FINAL MITIGATION MONITORING AND REPORTING PROGRAM

Berths 212–224 (YTI) Container Terminal Improvements Project

Environmental Impact Report (EIR) APP # 130204-020 / SCH # 2013041017

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Acronyms and Abbreviations

Chapter 1 Mitigation Monitoring and Reporting Program

1.1 Introduction

Section 21081.6 of the California Public Resources Code (PRC) requires a Lead or Responsible Agency to adopt a mitigation monitoring and reporting program (MMRP) when approving or carrying out a project. The purpose of this program is to ensure that when an environmental document, either an Environmental Impact Report (EIR) or a negative declaration, identifies measures to reduce potential adverse environmental impacts that those measures are implemented as detailed in the environmental document. As lead agency for Berths 212–224 Yusen Terminals, Incorporated (YTI) Container Terminal Improvements Project (proposed Project), the Los Angeles Harbor Department (LAHD) is responsible for implementation of this MMRP.

An Environmental Impact Statement/Environmental Impact Report (EIS/EIR) has been prepared for the proposed Project that addresses the potential environmental impacts and, where appropriate, recommends measures to mitigate these impacts. As such, this MMRP is required to ensure that adopted mitigation measures are successfully implemented and that a monitoring strategy was prepared for each mitigation measure identified in the proposed Project. Once the Board of Harbor Commissioners adopts the MMRP, the applicable LAHD division(s) will incorporate the mitigation monitoring/reporting requirements in the appropriate permits (i.e., engineering specifications, engineering construction permits, and real estate entitlements). Therefore, in accordance with the aforementioned requirements, this document lists each mitigation measure, describes the methods for implementation and verification, and identifies the responsible party or parties as detailed below in Section 1.7, Mitigation Monitoring and Reporting Program Implementation.

1.2 Proposed Project Overview

The proposed project site is at 701 New Dock Street on Terminal Island, within an industrial area in the vicinity of the East Basin and Turning Basin in Los Angeles Harbor (Figure 2-2 in the Draft EIS/EIR). The site is generally bounded on the north by confluence of the Cerritos and East Basin Channels, on the east by SA Recycling at Berths 210–211, on the south by Seaside Avenue and SR-47, and on the west by the East Basin Channel. The site is within the Port of Los Angeles Community Plan area of the City of Los Angeles, which is adjacent to the communities of San Pedro and Wilmington. The proposed project site encompasses a total of approximately 185 acres, including the YTI Terminal and a portion of the Terminal Island Container Transfer Facility (TICTF)

(Figure 2-3 in the Draft EIS/EIR). The berths and container yard occupy approximately 157 acres, YTI's portion of the TICTF on-dock rail is approximately 24 acres, and an additional 4 acres are unused.

YTI plans to exercise an option to extend its lease through 2026. The proposed project horizon year is 2026, the final year of the extended lease. The terminal consists of two operating berths, Berths 212-213 and Berths 214-216, and one non-operating berth, Berths 217–220. Physical improvements proposed at the existing YTI Terminal include dredging and installing sheet piles¹ and king piles² at Berths 214–216 and Berths 217– 220, adding and replacing/extending wharf gantry cranes, extending the 100-foot gauge crane rail along the wharf deck to Berths 217–220, improving/repairing backlands across the entire site, and adding a new operational rail track within the existing TICTF on-dock rail yard. All improvements would occur within the existing boundaries of the YTI Terminal. The proposed Project does not include physical improvements at Berths 221– 224 except for resurfacing of backland areas. Improvements at Berths 212–213 would be limited to raising the height and extending the booms of cranes, and resurfacing backland areas. All dredged material would be disposed of at an approved site, such as the LA-2 Ocean Dredged Material Disposal Site (LA-2), the Berths 243–245 confined disposal facility (CDF), or another approved location. After construction, the terminal would have three operating berths. These improvements would enable the terminal to accommodate the projected fleet mix of larger container ships (up to 13,000 twenty-foot equivalent units [TEUs]) that are anticipated to call at the terminal through 2026, and would increase the capacity of the terminal from 1,692,000 TEUs to 1,913,000 TEUs annually.

1.3 Project Purpose

LAHD operates the Port under the legal mandates of the Port of Los Angeles Tidelands Trust (Los Angeles City Charter, Article VI, Section 601) and the California Coastal Act (PRC Division 20 Section 700 et seq.), which identify the Port and its facilities as a primary economic and coastal resource of the State of California and an essential element of the national maritime industry for the promotion of commerce, navigation, fisheries, and Harbor operations. Activities should be water dependent and LAHD must give highest priority to navigation, shipping, and necessary support and access facilities to accommodate the demands of foreign and domestic waterborne commerce. LAHD is chartered to develop and operate the Port to benefit maritime uses, and it functions as a landlord by leasing Port properties to more than 300 tenants.

1.3.1 CEQA Objectives

The overall proposed project objective is to optimize the container-handling efficiency and capacity of the Port to accommodate the projected fleet mix of larger container vessels (up to 13,000 TEUs) that are anticipated to call at the YTI Terminal through 2026.

¹ Sheet piles are used in earth retention and excavation support to retain soil, using steel sheet sections with interlocking edges, and are installed in sequence along a planned excavation perimeter or seawall alignment. The interlocked sheet piles form a wall for lateral earth support.

 $^{^{2}}$ King piles are steel, wide-flange H-beam piles that are driven into the soil, and provide structural support for the installation of sheet piles.

To meet the proposed project objective, the following more detailed objectives need to be met:

- optimize the use of existing land at the YTI Terminal and associated waterways in a manner that is consistent with LAHD's tidelands trust obligations;
- provide sufficient water depth to ensure the terminal's ability to accommodate larger container ships of up to 13,000 TEUs that are anticipated to call at the terminal through 2026;
- improve the container terminal berthing facilities at the YTI Terminal to accommodate the berthing and loading/unloading of the larger ships up to 13,000 TEUs that are anticipated to call at the terminal through 2026;
- increase on-dock rail facilities to accommodate projected daily peak increases in container movement into and out of the YTI Terminal resulting from the handling of larger ships; and
- improve the container terminal backlands to minimize ongoing needs for pavement repair and maintenance.

