## Chapter 1 Introduction

## **3 CHAPTER SUMMARY**

4 The proposed Project involves improvement of the existing Everport Container Terminal at Berths 226–

5 236 on Terminal Island within the Port of Los Angeles (Port). This chapter provides an overview of the

6 Port as a whole, including an overview of the goods movement chain. Refer to Chapter 2, Project

7 Description, for a detailed description of the proposed Project and alternatives to be analyzed.

- 8 This chapter presents the following:
- 9 a brief summary of the key proposed Project features and elements;
- 10 an overview of the goods movement chain;
- 11 a general description of container terminal operations; and
- a summary of growth projection planning for container throughput in the San Pedro Bay Port
   Complex (i.e., the Ports of Los Angeles and Long Beach [POLA/POLB], also referred to as the
   Port Complex).

15 This chapter also provides an overview of the National Environmental Policy Act (NEPA) and California

16 Environmental Quality Act (CEQA) processes, which, respectively, require the preparation of an

17 Environmental Impact Statement (EIS) or Environmental Impact Report (EIR) for projects that could

18 significantly affect the environment. In addition, the chapter contains the following information:

- 19 a summary of the scope and content of this EIS/EIR;
- a description of how the United States (U.S.) Army Corps of Engineers (USACE) and the
   Los Angeles Harbor Department (LAHD) would use the EIS/EIR;
- a summary of the key principles that were used to guide the preparation of this EIS/EIR;
- a description of environmental initiatives currently under way to improve the Port setting; and
- a summary of public comments and concerns raised during the scoping process.
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## 1 1.1 Introduction

The proposed Project includes improvements to and expansion of the existing Everport Container Terminal currently in operation at Berths 226-236 on Terminal Island in the Port of Los Angeles to accommodate the berthing, loading and unloading of larger vessels, increased throughput, and an increased number of vessels anticipated to call at the Everport Container Terminal in the future.

- The proposed Project would require a permit from USACE and approval from the Los
  Angeles Board of Harbor Commissioners (Harbor Commission). Prior to issuance of
  permits or other project approvals, each of these decision-making bodies must consider
  the proposed Project's environmental effects, which, in this case, are identified in an EIS
  prepared by USACE and an EIR prepared by LAHD. For the proposed Project, a joint
  EIS/EIR has been prepared to streamline the lead agency's environmental compliance
  requirements and decision-making processes.
- 14 This Draft EIS/EIR has been prepared in accordance with the requirements of NEPA 15 (U.S. Code [USC], Title 42, Section 4341 et seq.) and in conformance with the Council for Environmental Quality (CEQ) Guidelines and the USACE NEPA Implementing 16 17 Regulations (Code of Federal Regulations [CFR], Title 33, Parts 230 and 325). The 18 document also fulfills the requirements of CEQA (Public Resources Code [PRC] Section 19 21000 et seq.) and the State CEOA Guidelines (California Code of Regulations [CCR], 20 Title 14, Section 15000 et seq.). USACE is the NEPA lead agency for this proposed 21 Project, and LAHD is the CEQA lead agency.
- 22 The proposed Project and its alternatives are described in detail in Chapter 2, Project 23 Description. The CEQA term 'proposed Project' is used throughout this document rather 24 than the NEPA term 'proposed Action' because 'proposed Project' encompasses the 25 broadest set of proposed Project components. The CEQA term 'proposed Project' 26 includes all proposed Project elements described in Section 2.6 in Chapter 2 of this 27 document, whereas the NEPA term 'proposed Action' (or 'Federal Action') includes only 28 those elements that require federal approval, as described in Section 2.8 of Chapter 2, 29 Project Description, of this Draft EIS/EIR. Therefore, for a more efficient presentation of 30 the elements being proposed, the proposed Project/Action is hereafter referred to as the 31 'proposed Project.'
- Chapter 3, Environmental Analysis, of this Draft EIS/EIR describes the affected environmental resources and evaluates the potential impacts on those resources that are likely to occur as a result of building and operating the proposed Project and alternatives. This Draft EIS/EIR will be used to inform decision makers and the public about the environmental effects of the proposed waterside, terminal, and transportation improvements to Berths 226–236, which constitute the proposed Project.

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## 1 1.2 Background

## 2 1.2.1 **Project Location and Brief Project Overview**

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 30700 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. It functions as a landlord by leasing Port properties to more than 300 tenants.

