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Chapter 1 Introduction

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Final Supplemental Environmental Impact Report Organization

This chapter presents background and introductory information for the Revised Project, the continued operation of the China Shipping (CS) Container Terminal, located in the Port of Los Angeles (Port), under new or revised mitigation measures. This chapter also describes the Revised Project and its purpose under CEQA, and presents the authorities of the Los Angeles Harbor Department (LAHD or Port), the Lead Agency preparing this Supplemental Environmental Impact Report (SEIR), the scope and content of the SEIR, and the public outreach for the Revised Project. Chapter 2, "Response to Comments", presents information regarding the distribution of and comments on the Draft SEIR and Recirculated Draft SEIR, and responses of the lead agency. Chapter 3 presents changes made to the Recirculated Draft SEIR.

15 **1.2 CEQA Review Process**

- CEQA was enacted by the California Legislature in 1970 and requires public agency decision makers to consider the environmental effects of their actions. When a state or local agency determines that a proposed project has the potential for significantly adverse environmental effects after mitigation, an EIR is required to be prepared. The purpose of an EIR is to identify potentially significant adverse effects of a proposed project on the environment, to identify alternatives to the proposed project, and to indicate the manner in which those significant effects can be mitigated or avoided.
- In accordance with CEQA Guidelines §15121(a), the purpose of an EIR is to serve as an
 informational document that: "will inform public agency decision-makers and the public
 generally of the significant environmental effect of a project, identify possible ways to
 minimize the significant effects, and describe reasonable alternatives to the project." The
 Revised Project requires discretionary approval from the LAHD and, therefore, it is
 subject to the requirements of CEQA.
- 29The LAHD has prepared this SEIR to supplement and update the Berths 97-109 [China30Shipping] Container Terminal Project Environmental Impact Statement/Environmental31Impact Report (EIS/EIR) certified by the City of Los Angeles Board of Harbor32Commissioners on December 18, 2008 (LAHD and USACE 2008). The 2008 EIS/EIR33evaluated the environmental impacts of the construction and operation of the CS34Container Terminal (the "Approved Project") at Berths 97-109. Construction of the35Approved Project was completed in 2013.

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A Supplemental EIR, as its name implies, supplements an EIR that has already been certified for a project, to address project changes, changed circumstances, or new information that was not known, and could not have been known with the exercise of reasonable diligence at the time the prior document was certified. The purpose of a Supplemental EIR is to provide the additional information necessary to make the previously certified EIR adequate for the project as revised. Accordingly, the Supplemental EIR need only contain the information necessary to respond to the project changes, changed circumstances or new information that triggered the need for additional environmental review (CEQA Guidelines, Section 15163.) A Supplemental EIR does not "re-open" a previously certified EIR or reanalyze the environmental impacts of a project as a whole; the analysis is limited to whether the project changes result in new or substantially more severe significant impacts.

- 13The Revised Project makes minor changes to the continued operation of the CS Container14Terminal by modifying 10 mitigation measures and one lease measure that were15originally adopted based on the 2008 EIS/EIR. This SEIR analyzes the impacts of these16modifications to those mitigation measures, in light of conclusions of the certified 200817EIS/EIR for the CS Container Terminal.
- 18This Final SEIR has been prepared in accordance with the requirements of the California19Environmental Quality Act (CEQA) (Pub. Res. Code §21000 et seq.) and the State20CEQA Guidelines (Cal. Code of Regs. Tit. 14, §15000 et seq.). This SEIR will be used:21to inform decision-makers and the public about the environmental effects associated with22operation of the Revised Project and to propose mitigation measures that would avoid or23reduce the significant adverse environmental effects of the Revised Project.

1.2.1 Notice of Preparation and Scoping Process

25 **1.2.1.1** Notice of Preparation

26 On September 18, 2015, the LAHD issued a Notice of Preparation (NOP) and Initial 27 Study (IS) to inform responsible and trustee agencies, public agencies, and the public that 28 the LAHD was preparing a Supplemental EIR for the Revised Project, pursuant to 29 CEQA. The NOP/IS (State Clearinghouse Number 2003061153) was circulated for a 30-30 day comment period from September 18, 2015, to October 19, 2015, to neighboring 31 jurisdictions, responsible agencies, other public agencies, and interested individuals in 32 order to solicit input on the scope of the environmental analysis to be included in the EIR. 33 The LAHD held a public scoping meeting on October 7, 2015. Two individuals 34 commented at the public meeting and 20 letters commenting on the NOP/IS or supporting 35 or opposing the Project were received during the public comment period. Table 1-3 in 36 Section 1.6 of the Draft SEIR presents a summary of the key comments received during 37 the public comment period on the NOP/IS.

38 **1.2.1.2 Scope of Analysis**

- 39This SEIR has been prepared in conformance with CEQA, the State CEQA Guidelines,40and Port of Los Angeles Guidelines for the Implementation of CEQA; it includes all of41the sections required by CEQA. This SEIR relies on policies and guidelines of the City42of Los Angeles, including the Port of Los Angeles.
- 43The criteria for determining the significance of environmental impacts in this SEIR44analysis are described in the section titled "Significance Criteria" (also referred to as the

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"threshold of significance") under each resource topic in Chapter 3 of the Recirculated Draft EIR. A "Threshold of Significance" is an identified "quantitative, qualitative or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant" (CEQA Guidelines §15064.7 (a)). Except as noted in particular sections of the document, the City of Los Angeles CEQA Thresholds Guide (City of Los Angeles, 2006) are used for purposes of this SEIR, although some criteria were adapted to the specific circumstances of this project.

The following issues have been determined to be potentially significant and, therefore, are evaluated in this SEIR:

- Air Quality
 - Greenhouse Gases and Climate Change
- Transportation

In addition to the above, cumulative impacts are evaluated in the SEIR. No alternatives are considered in this SEIR because, as described in Section 1.7 of the Recirculated Draft SEIR, a supplemental EIR is not required to consider alternatives to a component of the project. Rather, the alternatives analysis in the 2008 EIS/EIR appropriately considered alternatives to the project as a whole. The proposed modifications to the mitigation measures in the Revised Project do not change the Approved Project as a whole and do not require that an alternative be developed that specifically addresses those particular modifications.

The scope of the document, methods of analyses, and conclusions represent the
independent judgment of the LAHD. Staff members from the LAHD and consultants
who helped prepare this EIR are identified in Chapter 6 of the Draft SEIR (List of
Preparers and Contributors).

1.2.2 Draft SEIR and Public Review

28The Draft SEIR was released for public review on June 14, 2017 for a 45-day comment29period, which was extended by 60 days at the request of several interested parties. A30public hearing was held on July 18, 2017, and the comment period ended on September3129, 2017. LAHD received oral and written comments on the Draft SEIR from 3632agencies, organizations, and individuals.

1.2.3 Recirculated Draft SEIR and Public Review

- 34 In response to comments received on the Draft SEIR circulated in 2017, the LAHD 35 determined to add significant new information to the environmental review, requiring that 36 the Draft SEIR be recirculated. In summary, the CEQA baseline year was changed from 37 2014 to 2008, some of the mitigation measures in the Revised Project were altered to 38 incorporate new technology and to align their implementation dates with the date of the 39 new lease amendment, and the project description was revised to include years between 40 2008 and 2019 as the "partial implementation period" when some of the mitigation 41 measures were not fully complied with.
- 42On September 28, 2018, the LAHD released the Recirculated Draft SEIR for a 45-day43comment period ending November 13, 2018. Because the LAHD revised and

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recirculated only certain portions of the Draft SEIR, the Notice of Availability of the Recirculated Draft EIR advised reviewers when submitting comments to limit their comments to the Recirculated Draft SEIR only, consistent with CEQA Guidelines Section 15088.5(f)(2). One oral comment was received at the public hearing held on October 25, 2018, and nine written comments were received by the end of the public review period. The issues raised in the comments were taken into consideration, and a number of changes were made when preparing the Final SEIR.

