			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
N-3	Impact equipment (e.g., jack hammers, pavement breakers, and rock drills) used for construction shall be hydraulically or electrical powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used.	On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services	Field Inspection			
TRANSPORTATION / TRAFFIC								
TRA-1	<p>Prior to construction, the City of Long Beach shall prepare a Traffic Management Plan (TMP) to address safety and traffic concerns within the project vicinity. At a minimum, the TMP shall include plans to accomplish the following:</p> <ul style="list-style-type: none"> ▪ Clearly denote lane closures and traffic rerouting (if required); ▪ Traffic signage plan to ensure adequate traffic access, emergency response service levels, and pedestrian access during the short-term construction process; ▪ Ensure access in the project area is maintained during construction; ▪ Ensure access is maintained to Treasure Island by maintaining at least one open lane along the West Neapolitan Lane Bridge, controlled by flagmen; 	Pre-Construction/ On-going During Construction	City of Long Beach Public Works Department/ City of Long Beach Development Services	City of Long Beach Public Works Department/ City of Long Beach Development Services	City Approval of TMP/ Field Inspection			



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
	<ul style="list-style-type: none"> ▪ Designate parking areas for construction workers and equipment that shall not interfere with resident parking; ▪ Construction equipment traffic shall be controlled by flagmen; and ▪ Designate a Monitor that shall inform the public of the ongoing project progress and alterations to the expected plans; <p>The TMP shall be subject to review and approval by the City of Long Beach Public Works Department.</p>							