1.3.2 NEPA Purpose and Need

The purpose of the proposed Project is to improve maritime shipping and commerce by upgrading container terminal infrastructure in, over, and under water and on terminal backlands to accommodate the projected fleet mix of larger container ships (up to 13,000 TEUs) that are anticipated to call at the YTI Terminal through 2026. The proposed Project would optimize the terminal's efficiency and would improve maritime shipping and commerce. This would be accomplished through dredging to deepen two berths at the terminal, including the addition of subsurface king piles/sheet piles to stabilize the existing wharf structure, replacing and/or extending gantry cranes, extending the 100-foot gauge crane rail along the wharf deck to Berths 217–220, and adding a new operational rail track within the existing TICTF on-dock rail yard.

The proposed Project is needed for several reasons, primarily related to projected increases in the size of vessels in the fleet mix throughout the life of the proposed Project. Forecasts show that vessel fleets calling at the YTI Terminal will include larger vessels (up to 13,000 TEUs). The existing berths that would be upgraded as part of the proposed Project are currently dredged to -45 feet Mean Lower Low Water (MLLW)³ and are not deep enough to accommodate the projected fleet mix through 2026. The deepest existing berth can only accommodate 8,500 TEU vessels. In addition to depth restrictions, the majority of the existing cranes and crane infrastructure cannot accommodate the larger vessels. The existing 50-foot gauge crane rail at Berths 217–220 is not of sufficient size or gauge to accommodate the type and size of cranes capable of efficiently loading and unloading the existing fleet mix calling at the terminal or the larger container ships expected to call through 2026. Currently, all operating cranes have a 100-foot width between the rails. A temporary 100-foot gauge rail extends partially onto Berths 217–220 to allow cranes to be moved out of the way for storage, but the temporary crane rail lacks the structural integrity to support operating cranes. Only 4 of the existing 14 cranes

³ Mean Lower Low Water is the average height of the lowest tide recorded at a tide station each day during the recording period.

at the terminal are tall enough and have an outreach long enough to load and off-load the largest vessels anticipated to call at the terminal. Also, the TICTF on-dock rail yard at the YTI Terminal does not have the capacity to efficiently accommodate an increase in peak container volumes associated with larger container ships calling at the terminal. Consequently, an additional operational rail track is needed. Finally, the YTI Terminal container yard backlands are deteriorating and in need of repair and strengthening to prevent further damage to equipment and pavement throughout the life of the proposed Project.

1.4 Proposed Project Elements

The proposed Project would be constructed in two phases over an approximately 22month schedule, expected to begin in mid-2015. Phase I is expected to last approximately 12 months and would consist of deepening Berths 217–220 (including installation of sheet piles), extending the 100-foot gauge crane rail, expanding the TICTF, relocating two Port-owned cranes, relocating and realigning two YTI cranes, delivering and installing up to four new cranes, raising and extending up to six YTI cranes, and conducting backland surface improvements. Phase II is expected to take approximately 10 months and would involve deepening Berths 214–216 (including installation of king piles and sheet piles) and conducting backland surface improvements. No physical changes would occur at Berths 221–224 except for paving work in the backland area. The improvements to Berths 217–220, including the extension of the 100-foot gauge crane rail, would add a new operating berth at the YTI Terminal (currently at two operating berths, three after implementation of the proposed Project). Below is a summary of the improvements that would occur at the terminal, with more detailed descriptions following.

- extending the height and outreach of up to six existing cranes;
- replacing up to four existing non-operating cranes;
- dredging and installing sheet piles and king piles at Berths 214–216 and 217–220;
- extending the existing 100-foot gauge landside crane rail to Berths 217–220;
- performing ground repairs and maintenance activities in the backlands area; and
- expanding the TICTF on-dock rail by adding a single operational rail track.

1.4.1 Terminal Improvements

1.4.1.1 Dredging and Pilings

The proposed improvements to Berths 214–216 include: (1) dredging to increase the depth from -45 to -53 feet mean lower low water (MLLW) (with an additional 2 feet of overdredge depth, for a total depth of -55 feet MLLW); and (2) installing sheet piles and king piles to accommodate the dredging activities and help to support and stabilize the existing wharf structure. Dredging would remove approximately 21,000 cubic yards (cy) of sediment from the berth. The king piles would be installed approximately 35 feet below the mudline and the sheet piles would be installed 15 feet below the mudline, across approximately 1,400 linear feet along the berth (Figure 2-8 in the Draft EIS/EIR).

The proposed improvements at Berths 217–220 would include dredging to increase the depth from -45 to -47 feet MLLW (with an additional two feet of overdredge depth, for a total depth of -49 feet MLLW). Dredging would require the removal of approximately 6,000 cy of sediment. Sheet piles would be installed approximately 15 feet below the mudline and across approximately 1,200 linear feet along the berth (Figure 2-9 in the Draft EIS/EIR).

All of the dredged material, approximately 27,000 cubic yards, would be disposed of at an approved site, which may include LA-2, the Berths 243–245 CDF, or another approved location. A sediment characterization study was performed at Berths 212–224 in 2013 to determine the suitability of sediments from the proposed dredge footprint for unconfined aquatic disposal (AMEC 2013). Testing indicated that the majority of sediments within the Berths 212–224 footprint complied with the chemistry, toxicity, and bioaccumulation suitability requirements for ocean disposal (Title 40 Code of Federal Regulations [CFR] Parts 220–228), with some higher levels associated with unconsolidated surface (top-layer) sediments at Berths 214–216. Therefore, the majority of dredged material (21,800 cubic yards) would be suitable for placement at LA-2.