8 **1.2.4** Final SEIR and Certification

This Final SEIR has been provided to the public for review, comment, and participation in the planning process. This Final SEIR is being distributed to provide the basis for decision making by the CEQA lead agency, as described in Section 1.8 of the Draft SEIR, and other concerned agencies. Certification of the SEIR for the Revised Project must precede Project approval. Project approval requires that the Board review and consider the SEIR; adopt Findings of Fact on the significant environmental effects of the Revised Project and the feasibility of mitigation measures; adopt a Statement of Overriding Considerations; approve the Project analyzed in the EIR; and adopt a Mitigation Monitoring and Reporting Program (MMRP).

18 **1.3 Existing Environmental Setting**

19 1.3.1 Regional Setting

- 20 The Port of Los Angeles (POLA) is the leading seaport in North America in terms of 21 shipping container volume and cargo value, generating more than 830,000 regional jobs 22 (this equates to 1 in 9 jobs in the five-county area) and \$35 billion in annual wages and 23 tax revenues. Operating for more than a century, POLA has been a center for global 24 trade, national cargo transportation and related industrial uses. Together with the Port of 25 Long Beach, it handles up to 64% of all shipping on the West Coast, and about 35% of all 26 shipping in the United States. In Fiscal Year (FY) 2014-2015, POLA handled more than 27 8.1 million TEUs (twenty-foot equivalent units, a standardized maritime industry 28 measurement used when counting cargo containers of varying lengths) of cargo through 29 its terminals.
- 30 LAHD operates the Port under the legal mandates of the Port of Los Angeles Tidelands 31 Trust (Los Angeles City Charter, Article VI, Section 601) and the California Coastal Act 32 (PRC Division 20, Section 30700 et seq.), which identify the Port and its facilities as a 33 primary economic and coastal resource of the State of California and an essential element 34 of the national maritime industry for the promotion of commerce, navigation, fisheries, 35 and harbor operations. Activities should be water dependent, and LAHD must give 36 highest priority to navigation, shipping, and necessary support and access facilities to 37 accommodate the demands of foreign and domestic waterborne commerce. LAHD is 38 chartered to develop and operate the Port to benefit maritime uses. It functions as a 39 landlord by leasing Port properties to more than 300 tenants.
- 40The United States and China are the two largest trading countries in the world, and the41two countries exchange significant amounts of cargo annually. POLA, as the nation's42leading seaport, is a critical hub for facilitating trade from Asia, and China in particular.

1.3.2 **Overview of the CS Container Terminal** 1

Among the LAHD's tenants is China Shipping, which leases premises at Berths 97-109 to operate a marine container terminal (the "CS Terminal"). The CS Terminal is operated by the West Basin Container Terminal Company under a lease agreement (Permit No. 999) between China Shipping (North America) Holding Co., Ltd. ("China Shipping") and LAHD. The premises assigned to China Shipping are located at 2050 John S. Gibson Boulevard, within an industrial area in the vicinity of the West Basin and Turning Basin in Los Angeles Harbor (Figure 1-1).



Figure 1-1. The Berths 97-109 (China Shipping) Container Terminal.

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11 The CS Terminal was constructed in several phases between 2004 and 2013, began 12 operation in 2005, and has operated more or less continuously since then. The terminal is 13 described in more detail in Section 2.5.1 of the Recirculated DSEIR. Briefly, however, it 14 consists of two berths, ten wharf cranes for ship loading, a container yard, and a gate complex. The terminal has access to an on-dock intermodal railyard (the West Basin 15

- Intermodal Container Transfer Facility [WBICTF]) in the adjacent Yang Ming Terminal.
 - The CS Terminal handles imported and exported cargo containers. In 2008 (the Recirculated DSEIR's baseline year for the analysis under CEQA) the terminal handled

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387,004 twenty-foot-equivalent units (TEUs: twenty-foot equivalent units, a measure of containerized cargo capacity) of containerized cargo, or approximately 215,000 containers. The majority of imported containers left the terminal by truck, whether to transload destinations in the region for ultimate placement on eastbound trains, to near-dock and off-dock railyards, or to warehouses and distribution centers for consumption within the region. The remainder were placed directly onto trains at the WBICTF for transport out of the southern California region. Export containers (those leaving the terminal on ships) made the reverse moves in roughly the same proportions. In total, these activities involved approximately 319,000 truck one-way trips, 350 train trips to and from the WBICTF, and 26 vessel calls.

11**1.3.3Project History and Previous Environmental**12**Reviews**

- 13The full background of the CS Terminal is described in detail in sections 1.1.2 and 1.2.3 of14the Recirculated DSEIR. In summary, the LAHD previously prepared and certified the15West Basin Transportation Improvements Program EIR (LAHD, 1997) that assessed the16proposed construction and operation of terminal and infrastructure improvements in the17West Basin of the Port. The document programmatically analyzed the impacts of the18development of three separate container terminals in the West Basin: the CS Terminal, the19Yang Ming Terminal, and the TraPac Terminal.
- 20In March 2001, based on the WBTIP EIR, the Port issued a permit to construct the CS21Terminal in a three-phased project and entered into a lease for China Shipping to occupy22the terminal. The lease (Permit No. 999) granted China Shipping nonexclusive use of2372.48 acres at Berths 100-102 for operation of a container terminal facility for a term of24twenty-five years with three five-year options to extend, exercisable by China Shipping.25LAHD would develop and construct the terminal, designed to optimize operations at Berths2697-109, for its tenant, China Shipping.
- 27 In 2001, opponents of the project filed suit in Los Angeles Superior Court alleging, among 28 other things, that LAHD did not comply with CEQA in approving the construction of the 29 CS Terminal Project. The lawsuit was settled in 2004 through an Amended Stipulated 30 Judgement (ASJ) in which the LAHD committed to preparing a new, project-specific EIR, 31 agreed to mitigation measures, and established a \$50 million community impact fund. 32 Accordingly, in 2008 the U.S. Army Corps of Engineers (USACE) and the LAHD released 33 the Draft Environmental Impact Statement/Environmental Impact Report (LAHD and 34 USACE, 2008) that evaluated the environmental impacts of the construction and operation 35 of the Berths 97-109 (China Shipping) Container Terminal Project. The 2008 EIS/EIR 36 included 52 mitigation measures to reduce the impacts of construction and operation of the 37 CS Terminal. The City of Los Angeles Board of Harbor Commissioners certified the Draft 38 EIS/EIR and approved the project on December 18, 2008 (the Approved Project).
- 39 The major elements of the original development analyzed in the 2008 EIS/EIR included: 40 constructing a new wharf at Berth 102 and lengthening the wharf at Berth 100, with 41 minor dredging to match the West Basin channel depth of -53 feet MLLW; the addition 42 of 10 wharf cranes for vessel loading and unloading; installation of shore power (AMP) 43 facilities at both berths; the expansion and development of 142 acres of terminal 44 backlands; the construction of container terminal buildings, gate facilities and accessory 45 structures; the construction of two new bridges over the Southwest Slip to connect the 46 Berth 97-109 Container Terminal to the Berth 121-131 Marine Terminal; relocation of

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11 12 the Catalina Express Terminal; and the construction of road improvements in the vicinity. The new wharves would accommodate the largest vessels then envisioned (10,000 TEU capacity). Construction was largely completed by 2013 (two terminal buildings have yet to be constructed), and operations are ongoing.

The 2008 EIS/EIR assumed that at full capacity, in 2030, the CS Container Terminal would handle approximately 1,551,000 TEUs per year, which is roughly equivalent to 838,000 standard shipping containers per year. That throughput would require approximately 1,500,000 truck trips, 234 vessel calls, and 817 train trips per year. Those numbers were based on cargo forecasting performed in 2005. The document assumed that at full capacity approximately 83% of the containers would be moved in and out of the terminal by truck (including to and from regional intermodal railyards) and the rest would be moved by trains from the WBICTF.