- 13The Project site is located at 389 Terminal Way on Terminal Island in the Port of Los14Angeles. The existing 205-acre container terminal at the Project site (Berths 226-236) is15operated by Everport Terminal Services Inc. (ETS), a wholly owned subsidiary of16Evergreen Marine Corporation. ETS is also the permit/lease<sup>1</sup> holder.
- 17 The site is generally bounded on the west and northwest by the Main Channel; to the 18 north by State Route 47 and the Yusen Terminals, Inc. (YTI) Container Terminal at 19 Berths 212224; to the east by Los Angeles Export Terminal (LAXT) and ExxonMobil SA 20 Inland Tanks facility; and to the south by the PBF Energy (formerly ExxonMobil) liquid 21 bulk terminal at Berths 238-240, Cannery Street, TriMarine Seafood and both vacant and 22 developed land south of Cannery Street. Land uses in the vicinity of the Project site 23 support a variety of cargo handling operations (including container, liquid bulk, dry bulk) 24 commercial fishing, seafood processing, maritime support, and ship repair.
- 25The existing terminal under the current lease agreement totals approximately 180 acres,26which includes approximately 20.5 acres associated with the existing on-dock railyard27behind the YTI Container Terminal (behind Berths 217-220), known as the Terminal28Island Container Transfer Facility (TICTF). In addition, ETS has an existing space29assignment for 25 acres of backland area behind Berths 232-236.

30 A 1.5-acre parcel and a 22-acre parcel that are currently not under lease to ETS are also 31 being proposed for development and inclusion in the lease footprint (see Figure 2-4 in 32 Chapter 2, Project Description). The 1.5-acre parcel (located adjacent to the 25-acre 33 space assignment and PBF Energy [formerly ExxonMobil] tank storage yard) that is 34 being proposed for development as backlands is vacant and adjacent to the existing 35 terminal, but separated by a chain-link fence. The 22-acre area proposed for 36 development as backlands and the relocation of the main gate (located immediately south 37 of the existing terminal boundary) is currently developed with various structures (including, but not limited to, buildings associated with the former StarKist Tuna Plant, 38 39 the former Canner's Steam Company Plant, and an electrical substation), vacant parcels, 40 and portions of Terminal Way, Barracuda Street, Tuna Street, and Ways Street.

<sup>&</sup>lt;sup>1</sup> Although the lease agreement document is Permit No. 888, because there are various permits described in this Draft EIS/EIR, Permit No. 888 is hereafter referred to as 'the lease.'

1 2 3 4 5	Construction of the proposed Project would take approximately 24 months to complete, with construction expected to begin 2018. Construction would be performed in a manner that maintains terminal operations. The proposed Project also includes a lease amendment to extend operations of the proposed Project by an additional 10 years to 2038.
6	The improvements that would occur at the terminal include the following:
7	<ul> <li>Installation of sheet piles and king piles at Berths 226–229 and 230–232 followed</li></ul>
8	by dredging;
9	<ul> <li>Installation of spacers between the wharf and existing wharf fenders to provide</li></ul>
10	better clearance between the berthed vessels and the new king and sheet piles;
11	<ul> <li>Disposal of the dredged materials (approximately 38,000 cubic yards) at an</li></ul>
12	approved ocean disposal site (LA-2) or at an approved upland facility, or a
13	combination of these options;
14	<ul> <li>Raising of up to five existing cranes and addition of five new 100-foot gauge A-</li></ul>
15	frame over-water gantry (wharf) cranes;
16	<ul> <li>Addition of five Alternative Marine Power (AMP) vaults;</li> </ul>
17	<ul> <li>Development of approximately 1.5 acres as new backlands;</li> </ul>
18	<ul> <li>Development of approximately 22 acres as new backlands and modified inbound</li></ul>
19	and outbound gates associated with the relocation of the main gate;
20	<ul> <li>Closure of portions of Terminal Way, Barracuda Street, Tuna Street, and Ways</li></ul>
21	Street within the Project site and rerouting of Terminal Way traffic to Cannery
22	Street;
23	<ul> <li>Improvements to Cannery Street, including: street realignment, pavement</li></ul>
24	improvements, street widening, striping, traffic lighting and signals, drainage,
25	and sidewalk improvements;
26 27	<ul> <li>Infrastructure to support 23.5 acres (1.5 + 22 acres) of new backlands (such as lighting, paving, and drainage improvements);</li> </ul>
28	<ul> <li>Amendment of the lease to add approximately 48.5 acres of terminal backlands</li></ul>
29	(comprised of approximately 25 acres of existing terminal backlands currently
30	under space assignment, and the 23.5 acres of new backland area); and,
31	<ul> <li>Extension of the facility lease by 10 years for continued operations to 2038.</li> </ul>
32 33 34 35	After completion of the proposed Project, capacity <sup>2</sup> at the Everport Container Terminal is projected to increase from a maximum of 1,818,000 twenty-foot equivalent units <sup>3</sup> (TEUs) (the capacity of the existing terminal) to 2,379,525 TEUs by 2038. For purposes of the CEQA impacts analysis, the 2013 baseline of 1,240,773 TEU's is utilized.