1.4.1.2 Crane Extension/Replacement

Currently there are 10 operating cranes (14 cranes total) at the terminal. Under the proposed Project, there would be up to 14 operating cranes and two non-operating cranes. The proposed Project includes raising and increasing the outreach of some of the existing wharf cranes and replacing some existing cranes with super post-Panamax cranes⁴. The four existing largest super post-Panamax cranes (cranes 5-8) would remain and would not be modified. Up to six existing cranes (cranes 1-4 and 9-10) would be raised, and the booms would be extended to match the size of the four largest cranes (197 feet) to accommodate loading and unloading of 22-container-wide cargo vessels. A maximum of four new super post-Panamax cranes would be added to replace smaller cranes at the YTI Terminal. The existing non-operating cranes (cranes 11-12) would be moved to the far end of Berths 217–220 and stored for non-use. Additionally, the existing non-operating cranes owned by the Port (cranes P18–P19) would be relocated off site. Table 1-1 summarizes the proposed modifications to the cranes at the terminal. The crane locations identified on Table 1-1 are reasonably likely locations that have been assumed for the purposes of performing a visual analysis; however, the cranes are designed to move along the wharves and would be located where needed to efficiently load and unload vessels.

⁴ Super post-Panamax refers to the largest modern container cranes that are used for vessels of about 22 or more containers wide (too large/wide to pass through the Panama Canal), and can weigh 1600–2000 metric tons. Currently, the Panama Canal can only handle vessels up to about 5,000 TEUs, and after the expansion (to be operational in 2015) it will be able to handle vessels of cargo capacity up to 13,000 TEUs.

	E	Existing	P	roposed
Crane Number	Maximum Outreach	Containers Wide	Maximum Outreach	Containers Wide
1	153'	17	197'	22
2	153'	17	197'	22
3	180'	20	197'	22
4	180'	20	197'	22
5	197'	22	197'	22
6	197'	22	197'	22
7	197'	22	197'	22
8	197'	22	197'	22
9	145'	16	197'	22
10	145'	16	197'	22
11*	145'	16	145'*	16
12*	145'	16	145'*	16
P18*	110' 3"	13	N/A	N/A
P19*	110' 3"	13	N/A	N/A
New	N/A	N/A	197'	22
New	N/A	N/A	197'	22
New	N/A	N/A	197'	22
New	N/A	N/A	197'	22

Table 1-1: YTI Terminal Proposed Crane Modifications and Replacements

1.4.1.3 Extension of Wharf Crane Rail

The existing 100-foot gauge landside crane rail at Berths 212–216 would be extended by approximately 1,500 feet to accommodate 100-foot gauge cranes at Berths 217–220. Approximately 1,500 linear feet of existing 1,000 amp crane bus bar⁵ would be replaced with a new 1,500 amp system to provide power to the 100-foot gauge cranes.

1.4.1.4 Backland Improvements

Backland improvements would occur on approximately 160 acres of the 185-acre terminal and would consist of ground repairs and maintenance activities involving slurry sealing, deep cold planning, asphalt concrete overlay, construction of approximately 5,600 linear feet of concrete runways for rubber tire gantry cranes, restriping, and possible removal/relocation/modification of underground conduits and pipes, as needed to accommodate the repairs.

⁵ A bus bar is a strip or bar of copper, brass, or aluminum that conducts electricity. At the YTI Terminal, a bus bar extends along the water-side edge of the wharf to conduct electricity for the gantry cranes that move up and down the wharf, and is protected from accidental contact by a metal enclosure.

1.4.1.5 TICTF Improvements

Expansion of the TICTF on-dock railyard would include the addition of a single 3,200linear-foot operational rail loading track, including two turnouts, and reconstruction of a portion of the container terminal backlands to accommodate the rail expansion. These improvements would involve grading, paving, lighting, drainage, utility relocation/modifications, striping, relocation of an existing fence, and third-party utility modifications, relocations, or removals, as needed. The relocation of the fence would move approximately 5 acres from the YTI Terminal backlands to the TICTF.

1.5 Project Phasing and Construction Plan

The proposed Project would be constructed in two phases: Phase I is expected to take approximately 12 months beginning in mid-2015, and Phase II is expected to take approximately 10 months beginning in mid-2016. During Phase I of construction, Berths 212–213 and Berths 214–216 would remain in operation. During Phase II of construction, Berths 212–213 and the newly improved Berths 217–220 would be in operation. Table 1-2 shows the estimated construction phasing and schedule. In order to ensure that peak construction emissions are estimated, the schedule assumes that all of the work on the cranes to be modified and replaced would take place during the 22-month construction period. It is possible that some of the cranes would not be modified or replaced until a later date.

Table 1-2: Estimated Construction Phasing and Schedule

											Mo	nths										
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	2
Phase I: Berths 217–220 Dredging and	1 Pile	Insta	llatio	on, C	rane	Rail	Exte	nsion	, TI	CTF	Expa	nsio	n, Ba	cklaı	nd In	nprov	veme	nts				
Mobilization/Prep/Coordination																						
Sheet Pile Installation																						
Dredging: Ocean Disposal ¹																						
Dredging: Upland Disposal ¹																						
Crane Rail Extension																						
LAHD Crane Relocation																						
YTI Crane Relocation/Realignment																						
New Crane Delivery																						
Crane Height Raising and Boom Ext																						
Concrete Runway																						
Cold Plane and Asphalt Concrete Overlay																						
Slurry Seal																						
Striping																						
TICTF Expansion																						
Phase II: Berths 214–216 Dredging an	ıd Pile	Inst	allati	on, E	Backl	and	lmpr	ovem	ents													
Sheet and King Pile Installation																						
Dredging: Ocean Disposal ¹																						
Dredging: Upland Disposal ¹																						
Slurry Seal																						
Striping																						
Final Inspection/Project Closeout																						
Note:																						
¹ Options for either ocean disposal or upland dis	posal a	re mut	ually	exclus	sive.																	

¹Options for either ocean disposal or upland disposal are mutually exclusive.