- 13 On September 18, 2015, the LAHD issued a Notice of Preparation (NOP) to inform 14 responsible and trustee agencies, public agencies, and the public that the LAHD was 15 preparing a Draft Supplemental Environmental Impact Report (Draft SEIR) to 16 supplement and update the 2008 EIS/EIR. The scope and purpose of a supplemental EIR 17 are fully described in Section 1.1.4 of the Recirculated DSEIR. To summarize, a 18 supplemental EIR is prepared to address project changes, changed circumstances, or new 19 information that was not known, and could not have been known at the time the prior 20 document was certified, and need only contain the information necessary to respond to 21 those changes. The purpose of a supplemental EIR is to provide the additional 22 information necessary to make the previously certified EIR adequate for the project as 23 revised.
- 24 The new information that prompted the LAHD to prepare a supplemental EIR included 1) 25 issues raised by China Shipping regarding the feasibility of some of the mitigation 26 measures in the 2008 EIS/EIR; 2) changed traffic and roadway conditions that called into 27 question the need for some of the transportation-related mitigation measures; and 3) the 28 partial implementation of some of the mitigation measures. The details of the partial 29 implementation of mitigation measures are presented in Section 2.5.1 of the Recirculated 30 DSEIR. China Shipping did not sign an amendment to the lease that incorporated the 31 mitigation measures related to operation of the CS Terminal, and as a result the Port was 32 unable to ensure implementation of those measures. In subsequent negotiations, China 33 Shipping raised a number of feasibility and economic issues related to mitigation 34 measures aimed at reducing air pollution from ships, cargo-handling equipment, and trucks (see Section 1.2.4 of the Recirculated Draft SEIR). 35
- 36Operations between 2005 and 2017 included implementation of ASJ requirements and37most of the mitigation measures imposed in the 2008 EIS/EIR, but, as described in Table381-1, some mitigation measures were incompletely implemented or not implemented at all39beginning in 2008. Those mitigation measures included MM AQ-9 (AMP), MM AQ-1040(VSRP), MM AQ-15 (Yard Tractors), MM AQ-16 (Railyard CHE), MM AQ-17 (Berth4197-109 CHE), and MM AQ-20 (LNG Drayage Trucks).

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Table 1-1. Summary of 2008 EIS/EIR mitigation and lease measures for the CS Container Terminal being re-evaluated in this SEIR.

2008 EIR/EIS Measure	Description	Status through 2017
MM AQ-9 Alternative Maritime Power	China Shipping ships calling at Berths 97-109 must use AMP in the following percentages while hoteling in the Port. Jan-Jun 2005: 60%; July 2005: 70%; Jan 2010: 90%; Jan 2011: 100%. Additionally, by 2010, all ships retrofitted for AMP shall be required to use AMP while hoteling at a 100 percent compliance rate, with the exception of circumstances when an AMP- capable berth is unavailable due to utilization by another AMP-capable ship.	Compliance (% of China Shipping operated vessel calls): 2008: 86% 2009: 78% 2010: 72% 2011: 66% 2012: 12% 2013: 30% 2014: 93% 2015: 92% 2016: 99% 2017: 96%
MM AQ-10 Vessel Speed Reduction Program	Starting in 2009, all ships calling at Berths 97- 109 shall comply with the expanded VSRP of 12 knots between 40 nm from Point Fermin and the Precautionary Area.	Compliance (% of all call to Berths 97-109): 2008: 97% within 20 nm and 24% within 40 nm 2009: 99% within 20 nm and 20% within 40 nm 2010: 97% within 20 nm and 42% within 40 nm 2011: 99% within 20 nm and 41% within 40 nm 2012: 93% within 20 nm and 47% within 40 nm. 2013: 99% within 20 nm and 89% within 40 nm 2014: 99% within 20 nm and 96% within 40 nm 2015: 99% within 20nm and 98% within 40nm 2016: 100% within 20nm and 96% within 40nm 2017: 96% within 20 nm and 91% within 40 nm
MM AQ-15 Yard Tractors at Berth 97-109 Terminal	All yard tractors operated at the Berth 97-109 terminal shall run on alternative fuel (LPG) beginning September 30, 2004, until December 31, 2014 Beginning January 1 2015, all yard tractors operated at the Berths 97-109 terminal shall be the cleanest available NO _X alternative-fueled engine meeting 0.015 gm/hp-hr for PM (Tier 4 Final).	From 2004 through 2014, all yard tractors met requirement to run on LPG. As of December 31, 2017 all yard tractors are alternative-fueled LPG, but they do not meet Tier 4 Final standard requirements.
MM AQ-16 Yard Equipment at Berth 121-131 Rail Yard	By the end of 2012, all equipment less than 750 hp shall meet the USEPA Tier 4 on-road or Tier 4 non-road engine standards. By December 31, 2014, all diesel-powered equipment operated at the Berth 121-131 terminal rail yard that handles containers moving through the Berth 97-109 terminal shall meet USEPA Tier 4 non-road engine standards.	During 2012, not all equipment less than 750 hp that operates at the railyard met Tier 4. During 2014, not all equipment that operates at the railyard met Tier 4 as shown in MM AQ-17 below. As of the end of 2017, not all equipment that operates at the railyard met Tier 4 as shown in MM AQ-17 below.

2008 EIR/EIS Measure	Description	Status through 2017
MM AQ-17 Yard Equipment at Berth 97-109 Terminal	Starting September 30, 2004: All diesel- powered toppicks and sidepicks operated at the Berth 97-109 terminal shall run on emulsified diesel fuel plus a DOC (ASJ Requirement). Starting January 1, 2009, all RTGs shall be electric, all toppicks shall have the cleanest available NO _X alternative fueled engines meeting 0.015 gm/hp-hr for PM, and all equipment purchases other than yard tractors, RTGs, and toppicks shall be either (1) the cleanest available NO _X alternative-fueled engine meeting 0.015 gm/hp-hr for PM or (2) the cleanest available NO _X diesel-fueled engine meeting 0.015 gm/hp-hr for PM. If there are no engines available that meet 0.015 gm/hp-hr for PM, the new engines shall be the cleanest available (either fuel type) and will have the cleanest VDEC. By the end of 2012: all terminal equipment less than 750 hp other than yard tractors, RTGs, and toppicks shall meet USEPA Tier 4 on-road or off-road engine standards. By the end of 2014: all terminal equipment other than yard tractors, RTGs, and toppicks shall meet USEPA Tier 4 non-road engine standards. In addition to the above requirements, the tenant at Berth 97-109 shall participate in a 1- year electric yard tractor [truck] pilot project. As part of the pilot project, two electric tractors will be deployed at the terminal within 1 year of lease approval. If the pilot project is successful in terms of operation, costs and availability, the tenant shall replace half of the Berth 97-109 yard tractors with electric tractors within 5 years of the feasibility determination.	During 2008, toppicks and side-picks had DOCs and run on emulsified fuel, meeting the requirement for 2008. As of the end of 2014, none of the RTGs were electric (one is hybrid diesel-electric and the others are diesel), none of the toppicks were alternative-fueled; and only four met the 0.015 gm/hp-hr PM standard, and none of the other equipment covered by MM AQ-17 met Tier 4. As of the end of 2017, none of the RTGs are electric (six are hybrid diesel-electric and the rest are diesel), none of the toppicks are alternative-fueled; and not all of the equipment covered by MM AQ-17 meets Tier 4 standards. The 1-year electric yard tractor [truck] pilot project was not implemented.
MM AQ-20 LNG Trucks	Heavy-duty trucks entering the Berth 97-109 Terminal shall be LNG fueled in the following percentages: 50% in 2012 and 2013, 70% 2014 through 2017, 100% in 2018 and thereafter.	In 2012, 10% of truck calls at WBCT (including the CS terminal) were made by LNG trucks. In 2014, 6% of truck calls at WBCT (including the CS terminal) were made by LNG trucks, which is lower than the port-wide average of 10%.
LM AQ-23 Throughput Tracking	If the Project exceeds project throughput assumptions/projections anticipated through the years 2010, 2015, 2030, or 2045, staff shall evaluate the effects of this on the emissions sources (ship calls, locomotive activity, backland development, and truck calls) relative to the EIS/EIR. If it is determined that these emission sources exceed EIS/EIR assumptions, staff would evaluate actual air emissions for comparison with the EIS/EIR and if the criteria pollutant emissions exceed those in the EIS/EIR the new or additional mitigations	LAHD Wharfingers throughput data was reported as 690,597 TEUs in 2010 and 1,074,788 TEUs in 2015. Actual TEU throughput slightly exceeded the 2008 EIR projection of 605,200 TEUs for 2010 but did not exceed the projection of 1,164,400 TEUs for 2015.