<sup>&</sup>lt;sup>2</sup> Terminal capacity refers to the theoretical maximum amount of throughput that can move through the terminal given the physical upgrades and all known operational changes.

<sup>&</sup>lt;sup>3</sup> A TEU is a measure of container cargo capacity based on the volume of a 20-foot-long by 8-foot-wide by 8 ½-foot tall container. When the measure was first developed, shipping containers were generally 20 feet long or 1 TEU. Currently, most containers are 40 feet long or 2 TEUs. See page 1-5 for more information.

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## 1 1.2.2 Goods Movement Overview

The proposed Project is part of a goods movement chain, a complex international system that moves goods from their points of production to consumers by different modes of transportation (ship, rail, and truck). With respect to the Ports of Los Angeles and Long Beach (Ports [also referred to as the San Pedro Bay Port Complex or Port Complex]), the points of production are generally located in foreign countries, while the consumers are in the U.S.<sup>4</sup> The goods movement chain is a coordinated process that includes shippers, shipping lines, third-party logistics providers, stevedoring companies,<sup>5</sup> port cargo terminal operators, labor, truckers, railroads, and distribution centers. Manufacturers, retailers, or third-party logistics firms often contract with shipping lines to move goods from origin to destination. Shipping lines own and lease container equipment and typically enter into agreements with trucking companies and railroads for the transport of international cargo between the manufacturers and retailers and the marine terminals. The ability to move the same container between ships, trucks, and rail is called intermodal transport,<sup>6</sup> which is accomplished through the use of standardized containers that can be easily moved between modes. Figure 1-1 illustrates the flow of containers through the various stages of the goods movement chain.

- 18 Section 1.2.2.1 describes how a container terminal operates. The sections that follow
  19 describe key links in the chain of goods movements and include discussions of container
  20 ships, truck transport, and rail transport.
- The majority of the goods coming into the Ports arrive in shipping containers that have
   been transported on container ships. The existing Everport Container Terminal
   accommodates vessels that transport these shipping containers. It does not handle vessels
   that transport non-containerized materials, such as automobiles or bulk cargo.
- 25Container ships arrive at and depart from the Ports via designated shipping lanes26(northern or southern approaches), typically with the assistance of a tugboat within the27Harbor. Container ships are generally 700 feet to more than 1,000 feet long but are28described by the number of TEUs they can carry (from a few thousand to more than2918,000 TEUs).

<sup>&</sup>lt;sup>4</sup> In 2012, Los Angeles handled two-way trade totaling \$403.96 billion and was a major gateway for imports, with inbound shipments accounting for \$282.6 billion (70 percent of the value of the freight it handled in 2012) (World City, 2013).

<sup>&</sup>lt;sup>5</sup> The entity that unloads and loads a ship. At the Port of Los Angeles, the terminal operator usually operates the stevedoring operations along with the terminal operation.

<sup>&</sup>lt;sup>6</sup> Intermodal transport is a change in mode of transport (e.g., from ship to truck to rail).