1.6 Monitoring and Reporting Procedures

Mitigation measures will be implemented in accordance with this MMRP. Lease measures and standard conditions have also been incorporated into this MMRP for reporting and tracking purposes. All applicable construction-related mitigation measures and standard conditions will be included in any bid specification released for construction of the proposed Project. Prior to release of bid specifications, construction plans will be provided to LAHD's Environmental Management Division (LAHD/EMD) for review and approval. Operational mitigation measures and lease measures will be incorporated into the lease through a lease amendment and will be monitored throughout operation by LAHD/EMD and any specified responsible parties designated by LAHD/EMD.

This MMRP for the proposed Project will be in place through design, construction, and operation of both phases of the proposed Project, and will ensure that proposed project objectives are achieved. LAHD will be responsible for administering the MMRP and ensuring that all parties comply with its provisions. LAHD may delegate monitoring activities to staff, consultants, or contractors. All construction contractors will submit an Environmental Compliance Plan for Construction Management and LAHD/EMD approval prior to beginning construction activities. This plan will document how the contractor intends to comply with all measures applicable to the contract, including application of Best Management Practices (BMPs). LAHD also will ensure that monitoring is documented and that deficiencies are promptly corrected. A designated environmental monitor will track and document compliance with mitigation measures, note any problems that may result, and take appropriate action to rectify problems. LAHD will monitor compliance with operational mitigation and lease measures throughout the life of the lease.

1.7 Mitigation Monitoring and Reporting Program Implementation

LAHD is responsible for administering the MMRP and ensuring that all parties comply with its provisions. The MMRP presented in Table 2-1 identifies each mitigation measure, lease measure, or standard condition by discipline and the entity (organization) responsible for its implementation. The methods for complying with the mitigation measures, timing, and reporting and documentation procedures are described in detail in Table 2-1.

Chapter 2 Mitigation Monitoring and Reporting Program Summary

Table 2-1. Mitigation Monitoring and Reporting ProgProject	ram Summary for the Berths 212–224 (YTI) Conta	iner Terminal Improvements
Mitigation Measures	Timing and Methods	Responsible Parties
3.2 Air Quality		
MM AQ-1: Crane Delivery Ships Used during Construction. All ships and barges must comply with the expanded Vessel Speed Reduction Program (VSRP) of 12 knots between 20 nautical miles (nm) and 40 nm from Point Fermin.	Timing: During crane delivery. Methods: LAHD will include MM AQ-1 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division
MM AQ-2: Harbor Craft Used during Construction. Harbor craft must use Tier 3 or cleaner engines.	 Timing: Throughout construction. Methods: LAHD will include MM AQ-2 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction. The measures shall be met, unless one of the following circumstances exist and the contractor is able to provide proof that any of these circumstances exists: A piece of specialized equipment is unavailable in a controlled form within the state of California, including through a leasing agreement. A contractor has applied for necessary incentive funds to put controls on a piece of uncontrolled equipment planned for use on the project but the application has been approved but funds are not yet available. A contractor has ordered a control device for a piece of equipment planned for use on the project, or the contractor has ordered a new piece of controlled equipment to replace the uncontrolled 	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division

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Table 2-1. Mitigation Monitoring and Reporting ProgProject	ram Summary for the Berths 212–224 (YTI) Conta	iner Terminal Improvements
Mitigation Measures	Timing and Methods	Responsible Parties
	equipment but that order has not been completed by the manufacturer or dealer. In addition, for this exemption to apply, the contractor must attempt to lease controlled equipment to avoid using uncontrolled equipment but no dealer within 200 miles of the project has the controlled equipment available for lease.	
MM AQ-3: Fleet Modernization for On-Road Trucks	Timing: Throughout construction.	Implementation: LAHD through
Used during Construction. Trucks with a gross vehicle weight rating of 19,500 or greater, including import haulers	Methods: LAHD will include MM AQ-3 in the	Construction Contractor
and earth movers, must comply with U.S. Environmental	contract specifications for construction. LAHD will monitor implementation of mitigation measures during	Monitoring and Reporting: Environmental Management
Protection Agency (EPA) 2010 on-road emission standards.	construction.	Division, Construction Management
	The measures shall be met, unless one of the following	Division
	circumstances exist and the contractor is able to	
	provide proof that any of these circumstances exists:	
	• A piece of specialized equipment is unavailable in a controlled form within the state of California,	
	including through a leasing agreement.A contractor has applied for necessary incentive	
	A contractor has applied for necessary incentive funds to put controls on a piece of uncontrolled	
	equipment planned for use on the project but the	
	application process is not yet approved, or the	
	application has been approved but funds are not yet available.	
	• A contractor has ordered a control device for a	
	piece of equipment planned for use on the project, or the contractor has ordered a new piece of	
	controlled equipment to replace the uncontrolled	
	equipment but that order has not been completed	
	by the manufacturer or dealer. In addition, for this	
	exemption to apply, the contractor must attempt to	
	lease controlled equipment to avoid using	

Table 2-1. Mitigation Monitoring and Reporting Program Summary for the Berths 212–224 (YTI) Container Terminal Improvements
Project

Mitigation Measures	Timing and Methods	Responsible Parties
	uncontrolled equipment but no dealer within 200 miles of the project has the controlled equipment available for lease.	
MM AQ-4: Fleet Modernization for Construction Equipment (except vessels, harbor craft, on-road trucks, and dredging equipment). All diesel-powered construction equipment greater than 50 horsepower must meet EPA Tier 4 off-road emission standards.	 Timing: Throughout construction. Methods: LAHD will include MM AQ-4 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction. The measures shall be met, unless one of the following circumstances exist and the contractor is able to provide proof that any of these circumstances exists: A piece of specialized equipment is unavailable in a controlled form within the state of California, including through a leasing agreement. A contractor has applied for necessary incentive funds to put controls on a piece of uncontrolled equipment planned for use on the project but the application process is not yet approved, or the application has been approved but funds are not yet available. A contractor has ordered a control device for a piece of equipment planned for use on the project, or the contractor has ordered a new piece of controlled equipment to replace the uncontrolled equipment but that order has not been completed by the manufacturer or dealer. In addition, for this exemption to apply, the contractor must attempt to lease controlled equipment but no dealer within 200 miles of the project has the controlled equipment available for lease. 	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Managemen Division