2008 EIR/EIS Measure	Description	Status through 2017
	would be applied through MM AQ-22 Periodic Review of New Technology Regulations.	
MM TRANS-2 Alameda and Anaheim Streets	Provide an additional eastbound through-lane on Anaheim Street. This measure shall be implemented by 2015.	Not implemented.
MM TRANS-3 John S. Gibson Boulevard and I- 110 NB Ramps	Provide an additional southbound and westbound right-turn lane on John S. Gibson Boulevard and I-110 NB ramps. Reconfigure the eastbound approach to one eastbound through-left-turn lane, and one eastbound through-right-turn lane. Provide an additional westbound right-turn lane with westbound right-turn overlap phasing. This measure shall be implemented by 2015.	Most of the requirement is being met through the completion of the John S. Gibson Blvd/I-110 Access Ramps and SR-47/I-110 Connector Improvements Project except to provide an additional westbound right-turn lane with westbound right- turn overlap phasing by 2015.
MM TRANS-4 Fries Avenue and Harry Bridges Boulevard	Provide an additional westbound through-lane on Harry Bridges Boulevard. Provide an additional northbound, eastbound, and westbound right-turn lane on Fries Avenue and Harry Bridges Boulevard. This measure shall be implemented by 2015.	Not implemented.
MM TRANS-6 Navy Way and Seaside Avenue	Provide an additional eastbound through-lane on Seaside Avenue. Reconfigure Modify Navy Way/Seaside Ave	Not implemented.

The Draft SEIR and the Recirculated Draft SEIR evaluated the continued operation of the CS Terminal under new and/or modified mitigation measures and also analyzed the impacts of the increased future throughput of the CS Terminal compared to the projections in the 2008 EIS/EIR. These changes are collectively referred to as the "Revised Project." The term "Revised Project" is used throughout the SEIR to encompass the broadest set of modifications to the Approved Project, the details of which are described in Section 2.5 of the Draft SEIR.

USACE was the federal lead agency for the Approved Project under the National Environmental Policy Act (NEPA) (U.S. Code [USC Title 42, Section 4341 et seq.) and in conformance with the Council for Environmental Quality (CEQ) Guidelines. However, because the Revised Project does not include any elements requiring federal action, including approvals, a NEPA document is not required and was not prepared.

15 **1.4 Revised Project**

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This section describes the Revised Project, including its objectives and its key elements.

17 **1.4.1 Revised Project Overview**

18	Most of the mitigation measures in the 2008 EIS/EIR have either been completed or will
19	be completed within the time period for implementation; in addition, all of the
20	requirements of the ASJ have been met. Accordingly, those measures and the ASJ

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- 1 requirements are outside of the scope of the Revised Project and are not considered in 2 this SEIR. 3 Of the 52 measures adopted in the 2008 EIS/EIR, 10 mitigation measures and one lease 4 measure have not yet been fully implemented (Table 1-1). A re-evaluation of those 5 measures, based on the feasibility of some of the measures, the subsequent availability of 6 alternative technologies, and the actual need, has indicated that some may be 7 unnecessary, others have been superseded by advances in technology, and still others 8 need to be either modified to ensure their feasibility. 9 LAHD has proposed certain changes to the operational mitigation measures in Table 1-1 10 as the Revised Project, and the impacts of those potential changes to the CS Container Terminal's operations are analyzed and disclosed in this SEIR. For the Revised Project, 11 12 some of the mitigation measures in Table 2-1 would be eliminated or modified, as 13 described in Section 1.4.3, below. Some of these modifications differ from the measures 14 described in the 2017 Draft SEIR in order to incorporate more recent technological 15 developments, changes in technical analysis methodology, points raised in public 16 comments received on the 2017 Draft SEIR, and the passage of time since the Draft SEIR 17 was prepared. 18 The SEIR analyzes the impacts of the Revised Project under the assumption that 19 throughput at the CS Container Terminal will be incrementally higher than was assumed 20 in the 2008 EIS/EIR, consistent with LAHD's re-assessment of terminal capacity. The 21 SEIR examines whether the proposed modifications to mitigation measures can be further 22 revised, or if there are any additional feasible mitigation measures that could be adopted,
- to address such impacts. If the proposed modifications to the mitigation measures, other
 changes to the mitigation measures, or entirely new mitigation measures are
 recommended as a result of the SEIR, the Board of Harbor Commissioners will consider
 amending Permit No. 999 for operations at Berths 97-109 accordingly.

27 **1.4.2 Proposed Project Objectives**

In the 2008 EIS/EIR, the LAHD's overall objectives for the CS Container Terminal were threefold: (1) provide a portion of the facilities needed to accommodate the projected growth in the volume of containerized cargo through the Port; (2) comply with the Mayor's goal for the Port to increase growth while mitigating the impacts of that growth on the local communities and the Los Angeles region by implementing pollution control measures, including the elements of the Clean Air Action Plan (CAAP) applicable to the proposed Project; and (3) comply with the Port Strategic Plan to maximize the efficiency and capacity of terminals while raising environmental standards through application of all feasible mitigation measures.

The overall purpose of the Revised Project is to further the second and third objectives by
eliminating some previously adopted measures that have proved to be infeasible or
unnecessary; instituting new, feasible, mitigation measures; and modifying other existing
measures to enhance their effectiveness.

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1 1.4.3 Revised Project Elements

1.4.3.1 Proposed Modifications to 2008 EIR Mitigation Measures and Lease Measures

MM AQ-9 – Alternative Maritime Power (AMP)

MM AQ-9 (LAHD and USACE, 2008) required that China Shipping ships calling at Berths 97-109 must use AMP in the following percentages while hoteling in the Port: January 1 –June 30 2005: 60% of total ship calls; 1 July 2005: 70% of total ship calls (ASJ requirement); 1 January 2010: 90% of ship calls; 1 January 2011 and thereafter: 100% of ship calls. Additionally, by 2010, all ships retrofitted for AMP shall be required to use AMP while hoteling at a 100 percent compliance rate, with the exception of circumstances when an AMP-capable berth is unavailable due to utilization by another AMP-capable ship.

- 13 Several factors affect the ability of a container terminal to achieve the goal of having 14 100% of vessel calls use shore power. These factors, recognized by CARB, are the 15 reason why CARB's shore power requirement is 50% of calls until 2017 and is capped at 16 80 percent of vessel calls by 2020. First, very few terminals service only the vessels of a 17 single shipping line; most, including the CS Terminal, have a core business of vessels 18 belonging to one shipping company or those of a consortium ("alliance") of a few 19 shipping companies, but also accept third-party business. The core line of the CS 20 Terminal, for example, is China Shipping, but the terminal accepts a number of third-21 party vessels, including Yang Ming and alliance members UASC and CMA-CGM. This 22 business is important to international commerce and to the financial viability of 23 individual terminals. This third-party business may involve vessels that have not been 24 equipped to use shore power. Accordingly, some proportion of vessel calls cannot use 25 AMP because the vessels are not equipped to do so.
- Second, situations arise that prevent an AMP-capable vessel from utilizing AMP. These
 include emergency situations, as defined in 17 CCR Section 93118.3(c)14, involving
 either the vessel or the electric utility, and equipment failure involving the vessel, the
 AMP facility at the berth, or the electric utility.
- Finally, a small percentage of the vessels that call at a given container terminal are
 operated by shipping lines that do not meet the CARB required minimum of 25 annual
 calls (CARB, 2007a, b); those vessels tend not to be outfitted to connect to shore power.
 For these vessels, alternative emissions control technology is the only possible option.
- 34Although the goal of the Approved Project was 100 percent compliance for China35Shipping vessels, the LAHD (as well as CARB) recognizes that the factors summarized36above may prevent China Shipping from always achieving that goal. The Revised37Project requires that:
 - Starting on the effective date of a new lease amendment between the Tenant and the LAHD and annually thereafter, all ships calling at Berths 97-109 must use AMP while hoteling in the Port, with a 95 percent compliance rate. Exceptions may be made if one of the following circumstances or conditions exists:
 - 1) Emergencies
 - 2) An AMP-capable berth is unavailable