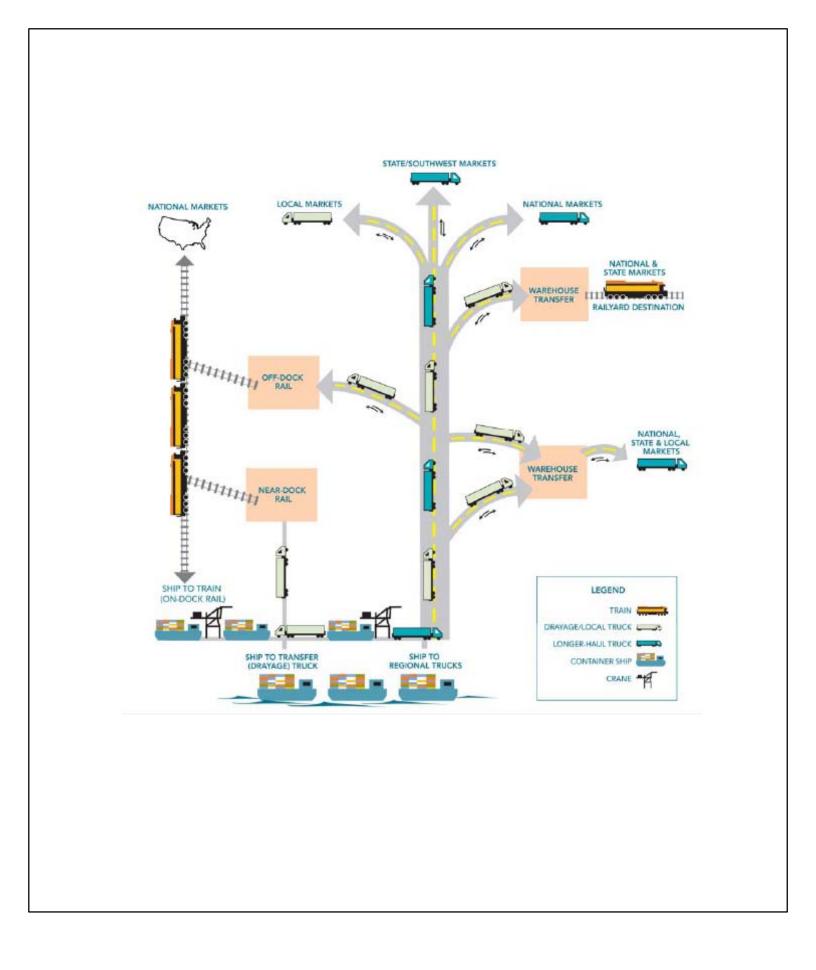




Figure 1-1 Goods Movement Chain: Transportation Distribution

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A TEU is a measure of containerized cargo capacity equal to one standard 20-foot-long by 8-foot-wide by approximately 8.5-foot tall shipping container. Presently, most maritime containers are 40 feet long, or two TEUs. To account for the ratio between 20and 40-foot boxes (and to account for the small number of boxes that are between 45 and 48 feet long), a factor is generally applied to convert TEUs to the actual number of containers. Currently, Port of Los Angeles-wide, this factor is approximately 1.80, meaning one container equals 1.80 TEUs. For example, a ship that holds 2,778 containers would be carrying 5,000 TEUs after application of the conversion factor (or 2,778 x 1.80). Containers are also counted in "lifts" (as in a container being lifted onto or off a train or vessel by an A-frame crane). A lift is the unit of an individual container of any size. The Port-wide conversion from lift to TEU is also based on the 1.80 conversion factor.

13For this Draft EIS/EIR, the 1.80 conversion factor has been used to model baseline14conditions and future scenarios. As detailed in Section 1.2.2.1, container ships are15moored at the terminal, and the container terminal operator is responsible for hiring labor16to unload the ships, storing containers for a brief period of time in an area known as the17backlands, and coordinating with trucking and rail operators to deliver containers to their18final destinations.