Table 2-1. Mitigation Monitoring and Reporting Program Summary for the Berths 212-	-224 (YTI) Container Terminal Improvements
Project	

Mitigation Measures	Timing and Methods	Responsible Parties
MM AQ-5: Dredging Equipment. All dredging equipment must be electric.	Timing: During dredging. Methods: LAHD will include MM AQ-5 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division
 MM AQ-6: Construction Best Management Practices (BMPs). LAHD will implement BMPs, per LAHD Sustainable Construction Guidelines, to reduce air emissions from all LAHD-sponsored construction projects. The following measures are required for construction equipment, including on-road trucks used during construction: Use diesel oxidation catalysts and catalyzed diesel particulate traps. Maintain equipment according to manufacturers' specifications. Restrict idling of construction equipment to a maximum of 5 minutes when not in use. Install high-pressure fuel injectors on construction equipment vehicles. LAHD will implement a process by which to select additional BMPs to further reduce air emissions during construction. LAHD will determine the BMPs once the contractor identifies and secures a final equipment list. Because the effectiveness of this measure has not been established and includes some emission reduction technology that may already be incorporated into equipment as part of the Tier level requirement in MM AQ-3 and MM AQ-4, it is not quantified in this study. 	Timing: Throughout construction. Methods: LAHD will include MM AQ-6 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division

Table 2-1. Mitigation Monitoring and Reporting Program Summary for	or the Berths 212–224 (YTI) Container Terminal Improvements
Project	

Mitigation Measures	Timing and Methods	Responsible Parties
 Mitigation Measures MM AQ-7: Additional Fugitive Dust Controls. Contractor must adhere to the following control measures, at a minimum: Active grading sites shall be watered at intervals of 2 hours. Traffic speeds on all unpaved roads must be limited to 15 mph or less. Contractors shall apply approved non-toxic chemical soil stabilizers to all inactive construction areas or replace groundcover in disturbed areas. Contractors shall provide temporary wind fencing around sites being graded or cleared. Trucks hauling dirt, sand, or gravel shall be covered or shall maintain at least 2 feet of freeboard in accordance with Section 23114 of the California Vehicle Code ("Spilling Loads on Highways"). Construction contractors shall install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off tires of vehicles and any equipment leaving the construction site. The grading contractor shall suspend all soil disturbance activities when winds exceed 25 mph or when visible dust plumes emanate from a site, and disturbed areas shall be stabilized if construction is delayed. Open storage piles (greater than 3 feet tall and a total surface area of 150 square feet) shall be covered with a plastic tarp or chemical dust suppressant. 	Timing and Methods Timing: Throughout construction. Methods: LAHD will include MM AQ-7 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction. Image: Construction of mitigation measures during construction.	Responsible Parties Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division
 Materials shall be stabilized while loading, unloading, and transporting to reduce fugitive dust emissions. Belly-dump truck seals shall be checked regularly to 		

Mitigation Measures	Timing and Methods	Responsible Parties
 Track-out regulations shall be followed and water shall be provided while loading and unloading to reduce visible dust plumes. Waste materials shall be hauled off site immediately. 		
MM AQ-8. General Mitigation Measure. For any of the above mitigation measures (MM AQ-2 through MM AQ-7), if a California Air Resources Board (CARB)-certified technology becomes available and is shown to be as good as, or better than, the existing measure in terms of emissions performance, the technology could replace the existing measure pending approval by LAHD. Measures will be set at the time a specific construction contract is advertised for bid.	Timing: Throughout construction. Methods: LAHD will include MM AQ-8 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Engineering and Construction Contractors Monitoring and Reporting: Environmental Management Division, Construction Management Division
MM AQ-9. Vessel Speed Reduction Program (VSRP). Starting January 1, 2017 and thereafter, 95% of ships calling at the YTI Terminal will be required to comply with the expanded VSRP at 12 knots between 40 nm from Point Fermin and the Precautionary Area.	Timing: Throughout operation. Methods: LAHD will include MM AQ-9 in lease agreement with tenant. LAHD will monitor implementation of mitigation measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division
MM AQ-10. Alternative Maritime Power (AMP). By 2026, NYK Line-operated ships calling at the YTI Terminal will use AMP for 95% of total hoteling hours while hoteling at the Port.	Timing: Throughout operation. Methods: LAHD will include MM AQ-10 in lease agreement with tenant. LAHD will monitor implementation of mitigation measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division
LM AQ-1. Periodic Review of New Technology and Regulations. LAHD will require the tenant to review any LAHD-identified or other new emissions-reduction technology, determine whether the technology is feasible, and report to LAHD. Such technology feasibility reviews will take place at the time of LAHD's consideration of any lease amendment or facility modification for the YTI Terminal (Standard Tenant Feasibility Review). If the	Timing: Throughout operation. Methods: LAHD will include LM AQ-1 in lease agreement with tenant. LAHD will monitor implementation of lease measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division

Mitigation Measures	Timing and Methods	Responsi
technology identified in the Standard Tenant Feasibility		
Review is determined by LAHD to be feasible in terms of		
financial, technical and operational feasibility, the tenant will		
work with LAHD to implement such technology.		
In addition to Standard Tenant Feasibility Review described		
above, and as partial consideration for the lease amendment,		
the tenant and LAHD will:		
(i) Commencing on December 31, 2017, and continuing not		
less frequently than once every two years thereafter		
(Expedited Feasibility Review), investigate and report to the		
Los Angeles Board of Harbor Commissioners on: (a) the		
feasibility of zero emissions and near-zero emissions		
technologies for truck, yard equipment and rail activities;		
and (b) the feasibility of technologies to reduce emissions		
from vessels berthed at terminals that are not able to utilize		
AMP; and		
(ii) Review and report to the Los Angeles Board of Harbor		
Commissioners on the feasibility of any other new		
technology advancements that may reduce emissions not less		
frequently than once every five years following the effective data of the lasse amendment (Dario dia Esseibility Paviay)		
date of the lease amendment (Periodic Feasibility Review).		
If either the Expedited Feasibility Review or the Periodic		
Feasibility Review demonstrates the new technology will be effective in reducing emissions and is determined by the Los		
Angeles Board of Harbor Commissioners to be feasible,		
including but not limited to from a financial, technical and		
operational perspective, tenant will implement the new air		
quality technological advancements, subject to mutual		
agreement on operational feasibility and cost sharing, which		
will not be unreasonably withheld. The effectiveness of this		
measure depends on the advancement of new technologies		
and the outcome of future feasibility or pilot studies.		