1 2	3) An AMP-capable ship is not able to plug in4) The vessel is not AMP-capable.
3 4 5 6 7 8 9	In the event one of these circumstances or conditions exist, an equivalent alternative at-berth emission control capture system shall be deployed, if feasible, based on availability, scheduling, operational feasibility, and contracting requirements between the provider of the equivalent alternative technology and the terminal operator. The equivalent alternative technology must, at a minimum, meet the emissions reductions that would be achieved from AMP.
10 11 12 13	For analysis purposes, compliance with this mitigation measure is assumed not to exceed 95%, in order to accommodate the exceptional circumstances in 1-4, above. The revised measure is consistent with the 2017 CAAP, as described above, and AMP requirements in recently certified EIRs.
14	MM AQ-10 – Vessel Speed Reduction Program
15 16 17 18 19	MM AQ-10 (LAHD and USACE, 2008) required that as of 2009, 100% of oceangoing vessels calling the CS Container Terminal comply with the Vessel Speed Reduction Program (VSRP) within a 40-nautical-mile (nm) radius of Point Fermin. The VSRP was initially (2005) established as a 20-nm-radius, but MM AQ-10 extended the radius to 40 nautical miles.
20 21 22 23 24 25	From 2008 through 2014 vessels calling the CS Container Terminal had very high compliance rates (93-99%) within the 20-mile zone but much lower rates in the 40-mile zone. Compliance in the 40-mile zone was particularly low in 2008 – 2012 (from 20% in 2009 to 47% in 2012) but rose to 89% in 2013 and 96% in 2014. While the high rates of compliance in 2014 were consistent with the other container terminals in the Port, they fell somewhat short of the 100% required by the mitigation measure.
26 27 28 29 30	The need to slow down vessels within the VSRP 40 nm radius is built in to the voyage plans of most shipping lines. Vessels calling the Port's major container terminals typically achieve high rates of compliance, some maintaining 100% compliance in the inner portion of the VSRP radius (20 nm) and several, including China Shipping, achieving or approaching 100% throughout the entire VSRP.
31 32 33 34 35 36 37 38 39 40 41 42 43 44	Although the compliance rate of vessels calling the CS Terminal has approached 100% in many years, not all vessels will be able to comply with VSRP requirements due to unavoidable practical need to increase speed for various reasons. Non-compliance with the VSRP is typically the result of pressure on vessel schedules caused by weather, port delays, and mechanical problems. In addition, meeting scheduled time slots for shorter voyages (e.g., to or from Oakland) may require higher vessel speeds: if, despite operating at higher than economic speeds outside the VSRP area, a vessel is still behind schedule as it approaches Los Angeles Harbor, it may have to continue at a higher speed in some part of the VSRP control radius. For example, operating at 17 knots instead of 12 knots would allow a vessel to make up an hour of time in the 40-mile zone. In addition, vessel schedules are coordinated to avoid incurring container terminal labor standby costs, so that increased speed may be necessary to arrive at a berth in time to utilize labor efficiently. Accordingly, while 100% compliance may be achieved in any given year, that rate cannot be sustained over a period of years.

1	For MM AQ-10, the Revised Project requires that:
2 3 4 5 6	Starting on the effective date of a new lease amendment between the Tenant and the LAHD and annually thereafter, at least 95 percent of vessels calling at Berths 97-109 shall comply with the expanded VSRP of 12 knots between 40 nm from Point Fermin and the Precautionary Area.
7 8 9 10 11	Note that the Revised Project's MM AQ-10 analyzed in the Draft SEIR and the Recirculated Draft SEIR included a provision that the tenant could submit an alternative compliance plan that achieved equal or greater emissions reductions. However, in response to comments on the Recirculated Draft SEIR the LAHD modified MM AQ-10 to eliminate that provision.
12 13 14 15 16 17 18	The 95% requirement at 40 nm is consistent with recent POLA EIRs and with how shipping lines at terminals have been performing at POLA. It incorporates the realities of oceangoing cargo vessel operation and the need to maintain economic competitiveness. Furthermore, the actual effect on air quality and public health of requiring 95% rather than 100% would be negligible given the relatively small contribution of at-sea vessel emissions on health risk and the already-high level of compliance with the 12-knot requirement.
19	MM AQ-15 –Yard Tractors
20 21 22 23	MM AQ-15 (LAHD and USACE, 2008) required all yard tractors to run on alternative fuel (LPG) between September 30, 2004, and December 31, 2014, and that beginning January 1, 2015, all yard tractors must be the cleanest available NO _x alternative-fueled engine meeting 0.015 gm/hp-hr for PM.
24 25 26	As of the end of 2014, all yard tractors operating at the CS Container Terminal were alternative fuel-powered, and thus complied with the provision of MM AQ-15 requiring alternative-fuel power.
27 28 29 30 31	In light of changes in engine technology since the 2008 EIS/EIR was prepared, the 2017 Draft SEIR proposed that MM AQ-15 be revised to require yard tractors to meet Tier 4 standards for all criteria pollutants. Subsequent developments, however, have indicated that new engines can meet an ultra-low NO _x standard; accordingly, the measure was further revised in the Recirculated Draft EIR to incorporate that standard.
32	Revised Project Modification
33	For the Revised Project, MM AQ-15 requires that:
34 35 36 37 38	• No later than one year after the effective date of a new lease amendment between the Tenant and the LAHD, all LPG yard tractors of model years 2007 or older shall be replaced with alternative-fuel units that meet or are lower than a NOx emission rate of 0.02 g/bhp-hr and Tier 4 final off-road emission rates for other criteria pollutants.
39 40 41 42 43	• No later than five years after the effective date of a new lease amendment between the Tenant and the LAHD, all LPG yard tractors of model years 2011 or older shall be replaced with alternative fuel units that meet or are lower than a NOx emission rate of 0.02 g/bhp-hr and Tier 4 final off-road engine emission rates for other criteria pollutants.
44 45	The revised mitigation measure takes into account the uncertainty in the timing of the measure given the time needed to certify the SEIR and execute a new lease amendment.

 The measure will ensure that the CS Terminal will transition to the current cleanest available yard tractor technology within five years of the new lease amendment. For the longer term, however, the 2017 CAAP envisions that by 2030 the Port will rely on zeroand near-zero-emissions technologies for all cargo-handling equipment, consistent with CARB's March, 2017, initiative to amend the cargo-handling regulation to achieve up to 100% zero-emissions by 2030. In order to meet that goal, current yard tractors will need to be replaced by zero-emissions (i.e., electric-powered) tractors over the next ten years. At the time of publication of this SEIR, as discussed in the 2017 CAAP, zero-emissions tractors have not been demonstrated to be operationally feasible in a container terminal setting, but through the 2017 CAAP the Port has committed to an aggressive program of testing electric yard tractors at terminals.

The 2017 CAAP also obligates the Port and the terminal operators, including WBCT (the operator of the CS Terminal), to a firm process of evaluating terminal equipment and developing a ten-year procurement schedule for new cargo-handling equipment; the terminals are required to submit their schedules by January 1, 2019 and to update the schedules annually. By working with the terminals through their procurement schedules, grant funding, and lease terms, and taking into account the results of periodic feasibility assessments, the Port will ensure that terminal operators purchase the cleanest available equipment, emphasizing zero- and near-zero-emissions equipment. For the Revised Project, LM AQ-1 (see Section 1.4.3.2) requires the CS Terminal to participate in the CAAP's equipment procurement process.