#### 19**1.2.2.1Trend Towards Larger Vessels**

- 20 Larger vessels are being deployed to reduce container shipping costs. Larger vessels 21 transport more containers resulting in lower average fuel consumption per container, and 22 therefore offering greater economies of scale to shipping lines. Furthermore, the 23 expansion of the Panama Canal, which would double its capacity, has recently been 24 completed and can accommodate the larger 13,000/14,000 TEU vessels. New container vessel deliveries worldwide have increased from 6,600 TEU vessels in 1997 to 15,500 25 26 TEU vessels in 2007 (MAN Diesel, 2009). As of 2013, Maersk has deployed 18,000 TEU vessels, and other shipping lines are in the process of deploying even larger vessels. 27 28 The San Pedro Bay Ports already receive 14,000 TEU vessels and should expect regular 29 calls of 18,000 TEU vessels in the next several years.
- 30 Because many terminal berths and cranes within the Port and across the country were not 31 designed to handle these larger vessels that are projected to enter the fleet mix over time, 32 modifications to these facilities and equipment are necessary to allow for the efficient 33 servicing of these vessels. Taller cranes are required to lift from increased stack heights, 34 while a longer reach is required to reach across the additional rows of containers, 35 associated with the larger vessels. In some cases, structural improvements to wharves may be required to support the larger and heavier cranes and/or vessels. Channel and 36 37 berth deepening may be required to accommodate increases in vessel draft. The Port of 38 Los Angeles and USACE Channel Deepening project was completed in 2013 and 39 involved deepening of the Port's 45-foot deep Main Channel, West Basin Channel and 40 East Basin Channel to a 53-foot depth and is intended to allow for the navigation of these larger vessels in future years (USACE and LAHD, 2009). Container terminal-specific 41 improvements may be required, including berth deepening, larger cranes, wharf 42 43 improvements, expansion of backlands, and rail improvements to accommodate the larger vessels and associated cargo. 44

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#### 1 1.2.2.2 Peel Off Yards

As a result of container terminal congestion and the currently trend of larger vessels delivering a higher volume of containers in a single call, the San Pedro Bay Ports began implementing "peel off" yards in early 2015.

- 5A container's movements are generally determined by freight forwarders on behalf of the6cargo owners (importers). In addition to arranging the overseas transport of cargo, the7freight forwarders make arrangements for a trucking company or train operator to move8the inbound containers out of the San Pedro Bay Ports. This process requires the9temporary storage of cargo in the backlands and subsequently the sorting of containers10once they are ready to be transported by truck or train. (POLB, Cargo Movement In11Focus, 2008)
- 12 "Peel off" yards offer a less constrained system of moving containers from marine 13 container terminals to inland warehouses and distribution centers. "Peel off" operations 14 involve importing containers belonging to high-volume importers (e.g., "big-box" 15 retailers). The associated containers are stacked together in a single block upon arriving 16 at a marine container terminal. These containers are then picked up by truckers 17 associated with a "peel off" yard. These trucks are expedited through a terminal's gate 18 complex so that the container can be delivered quickly to the near-dock "peel off" yard. 19 The same trucker can then deliver a different container from the peel-off yard to 20 warehouses and distribution centers off-site.
- (http://www.portoflosangeles.org/newsroom/2015\_releases/news\_030915\_peel\_off\_prog
   ram.asp) This process eliminates the sorting through rows and stacks of cargo to access a
   specific container to be transported by a specific trucking company. In turn, there is a
   higher rate of container throughput.
- 25The container handling capacity of the peel off yards was estimated using a model which26is normally utilized for determining container yard capacities. For peel-off yards, the27model was adjusted to reflect an all-wheeled container storage operation. With this28assumption, the peel-off yards are expected to add an additional 2.034 million TEUs29worth of container handling capacity Port-wide on an annual basis.

### 30 **1.2.2.3 Container Terminal Overview**

31 A modern marine container terminal is a facility that integrates several different physical 32 components and operational processes to load and unload oceangoing container ships and 33 move cargo through the terminal to and from trucks and trains in as cost-effective manner 34 as possible. The physical components of a container terminal consist of container ships, 35 berths/wharves (docks), cranes, backland storage areas (container vard), entrance and exit gates, and maintenance and administrative buildings. The operational processes for the 36 37 terminal include shipping, stevedoring (loading/unloading ships), container storage and 38 management, in-terminal drayage (hauling), trucking to off-site locations such as 39 warehouses and off-dock railyards, and on-dock rail operations (see Figure 1-2). The 40 Everport Container Terminal operations currently use four rail loading tracks within the 41 TICTF on-dock rail yard (the on-dock rail yard has a total of eight rail loading tracks, 42 four of which are used by the YTI Container Terminal located to the north of the Project 43 area).

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At the Port, LAHD develops and owns major terminal container infrastructure (wharves, container storage yard, and buildings) and leases terminals to terminal operators and/or shipping companies for operation. A container terminal is operated by a terminal operator, which is often a company that is separate from, yet affiliated with, the shipping line. Because many terminal operators are affiliated with shipping lines, these lines often serve as the terminal's primary customers. In the case of the Everport Container Terminal, ETS is both the operator and lease holder. It is assumed that Everport would be the primary shipping line that would be served by the proposed Project.