Berths 212–224 (YTI) Container Terminal Improvements Project Mitigation Monitoring and Reporting Program

2-7

Table 2-1. Mitigation Monitoring and Reporting Program Summary for the Berths 212–224 (YTI) Cont	ainer Terminal Improvements
Project	

Mitigation Measures	Timing and Methods	Responsible Parties
LM AQ-2. Substitution of New Technology by Tenant. If any kind of technology becomes available and is shown to be as good as or better than the existing measure in terms of emissions reduction performance, the technology could replace the requirements of MM AQ-9 and MM AQ-10, pending approval by LAHD.	Timing and Methods Timing: Throughout operation. Methods: LAHD will include LM AQ-2 in lease agreement with tenant. LAHD will monitor implementation of lease measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division, Engineering Division, Construction Management Division
LM AQ-3: Container Ship Engine Emissions Reduction Technology Improvements. The tenant will encourage NYK Line to determine the feasibility of incorporating all emission reduction technology and/or design options for vessels calling at the YTI Terminal.	Timing: Throughout operation. Methods: LAHD will include LM AQ-3 in lease agreement with tenant. LAHD will monitor implementation of lease measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division
LM AQ-4: Zero or Near-Zero Emissions Demonstration Project. The tenant will participate in a demonstration project lasting three years to investigate the feasibility of using two zero emission or near-zero emission yard tractors on the YTI Terminal. LAHD shall provide the equipment to be tested and any necessary infrastructure, including charging stations, as part of the project.	Timing: Three years during operation. Methods: LAHD will include LM AQ-4 in lease agreement with tenant. LAHD will monitor implementation of lease measures during operation.	Implementation: LAHD and YTI Monitoring and Reporting: Environmental Management Division
3.3 Biological Resources		
MM BIO-1: Avoid marine mammals. Although it is expected that marine mammals will voluntarily move away from the area at the commencement of the vibratory or "soft start" of pile-driving activities, as a precautionary measure, pile-driving activities occurring as part of the sheet pile and king pile installation will include establishment of a safety zone, and the area surrounding the operations will be monitored for pinnipeds and cetaceans by a qualified marine mammal observer. A 300-meter-radius safety zone will be established around the pile-driving site and monitored for marine mammals. The pile-driving site will move with each new pile, therefore the 300-meter safety zone will move	Timing: During pile driving. Methods: LAHD will include MM BIO-1 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor Monitoring and Reporting: Environmental Management Division, Construction Management Division

Mitigation Measures	Timing and Methods	Responsible Parties
accordingly.		
Prior to commencement of pile driving, observers on shore		
or by boat will survey the safety zone to ensure that no		
marine mammals are seen within the zone before pile driving		
of a pile segment begins. If a marine mammal is observed		
within 10 meters of pile-driving operations, pile driving will		
be delayed until the marine mammal moves out of the 10-		
meter zone. If a marine mammal in the 300-meter safety		
zone is observed, but more than 10 meters away, the		
contractor will wait at least 15 minutes to commence pile		
driving. If the marine mammal has not left the 300-meter		
safety zone after 15 minutes, pile driving can commence		
with a "soft start." This 15-minute criterion is based on a		
study indicating that pinnipeds dive for a mean time of		
0.50 to 3.33 minutes; the 15-minute delay will allow a more		
than sufficient period of observation to be reasonably sure		
the animal has left the proposed project vicinity.		
If marine mammals enter the safety zone after pile driving of		
a segment has begun, pile driving will continue. The		
qualified observer will monitor and record the species and		
number of individuals observed, and make note of their		
behavior patterns. If the animal appears distressed, and if it		
is operationally safe to do so, pile driving will cease until the animal leaves the area. Prior to the initiation of each new		
pile-driving episode, the area will again be thoroughly surveyed by the qualified observer.		
3.4 Cultural Resources		Τ
SC CR-1: Stop Work in the Area if Prehistoric and/or	Timing: Throughout construction.	Implementation: LAHD through
Archaeological Resources are Encountered. In the	Methods: LAHD will include SC CR-1 in the	Construction Contractor
unlikely event that any prehistoric artifact of historic period	contract specifications for construction and will retain	Monitoring and Reporting:
materials or bone, shell, or nonnative stone is encountered	a qualified archaeologist to evaluate any potential	Environmental Management
during construction, work shall be immediately stopped, the	finds. LAHD will monitor implementation of	Division, Construction Management

Project		
Mitigation Measures	Timing and Methods	Responsible Parties
area secured, and work relocated to another area until the materials can be assessed by a qualified archaeologist. Examples of such cultural materials might include historical trash pits containing bottles and/or ceramics; or structural remains or concentrations of grinding stone tools such as mortars, bowls, pestles, and manos; chipped stone tools such as projectile points or choppers; and flakes of stone not consistent with the immediate geology such as obsidian or fused shale. The contractor shall stop construction within 30 feet of the exposure of these finds until a qualified archaeologist can be retained by LAHD to evaluate the find (see 36 CFR 800.11.1 and 14 CCR 15064.5(f)). If the resources are found to be significant, they shall be avoided or shall be mitigated consistent with Section 106 or State Historic Preservation Officer Guidelines.	mitigation measures during construction.	Division

Table 2-1. Mitigation Monitoring and Reporting Program Summary for the Berths 212–224 (YTI) Container Terminal Improvements
Project