MM AQ-16 – Railyard Cargo-Handling Equipment

- In accordance with the ASJ, MM AQ-16 required that the CHE at the WBICTF on-dock railyard be exclusively LPG-fueled from 2004 to 2014. The measure further required that by end of 2014, all such equipment meet Tier 4 off-road or on-road engine standards. The equipment used at the railyard is the same CHE used in the container yards of the CS and YM terminals, i.e., yard tractors that transfer containers between the container yard and the railyard, and toppicks that load and unload trains and trucks. Accordingly, the intent of this measure is fulfilled by controlling yard tractors and CHE through MM AQ-15 and MM AQ-17.
- 31 Revised Project Modification
 - MM AQ-16 has been combined with MM AQ-17 because there is no feasible way to identify railyard, as opposed to container yard, equipment, and because implementation of AQ-15 and AQ-17 will control emissions associated with CHE handling CS cargo.
- 35 MM AQ-17 Cargo Handling Equipment
 - In accordance with the ASJ, MM AQ-17 required that by September 30, 2004 all toppicks be equipped with diesel oxidation catalysts (DOCs) and use emulsified diesel fuel. MM AQ-17 further required that, beginning in 2009, all RTGs must be electric powered, all toppicks must have cleanest available NO_x alternative fuel engine meeting EPA Tier 4 standards for PM, and new equipment purchases must be either cleanest alternative fuel or cleanest diesel with cleanest verified control equipment; by the end of 2012, all equipment less than 750 hp (which includes all CHE at the CS terminal) must meet EPA Tier 4 off-road or on-road engine standards; and by the end of 2014, all equipment must meet Tier 4 non-road engine standards.
- 45By 2004, all of the forklifts and top handlers met the ASJ requirements for emulsified46diesel and DOCs. Since the further provisions of MM AQ-17 were not in effect until472009, the CHE working at the CS Terminal in 2008 complied with the measure's

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requirements. The requirements for all-electric RTGs and cleanest-available top-picks in 2009 were not met. The implementation dates for the conversion of all other CHE to Tier 4 non-road standards were also not met.

All-electric RTGs are not only much more expensive to purchase than either dieselpowered or hybrid units, but their installation at a container terminal requires substantial and costly modifications of the container yard to accommodate the necessary power trenches and transformers. In addition, space constraints in much of the container yard prevent the installation of electric RTGs throughout the terminal; in most of the container yard the RTGs operate on short rows of containers which precludes the efficient deployment of electric RTGs because the electrical infrastructure does not permit electric RTGs to operate on multiple rows.

- 12As described in Section 1.2.4.2 of the Recirculated Draft SEIR, China Shipping informed13the Port that replacing the top-picks and side-picks with Tier 4 non-road standard14compliant units would be prohibitively expensive and require the retirement of units with15useful life remaining. The same economic constraints would apply to other cargo-16handling equipment such as forklifts.
- 17 To achieve the objectives of the 2017 CAAP and of the original 2008 EIS/EIR, existing 18 equipment must be replaced by equipment that meets more stringent emissions standards, 19 including zero- and near-zero emission units as feasible. In the case of RTGs, WBCT 20 confirmed that four electric RTGs could be deployed in what is known as the "surcharge 21 area" at the terminal because this area has the necessary infrastructure. The surcharge 22 area is a block area in the northern portion of the terminal that lies south of the waterway 23 and bridges connecting to the adjacent YM Terminal. In the remainder of the terminal, 24 the all-diesel RTGs could be replaced by diesel-electric hybrids. In fact, six of WBCT's 25 RTGs in 2016 were diesel-electric hybrid models. These hybrids, called EcoCranes, 26 provide significant emission reductions compared to diesel RTGs (74% PM and 84% 27 NO_x reduction).
- 28 With regard to the other CHE, engines meeting EPA Tier 4 off-road standards are 29 available for heavy-duty forklifts and toppicks. Accordingly, the 2017 Draft SEIR 30 revised MM AO-17 to require replacement of existing toppicks and heavy-duty forklifts 31 with units meeting Tier 4 standards, the replacement of lighter-duty forklifts with electric 32 units, and the replacement of sweepers with cleanest-available units, and the replacement 33 of shuttle buses with zero-emissions units by 2025. The replacement schedule for CHE 34 incorporated the useful economic service life of the existing equipment and the high 35 capital costs (e.g., \$650,000 per unit for toppicks; LAHD, 2016) but accelerated the 36 replacement. The Recirculated Draft SEIR further revises the measure to replace the 37 calendar day compliance dates with dates related to the execution of a new lease 38 amendment.
- 39 Revised Proj
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Revised Project Modification

- For the Revised Project, MM AQ-17 is revised as follows: All yard equipment at the terminal except yard tractors shall implement the following requirements:
- 42 <u>Forklifts</u>:
 - By one year after the effective date of a new lease amendment between the Tenant and the LAHD, all 18-ton diesel forklifts of model years 2004 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.

1 2 3 4	• By two years after the effective date of a new lease amendment between the Tenant and the LAHD, all 18-ton diesel forklifts of model years 2005 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
5 6 7	• By two years after the effective date of a new lease amendment between the Tenant and the LAHD, all 5-ton forklifts of model years 2011 or older shall be replaced with zero-emission units.
8 9 10 11	• By three years after the effective date of a new lease amendment between the Tenant and the LAHD, all 18-ton diesel forklifts of model years 2007 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
12	Toppicks:
13 14 15 16	• By one year after the effective date of a new lease amendment between the Tenant and the LAHD, all diesel top-picks of model years 2006 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
17 18 19 20	• By three years after the effective date of a new lease amendment between the Tenant and the LAHD, all diesel top-picks of model years 2007 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
21 22 23 24	• By five years after the effective date of a new lease amendment between the Tenant and the LAHD, all diesel top-picks of model years 2014 and older shall be replaced with units that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
25	Rubber-Tired Gantries:
26 27 28 29	• By three years after the effective date of a new lease amendment between the Tenant and the LAHD, all diesel RTG cranes of model years 2003 and older shall be replaced with diesel-electric hybrid units with diesel engines that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
30 31 32 33	• By five years after the effective date of a new lease amendment between the Tenant and the LAHD, all diesel RTG cranes of model years 2004 and older shall be replaced with diesel-electric hybrid units with diesel engines that meet or are lower than Tier 4 final off-road engine emission rates for PM and NOx.
34 35 36 37 38	• By seven years after the effective date of a new lease amendment between the Tenant and the LAHD, four RTG cranes of model years 2005 and older shall be replaced with all-electric units, and one diesel RTG crane of model year 2005 shall be replaced with a diesel-electric hybrid unit with a diesel engine that meets or is lower than Tier 4 final off-road engine emission rates for PM and NOx.
39	Sweepers:
40 41	• Sweeper(s) shall be alternative fuel or the cleanest available by six years after the effective date of a new lease amendment between the Tenant and the LAHD.
42	Shuttle Buses:
43 44	• Gasoline shuttle buses shall be zero-emission units by seven years after the effective date of a new lease amendment between the Tenant and the LAHD.
45 46	The revised mitigation measure takes into account the uncertainty in the timing of the measure given the time needed to certify the SEIR and execute a new lease amendment.

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The phase-in schedules for the various equipment types take into account the economics of the useful life of the existing equipment and the realities of acquiring large numbers of new equipment.

The revised measure will ensure that the CS Terminal will transition to the then-current cleanest available technology for most major cargo-handling equipment within five years of the new lease amendment. For the longer term, however, the 2017 CAAP envisions that by 2030 the Port will rely on zero- and near-zero-emissions technologies for all cargo-handling equipment, consistent with CARB's March, 2017, initiative to amend the cargo-handling regulation to achieve up to 100% zero-emissions by 2030. In order to meet that goal, current equipment will need to be replaced by zero-emissions (i.e., electric-powered) equipment over the next ten years. At the time of publication of this SEIR, zero-emissions toppicks and heavy-duty forklifts have not been demonstrated to be operationally feasible in a container terminal setting, but through the 2017 CAAP the Port has committed to an aggressive program of testing such equipment at terminals. Electric mobile gantry cranes (rubber-tired and rail-mounted) are commercially available, but because they require substantial supporting infrastructure their deployment is more involved than for forklifts and toppicks. Nevertheless, some are already in use in the Port, and the 2017 CAAP commits the Ports to increasing the deployment of all-electric cranes.