- 9 Terminal operators may also contract with other shipping lines to fill extra berth space. 10 These "third-party invitee" shipping lines traditionally look for longer term terminal and 11 stevedoring agreements to secure their positions in the market place for at least five 12 years; however, invite shipping lines might make agreements with the terminal operator 13 for as little as six months because terminal operators are not always able to offer longer 14 term agreements based on requirements to serve the parent company's core businesses.
- 15 In addition, shipping lines sometimes affiliated with specific container terminals or 16 terminal operators, own and operate the vessels that service the terminal. In order to 17 ensure consistent or regular delivery of goods, shipping lines organize their vessel calls in 18 strings, consisting of one vessel call per week over a year (52 weeks) for Port terminals; 19 thus, one string would be comprised of 52 vessel calls. Sometimes, shipping lines operate 20 half-strings, or 26 annual calls. In addition to the vessel strings, third party invitees may call at the terminal. The total annual vessel calls for a given container terminal is thus 21 22 typically a multiple of either a full string or half string of vessel calls, plus any third-party 23 invitee ships. In the case of the Everport Container Terminal, future annual vessel calls 24 would be 208, which is equivalent to four strings.
- 25Whereas the vessel calls are structured to offer regular and consistent delivery times, the26vessel sizes can vary to accommodate varying throughput levels. Thus, two container27terminals with different throughput may have the same annual vessel calls, but a different28mix of vessel sizes. In such instances, the container terminal with lower throughput29levels could utilize smaller vessels than the terminal with a higher level of throughput.
- 30Under the anticipated proposed Project, ETS would own and operate all terminal31equipment (such as yard tractors, toppicks, and sidepicks). This includes the wharf32gantry cranes (an example is shown on Figure 1-2), which directly affect terminal33productivity and require regular maintenance.
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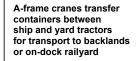


Wharf

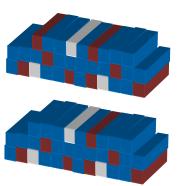
Container

Ship





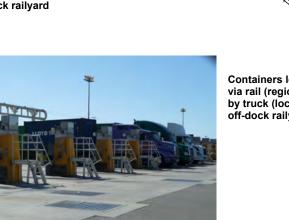
Stacked containers stored in backlands







Containers loaded/unloaded to train cars at on-dock railyard



Containers leave the facilty via rail (regional) or by truck (local or delivery to off-dock railyard or warehouse)

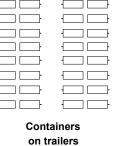




Figure 1-2 General Container Terminal Operations



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The terminal operator orders longshore labor through the Pacific Maritime Association (PMA), the employer. The PMA contracts with the International Longshore and Warehouse Union (ILWU) and negotiates, on a periodic basis, with the ILWU to determine labor rates, working conditions, safety measures, and various operational protocols. Although the terminal operator is largely responsible for terminal operations, different parts of the terminal operation are handled by other entities. For example, shipping lines own and lease container equipment, manage contracts with tug companies, and manage railroad agreements for international cargo. Shipping lines, often with the involvement of manufacturers, retailers, and others, also may arrange contracts with trucking companies to move loaded containers to and from the Port Complex. Railroad agreements for international cargo are also usually handled by the shipping lines; however, the rail companies often subcontract switching activities to another provider. Pacific Harbor Line (PHL) is the rail switching company that is responsible for building the trains that the mainline rail companies will transport outside the Port Complex.

#### 15 **1.2.2.4 Terminal Operations**

16Operationally, imported containers arrive at, and exported containers depart from, the17Port via container ships, typically with the assistance of one or two tugboats. For the18Everport Container Terminal, two tugboats per vessel are generally required. When the19vessel arrives, most of the export cargo to be loaded is already stacked in the yard.20Gangs (groups) of longshore workers, contracted by ETS, work to unload and load the21ship using A-frame cranes, as shown on Figure 1-2.