Mitigation Measures	Timing and Methods	Responsible Parties	
3.6 Greenhouse Gas Emissions			
MM GHG-1: Energy Audit. The tenant will conduct an energy audit by a third party of its choice every five years and install innovative power-saving technology (1) where it is feasible and (2) where the amount of savings would be reasonably sufficient to cover the costs of implementation.	Timing: Throughout operation. Methods: LAHD will include MM GHG-1 in lease agreement with tenant. LAHD will monitor implementation of mitigation measures during operation.	Implementation: LAHD and YTI. Monitoring and Reporting: Environmental Management Division	
MM GHG-2: LED Lighting. When existing light bulbs require replacement, all bulbs within the interior of buildings on the premises will be replaced exclusively with LED light bulbs or a technology with similar energy-saving capabilities for ambient lighting within all terminal buildings. The tenant will also maintain and replace any Port-supplied LED light bulbs.	Timing: Throughout operation. Methods: LAHD will include MM GHG-2 in lease agreement with tenant. LAHD will monitor implementation of mitigation measures during operation.	Implementation: LAHD and YTI. Monitoring and Reporting: Environmental Management Division	
MM GHG-3: Recycling. The tenant will ensure that a minimum of 60% of all waste generated in all terminal buildings is recycled by 2017.	Timing: Throughout operation. Methods: LAHD will include MM GHG-3 in lease agreement with tenant. LAHD will monitor implementation of mitigation measures during operation.	Implementation: LAHD and YTI. Monitoring and Reporting: Environmental Management Division	
MM GHG-4: Carbon Offsets for Certain GHG Emissions. YTI shall purchase carbon offsets from sources listed on the American Carbon Registry and/or the Climate Action Reserve (or any other such registry approved by CARB) for a total of 16,380 metric tons of GHG emissions associated with electricity usage for certain terminal operations (Required Offsets) by the year 2026. Alternatively, if LAHD identifies local projects or establishes a local GHG emission reduction funding program, YTI may contribute funding equivalent to the cost of the Required Offsets to such local projects or funding program.	Timing: By the year 2026. Methods: LAHD will require MM GHG-4 in the tenant lease during operation. LAHD will monitor implementation of mitigation measures during operation.	Implementation: YTI. Monitoring and Reporting: Environmental Management Division	

Mitigation Measures	Timing and Methods	Responsible Parties
3.8 Groundwater and Soils		
MM GW-1: Soil Sampling, Testing, and Treatment. The following actions must be implemented by LAHD or its contractors: a) Prior to conducting excavations or disturbing the site cap in the former National Metals and Steel site, the former Al Larson's Boat site, and the former Hugo Neu Proler lease site, EPA must receive a "Notification of Activity" according to Federal protocol under the Toxic Substances Control Act (TSCA) for former polychlorinated biphenyl (PCB) remediation sites. In place (in-situ) soil sampling for PCBs must be completed prior to excavation and the analytical results provided to the EPA for review, prior to excavation. The sampling, analytical method, extraction, and soil disposal methods must comply with EPA TSCA regulations for PCB remediation sites where the original source of the PCBs was greater than 50 milligrams per kilogram (mg/kg). Sampling frequency and depth must be consistent with established EPA sampling procedures or guidance such as 40 CFR 761, Subpart N (40 CFR 761.260 et al.), or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site characterization guidance. PCB-containing waste soils must be disposed of and labeled as TSCA waste. EPA written concurrence with the notification is needed before excavation may proceed in former PCB remediation areas. In addition, as lead agency for PCBs, EPA may attach conditions to their concurrence, which must be followed. If excavation occurs in these soils, a site-specific health and safety plan (SSHSP) would be required to address worker safety.	Timing: Prior to and concurrent with construction. Methods: LAHD will include MM GW-1 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Managemen Division

Mitigation Measures	Timing and Methods	Responsible Parties
 b) In the former National Metals Steel and Al Larson E sites, soils must also be tested in advance for total petroleum hydrocarbons (TPH) and Title 22 metals a condition of remediation site closure by the Los Ang County Fire Department, Health and Hazardous Materials Section to provide adequate information for construction waste characterization and/or worker sa hazard evaluations, prior to excavation. Based on pa sampling, organochlorine pesticides (OCPs) should be tested at the National Metals Steel and Al Larson Boat site, and Title 22 metals and TPH should be test at the Hugo Neu Proler lease site. If direct truck loa or immediate soil reuse is desired at the National Metals Steel, Al Larson Boat, and former Hugo Neu Proler lease sites, testing of any other constituents necessar proper disposal or soil reuse should also be performance. 	Boat as a geles or afety ast also sted ding etals y for	
c) Soils in the former Golden West leasehold must be tested for TPH, benzene, toluene, ethyl benzene and xylenes, and polyaromatic hydrocarbons prior to disposal. This is due to elevated petroleum waste le backfill soils at this site. In addition, any other constituent analyses needed by the disposal site or for soil reuse should be analyzed at the same time. If excavation occurs in these soils, an SSHSP would be required to address worker safety.	ft in or e	
d) Soils in the former Dow Chemical site must be teste volatile organic compounds prior to disposal. This i because past sampling indicates carbon tetrachloride present at concentrations above industrial limits and level not protective of construction workers. Other lower-level volatile organic compounds (VOCs) we also found and should also be tested. In addition, an	s e is at a re	