20 The 2017 CAAP also obligates the Port and the terminal operators, including WBCT (the 21 operator of the CS Terminal), to a firm process of evaluating terminal equipment and 22 developing a ten-year procurement schedule for new cargo-handling equipment; the 23 terminals are required to submit their schedules by January 1, 2019 and to update the 24 schedules annually. By working with the terminals through their procurement schedules, 25 grant funding, and lease terms, and taking into account the results of periodic feasibility 26 assessments, the Port will ensure that terminal operators purchase the cleanest available 27 equipment, emphasizing zero- and near-zero-emissions equipment. For the Revised 28 Project, LM AQ-1 (see Section 1.4.3.2) requires the CS Terminal to participate in the 29 CAAP's equipment procurement process.

30 MM AQ-20 – LNG Trucks

- 31 The 2008 EIS/EIR proposed MM AQ-20 to reduce the emissions of drayage trucks arriving at and departing from the CS Container Terminal. The measure required that 32 33 LNG-fueled drayage trucks be used to convey containers to and from the terminal. The 34 requirement has three phases: from 2012 through 2014, at least 50% of drayage trucks 35 calling the terminal must be LNG-powered, from 2015 through 2017 at least 70%, and 36 thereafter 100%. The 2008 EIS/EIR envisioned that LAHD would be responsible for the 37 trucks and WBCT (the terminal operator) would be responsible for necessary gate 38 modifications and operations to ensure compliance.
- 39 By the end of 2008, there were no LNG-fueled drayage trucks calling the CS Container 40 Terminal because none were in service yet (the Port's LNG truck program was launched 41 in 2009); note, however, that MM AQ-20 did not require LNG trucks until 2012. 42 Accordingly, the CS Terminal was in compliance with MM AO-20. As described in a 43 study of the port drayage industry conducted by LAHD (LAHD, 2017), the requirement 44 of MM AQ-20 is considered infeasible at the time of publication of this SEIR because of 45 industry structural constraints, truck technology constraints, and financial constraints. 46 These factors are described in detail in Section 2.5.2.1 of the Recirculated Draft SEIR.

1	Revised Project Modification
2 3	There is no feasible substitute or replacement measure for requiring a terminal-specific drayage truck fleet. Accordingly, the Revised Project does not include MM AQ-20.
4 5 6 7 8	With the implementation of a new port-wide Clean Trucks Program as required by the 2017 CAAP's goal to transition to zero-emissions technologies by 2035, future emission reductions from drayage would be achieved; however, no credit can be taken at this time. Furthermore, the Revised Project includes a new lease measure, LM AQ-2, below, that is expected to further reduce emissions from drayage trucks.
9	LM AQ-23 Throughput Tracking
10 11 12 13 14 15 16 17 18	The 2008 EIS/EIR included MM AQ-23, which required China Shipping to provide records of terminal throughput, in order to be able to assess whether actual future operations of the CS Container Terminal exceeded throughput assumptions on which the impact assessments, and therefore the mitigation measures, were based. If it was determined that these emissions sources exceed 2008 EIS/EIR assumptions, then staff would evaluate actual air emissions for comparison with the 2008 EIS/EIR. If that evaluation showed that criteria pollutant emissions exceeded those in the 2008 EIS/EIR, then new or additional mitigations would be applied through MM AQ-22 Periodic Review of New Technology and Regulations.
19 20 21 22	The measure was re-designated a lease measure (LM AQ-23) in the 2008 FEIR because it did not mitigate an identified impact. LM AQ-23 was to be applied through the LAHD's lease with China Shipping. Although the lease amendment was never implemented, the throughput tracking occurs through standard Port data collection.
23 24 25 26 27 28 29 30 31	Actual throughput has generally exceeded the projections in the 2008 EIS/EIR. However, the new analysis in the SEIR already takes into account the maximum capacity of the terminal and growth in TEU volume and applies all feasible mitigation measures to address future air quality impacts. Accordingly, periodic reviews of throughput are unnecessary. Furthermore, new technologies would continue to be considered and applied under Lease Measure AQ-22 Periodic Review of New Technology and Regulations, since this requirement is not being changed. Finally, new Lease Measure AQ-1, below, would ensure a regular check-in process and evaluation of the cleanest available technology when equipment is purchased or replaced by the tenant.
32	Revised Project Modification
33	LM AQ-23 is not included in the Revised Project.
34	MM TRANS-2, TRANS-3, TRANS-4, and TRANS-6
35 36 37 38 39 40	The 2008 EIS/EIR included several mitigation measures related to roadway improvements needed to reduce the impacts of project truck traffic at certain Port-area intersections. Three of those measures were not implemented by the dates specified in the measures. In addition, as described more fully in Section 3.3.2.2, conditions have changed since the certification of the 2008 EIS/EIR, which calls into question the need for and/or effectiveness of some of these mitigation measures.
41 42 43 44 45	MM TRANS-2 requires LAHD to provide an additional eastbound through lane on Anaheim Street at the intersection with Alameda Street by 2015. That project was never implemented and is not currently part of any planned or approved infrastructure project. A screening analysis conducted by LAHD (Appendix D of the Recirculated Draft SEIR) indicated that this location would no longer experience a traffic impact. Accordingly, the

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Revised Project as originally proposed would have eliminated MM TRANS-2. (MM TRANS-2 appears in the Mitigation Monitoring and Reporting Program in its original form except with a revised implementation schedule because it was re-imposed in this SEIR as mitigation for the Revised Project's traffic impacts).

- MM TRANS-3 requires that LAHD, by 2015, 1) provide additional southbound and westbound right-turn lanes on John S. Gibson Boulevard and I-110 NB ramps; 2) reconfigure the eastbound approach to one eastbound through-l eft-turn lane, and one eastbound through-right-turn lane; and 3) provide an additional westbound right-turn lane with westbound right-turn overlap phasing. The first two elements have been addressed by the John S. Gibson/I-110 Project, but the third one (westbound lane with westbound overlap phasing) was not part of the Gibson/I-110 Project and has not been completed. A 12 screening analysis conducted by LAHD (Appendix D of the Recirculated Draft SEIR) 13 indicated that this location would no longer experience a traffic impact. Accordingly, the 14 Revised Project as originally proposed would have eliminated MM TRANS-3. (MM TRANS-3 appears in the Mitigation Monitoring and Reporting Program in its original 16 form except with a revised implementation schedule because it was re-imposed in this SEIR as mitigation for a cumulative impact of the Revised Project).
- 18 MM TRANS-4 was intended to modify the intersection at Fries Avenue and Harry 19 Bridges Boulevard by providing an additional westbound through-lane on Harry Bridges 20 Boulevard and additional northbound, eastbound, and westbound right-turn lanes on Fries 21 Avenue and Harry Bridges Boulevard. The measure was supposed to have been 22 implemented by 2015, but has not been completed and is not part of any approved or 23 planned infrastructure project. A screening analysis conducted by LAHD (Appendix D 24 of the Recirculated Draft SEIR) indicated that this location would no longer experience a 25 traffic impact. Accordingly, MM TRANS-4 would not be implemented under the 26 **Revised Project.**
- 27 MM TRANS-6 required the LAHD to modify the Navy Way/Seaside Avenue 28 intersection on Terminal Island by providing an additional eastbound through-lane on 29 Seaside Avenue and reconfiguring the westbound approach to one left-turn lane and three 30 through-lanes. The measure has not been completed and is not part of any approved or 31 planned infrastructure project. However, a related transportation improvement project, 32 the Navy Way and Seaside Interchange Project, would construct a new flyover connector 33 from northbound Navy Way to westbound Seaside Avenue. The flyover improvement 34 would provide direct ramp connections for existing left-turn movements, thereby 35 eliminating conflicts between left-turn and through traffic. The improvement is 36 scheduled to be implemented before 2026. Accordingly, MM TRANS-6 would not be 37 implemented under the Revised Project.
- 38 **Revised Project Modification**
- 39 All four 2008 EIS/EIR mitigation measures related to transportation are not included in 40 the Revised Project.

Revised Project New Lease Measures and New 1.4.3.2 41 **Mitigation Measure** 42

- LM AQ-1: Cleanest Available Cargo Handling Equipment 43
- 44 Subject to zero and near-zero emissions feasibility assessments that shall be carried out by 45 LAHD, with input from Tenant as part of the CAAP process, Tenant shall replace cargo

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handling equipment with the cleanest available equipment anytime new or replacement equipment is purchased, with a first preference for zero-emission equipment, a second preference for near-zero equipment, and then for the cleanest available if zero or near-zero equipment is not feasible, provided that LAHD shall conduct engineering assessments to confirm that such equipment is capable of installation at the terminal.

Starting one year after the effective date of a new lease amendment between the Tenant and the LAHD, tenant shall submit to the Port an equipment inventory and 10-year procurement plan for new cargo-handling equipment, and infrastructure, and will update the procurement plan annually in order to assist with planning for transition of equipment to zero emissions in accordance with the forgoing paragraph.

- 11LAHD will include a summary of zero and near-zero emission equipment operating at the12terminal each year as part of mitigation measure tracking.
- 13This new lease measure would ensure a regular check-in process and evaluation of the14cleanest available technology in order to be consistent with, and address, 2017 CAAP goals15for near-zero and zero-emissions equipment.
- 16 LM AQ-2: Priority Access for Drayage
- A priority access system shall be implemented at the terminal to provide preferential access
 to zero- and near-zero-emission trucks.
- 19 Priority access would enable drivers with the cleanest trucks to get access to the terminal 20 more quickly, thus allowing them to make more daily moves - called "turns" - and earn 21 more revenue. Faster moves and higher earning potential could incentivize drivers and 22 trucking companies to accelerate the investment in zero- and near-zero-emission trucks and 23 to send these cleaner trucks to the CS Terminal because it would increase their business and 24 reduce their fuel and idling time costs. Preferential access could involve giving drivers of 25 clean trucks the first choice of coveted appointment/reservation slots, as envisioned in the 26 2017 CAAP, although other measures could be considered. An enhanced terminal 27 appointment system would allow appointment-making rules resulting in increased 28 efficiency and goods movement optimization measures. WBCT already operates an 29 appointment system for all imported cargo and, for some time periods, for export cargo. 30 The reduction in idling time and the increased use of clean trucks would reduce the overall 31 emissions from drayage at the CS Terminal. The emissions reductions from this measure 32 cannot be quantified at the time of publication of this SEIR.

33 LM AQ-3: Demonstration of Zero Emissions Equipment

Tenant shall conduct a one-year zero emission demonstration project with at least ten units of zero-emission cargo handling equipment. Upon completion, tenant shall submit a report to LAHD that evaluates the feasibility of permanent use of the tested equipment. Tenant shall continue to test the zero-emission equipment and provide feasibility assessments and progress reports in 2020 and 2025 to evaluate the status of zero-emission equipment technologies and infrastructure as well as operational and financial considerations, with a goal of 100% zero-emission cargo handling equipment by 2030.

41 MM GHG-1: LED Lighting

All lighting within the interior of buildings on the premises and outdoor high mast terminal
lighting will be replaced with LED lighting or a technology with similar energy-saving
capabilities within two years after the effective date of a new lease amendment between the
Tenant and the LAHD or by no later than 2023.

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LM GHG-1: GHG Credit Fund

2 3 4 5	LAHD shall establish a Greenhouse Gas Fund, which LAHD shall have the option to accomplish through a Memorandum of Understanding (MOU) with the California Air Resources Board (CARB) or another appropriate entity. The fund shall be used for GHG-reducing projects and programs approved by the Port of Los Angeles, or through the
6	purchase of emission reduction credits from a CARB approved offset registry. It shall be
7	the responsibility of the Tenant to make contributions to the fund in the amount of
8	\$250,000 per year, for a total of eight years, for the funding of GHG reducing projects or
9	the purchase of GHG emission reduction credits, commencing after the date that the
10	SEIR is conclusively determined to be valid, either by operation of Public Resources
11	Code Section 21167.2 or by final judgment or final adjudication ("Conclusive
12	Determination of Validity Date"), as described below. The fund contribution amount is
13	established as follows: (i) the peak year of GHG operational emissions (2030), after
14	application of mitigation, that exceed the established threshold for the Revised Project,
15	estimated in the SEIR to be 129,336 metric tons CO2e, multiplied by (ii) the current
16	(2019) market value of carbon credits established by CARB at \$15.62 per metric ton
17	CO2e. The payment for the first year shall be due within ninety (90) days of the
18	Conclusive Determination of Validity Date, and the payment for each successive year
19	shall be due on the anniversary of the Conclusive Determination of Validity Date. If
20	LAHD is unable to establish the fund through an MOU with CARB within one year prior
21	to when any year's payment is due, the Tenant shall instead apply that year's payment,
22	using the same methodology described in parts (i) and (ii) above, to purchase emission
23	reduction credits from a CARB approved GHG offset registry.

1.5 Changes to the Recirculated Draft EIR

- The Final SEIR discusses changes and modifications that have been made to the Recirculated Draft SEIR. Actual changes to the text, organized by chapters, sections, and appendices, are presented in Chapter 3, "Modifications to the Recirculated Draft EIR," of this Final SEIR.
- Changes noted in Chapter 3 are identified by text strikeout and underline. These changes are referenced in Chapter 2, "Response to Comments," of this Final SEIR, where applicable. The changes and clarifications presented in Chapter 3 were reviewed to determine whether or not they warranted recirculation of the EIR prior to certification according to CEQA Guidelines and Statutes. The changes would not result in any new significant environmental impacts or a substantial increase in the severity of an existing environmental effect.
- Below is a brief summary of key changes made, which are described in more detail inChapter 3 of this Final SEIR.
 - Mitigation measure MM AQ-10 was revised in response to a comment to eliminate the option for an alternative compliance plan for the Vessel Speed Reduction Program.
 - Lease Measure LM GHG-1 was revised in response to comments to alter the formula by which the funding amount is calculated, to increase the funding amount, and to revise the implementation mechanism and schedule.
 - The air quality analysis (Section 3.1) was supplemented to provide additional information regarding potential health effects of project-related criteria pollutant emissions on local and regional populations.

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- The analysis of future emissions from ocean-going vessels was revised in response to comments pointing out discrepancies in the treatment of hoteling emissions. The re-analysis did not change the impact determinations.
- Minor text changes were made to correct inconsistencies and typographical errors in the document.

The above changes are consistent with the findings contained in the Recirculated Draft SEIR, as modified. There would be no new or increased significant effects on the environment due to the changes in the Revised Project. Therefore, recirculation is not required consistent with Public Resources Code Section 21092.1 and CEQA Guidelines Section 15088.5.

11 **1.6 References for Chapter 1**

- 12 CARB, 2007a. Regulations to Reduce Emissions from Diesel Auxiliary Engines on
 13 Ocean-Going Vessels while At-Berth at a California Port; Technical Support Document.
 14 www.arb.ca.gov/regact/2007/shorepwr07/tsd.pdf.
- 15 CARB, 2007b. Final Statement of Reasons for Rulemaking. Public Hearing to Consider
 16 the Adoption of Proposed Regulations to Reduce Emissions from Diesel Auxiliary
 17 Engines on Ocean-Going Vessels While At-Berth at a California Port.
 18 http://www.arb.ca.gov/regact/2007/shorepwr07/fsor2007.pdf.
- LAHD, 1997. West Basin Transportation Improvements Program EIR. Prepared by the
 Environmental Management Division with Assistance from Science Applications
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- LAHD, 2016. Cost Scenarios for Expenditure on Cargo-Handling Equipment. Internal
 LAHD data. July, 2016
- LAHD, 2017. Assessment of the Feasibility of Requiring Alternative-Technology
 Drayage Trucks at Individual Container Terminals. Final Report. Prepared by Ramboll
 Environ. April, 2017.
- 27 LAHD and USACE, 2008. Final EIS/EIR for the Port of Los Angeles Berths 97-109
 28 China Shipping Container Terminal Project.
- 29 <u>https://www.portoflosangeles.org/EIR/ChinaShipping/FEIR/feir_china_shipping.asp</u>