Mitigation Measures	Timing and Methods	Responsible Parties
other constituent analyses needed by the disposal site or for immediate reuse should be analyzed for at the same time. If excavation occurs in these soils, an SSHSP would be required to address worker safety.		
e) In Waste Discharge Order 90-045, the Los Angeles Regional Water Quality Control Board requires maintenance of the structural integrity of the site cap for the former Golden West site and the National Metals Steel/Al Larson Boat Shop site. The site cap is to be a minimum of a 21-inch layer of clean material, compacted according to civil engineering standards, and the top 7 inches of this layer are to be asphalt concrete pavement. Groundwater monitoring requirements were rescinded for this site due to the presence of this cap and 6 years of monitoring indicating that the cap was protecting the groundwater from remnant contaminants in site soils. EPA may also be concerned with the integrity of this cap over former PCB remediation areas. Therefore, if the cap is disturbed over these sites, including the Hugo Neu Proler lease site, stormwater should not be allowed to infiltrate the cap, and during normal operations, the integrity of the cap should be inspected and maintained. Any other EPA requirements should also be followed.		
 MM GW-2: Contamination Contingency Plan. The following contingency plan will be implemented to address contamination discovered during demolition, grading, and construction. a) All trench excavation and filling operations will be observed for the presence of free petroleum products, chemicals, or contaminated soil. Soil suspected of contamination will be segregated from other soil. In the 	Timing: Throughout construction. Methods: LAHD will include MM GW-2 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Management Division

Mitigation Measures	Timing and Methods	Responsible Parties
event soil suspected of contamination is encour during construction, the contractor will notify l environmental representative. LAHD will con presence of the suspect material and direct the to remove, stockpile or contain, and characteriz suspect material. Continued work at a contami will require the approval of the LAHD Project	LAHD's firm the contractor ze the inated site Engineer.	
b) Excavation of VOC-impacted soil, or soil susp being impacted by VOCs based on historical si will require obtaining and complying with a So Air Quality Management District Rule 1166 pe soil suspected to have carbon tetrachloride, a P Ionization Detector (PID) with an 11.7 eV lam necessary to detect significant levels.	ite use, buth Coast ermit. For Photo	
 c) The remedial option(s) selected will be depend suite of criteria (including but not limited to typ chemical constituents, concentration of the che health and safety issues, time constraints, and c will be determined on a site-specific basis. Bo and onsite remedial options may be evaluated. 	pes of emicals, cost) and	
d) The extent of removal actions will be determin site-specific basis. At a minimum, the impacte within the boundaries of the construction area remediated to the satisfaction of LAHD and the regulatory agency for the site or action. The L Project Manager overseeing removal actions w the contractor when the removal action is complete the contractor when the removal action is complete.	ed area(s) will be e lead AHD vill inform	
 e) Copies of hazardous waste manifests or other of indicating the amount, nature, and disposition of materials will be submitted to the LAHD Projet Manager within 60 days of project completion. f) In the event that contaminated soil is encountered and the submitted is a submitted in the submitted in the submitted is a submitted in the submitted is a submitted in the submitted is a submitted in the submitted in the submitted is a submitted in the sub	of such oct	

Project				
Mitigation Measures	Timing and Methods	Responsible Parties		
prior to or during construction, all onsite person handling or working in the vicinity of the contar material must be trained in accordance with EP. Occupational Safety and Health and Administra (OSHA) regulations for hazardous waste operat demonstrate they have completed the appropriat training. Training must provide protective mean practices to reduce or eliminate hazardous materials/waste hazards at the workplace.	minated A and ation ions or te			
g) When impacted soil must be excavated, air mon will be conducted as appropriate for related emi adjacent to the excavation.				
 h) All excavations will be backfilled with structura suitable fill material that is free from contamina LAHD standards. 				
 Standard engineering controls and BMPs will be implemented while excavating impacted soils to minimize human exposure to potential contamin Engineering controls and construction BMPs wi include but not be limited to the following: 	onants.			
 Contractor will water/mist soil as its being e and loaded onto transportation trucks. Contractor will place any stockpiled soil in 				
 shielded from prevailing winds. Contractor will cover the bottom of excavat with sheeting when work is not being performed. 				

Mitigation Measures	Timing and Methods	Responsible Parties			
3.12 Noise					
MM NOI-1: Noise Reduction during Pile Driving. The contractor will be required to use a pile-driving system such as a Bruce hammer (with silencing kit); an IHC Hydrohammer, SC series (with a sound insulation system); or an equivalent silenced hammer that is capable of limiting maximum noise levels at 50 feet from the pile driver to 104 A-weighted decibels (dBA), or less, during installation of king piles and sheet piles.	Timing: During pile driving. Methods: LAHD will include MM NOI-1 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Management Division			
MM NOI-2: Erect Temporary Noise Attenuation Barriers Adjacent to Pile-Driving Equipment or Employ Temporary Shields to the Pile-Driving Equipment, Where Necessary and Feasible. The need for and feasibility of noise attenuation barriers/curtains or pile driver shielding will be evaluated on a case-by-case basis by considering the distance to noise-sensitive receptors, the available space at the construction location, safety, and proposed project operations. The noise barriers/curtains will be installed directly around the pile-driving equipment to shield the line of sight from the nearest noise-sensitive receptor, where feasible. Because the equipment would be mostly on the water and pile drivers are high above the water surface, noise barriers may not be feasible or effective to provide sufficient noise reduction, depending on the construction sites and pile-driving activity and equipment specified for each site. Another alternative is to employ shields that are physically attached to the pile drivers. The pile driver shielding is more effective where considerable noise reduction is required.	Timing: During pile driving. Methods: LAHD will include MM NOI-2 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Management Division			

Table 2-1. Mitigation Monitoring and Reporting Program Summary for the Berths 212–224 (YTI) Container Terminal Improvements Project					
Mitigation Measures	Timing and Methods	Responsible Parties			
3.14 Utilities					
MM UT-1: Recycling of Construction Materials. Demolition and/or excess construction materials will be separated on site for reuse/recycling or proper disposal. During grading and construction, separate bins for recycling of construction materials will be provided on site.	Timing: Throughout construction. Methods: LAHD will include MM UT-1 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	 Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Management Division. 			
MM UT-2: Materials with Recycled Content. Materials with recycled content will be used in project construction where feasible.	Timing: Pre-construction material planning and during construction.Methods: LAHD will include MM UT-2 in the contract specifications for construction. LAHD will monitor implementation of mitigation measures during construction.	Implementation: LAHD through Construction Contractor. Monitoring and Reporting: Environmental Management Division, Construction Management Division.			