- Dockside crane operators lift cargo containers to and from the ships on and off specialized trailers pulled by yard tractors. Typically, cranes can transfer 25 to 40 containers per hour. The cranes have specialized equipment, including anti-sway devices, lighting, and adjustable "spreaders" (cargo hooks) that allow attachment to the various container sizes. The number of cranes operating simultaneously on one ship can vary from three to seven, depending on the size of the ship, the number of vessels at berth, the crane gauge (distance between crane legs), and the availability of cranes.
- 29 The ships typically "hotel" or remain docked at the terminal for approximately 36 hours, 30 or 1.5 days, but the largest ships might stay as long as three days. Traditionally, the main propulsion engine of the ship is shut down, but one or more of the large diesel auxiliary 31 32 engines runs continuously to provide electrical power for ship functions, including power 33 for refrigerated containers while at berth. A boiler that heats the fuel for the ship also 34 runs while at berth to ensure a constant viscosity. However, the Everport Container 35 Terminal has AMP supply vaults installed at the existing wharf, and as part of the proposed Project, would install additional AMP vaults along the wharf. AMP allows a 36 37 ship to plug in and use shore-supplied electricity for its power needs in lieu of running the 38 auxiliary diesel engines. This alternative power source allows a fleet to reduce its air 39 emissions by substantial amounts, even when taking into account the emissions 40 associated with electricity generation. In 2014, the California Air Resources Board 41 (CARB) began mandating that a certain percentage of calling ships use AMP and abide by certain operational constraints. Details regarding these regulations are provided in 42 43 Table 2-6 in Chapter 2, Project Description, and Section 1.6.8.1, Clean Air Action Plan, 44 of this chapter as well as in Appendix B1 of this Draft EIS/EIR.
- 45 Once containers have been off-loaded from the ship or received through the gates on 46 trucks and trains, the containers are stored and moved around the storage yards using

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4 5 cargo-handling equipment, which may include electric- or diesel-powered rubber-tire gantry cranes (RTGs), and/or diesel-powered sidepicks, toppicks, and yard tractors. The Everport Container Terminal does not use rail-mounted gantry cranes (RMGs) in its operations. In future years, stricter standards will apply to emissions generated by these equipment types.

- 6 Containers are stored on the container yard (backlands) of the terminal using either a 7 grounded or "stacked" system (where containers are stacked on top of each other, up to 8 five containers high, with the bottom container placed directly on the ground) or a chassis 9 (trailer) or "wheeled" system (where the containers are stored directly on one chassis [or 10 trailer], not stacked). Terminals commonly use a combination of the two storage 11 methods. The Everport Container Terminal uses both the grounded system and chassis 12 storage.
- 13As shown on Figure 1-2, import cargo is shifted to stacks or wheeled trailer locations in14the backlands. Some import containers are shifted to stacks near the on-dock railyard to15be loaded onto departing trains. Others are delivered to trucks that arrive to pick up the16cargo. As shown on Figure 1-2, cargo containers loaded on trucks are then processed out17of the terminal at the exit gate.
- 18 Imported containers that leave the terminal by truck are hauled to off-Port railyards such 19 as Union Pacific's (UP) Intermodal Container Transfer Facility (ICTF) or Burlington 20 Northern-Santa Fe's (BNSF) Hobart Yard. Import containers are also transported to 21 transloading<sup>7</sup> warehouses or directly to final destinations, such as a retailer or distribution 22 warehouse. At the Everport Container Terminal, imported containers can also be moved 23 through the TICTF (on-dock railvard). On-dock railvards are dedicated to a specific 24 terminal operator and are typically located in the backland area of Port container 25 terminals to enhance the efficient utilization of land and avoid dockside disruption to 26 vessel operations. An on-dock railyard consists of loading rail tracks that are 27 complemented by nearby storage rail tracks to maximize operating efficiency and 28 throughput capacity. They are designed to accommodate various types of container 29 lifting equipment, including rubber-tire gantry cranes, rail-mounted gantry cranes, reach 30 stackers, and toppicks, depending on terminal operator preferences.
- Containers destined for export arrive at the gate by truck typically from a day to a week prior to the scheduled departure of the ship on which the containers are booked to travel. The waiting containers are stored in the terminal prior to being loaded onto the ship. Export containers from distant locations generally arrive at the terminal via rail and are stored, parked as wheeled cargo, or grounded by toppicks or RTG cranes. Intermodal movement, including factors governing the distribution patterns and mode choices, is discussed in greater detail in Section 1.2.2.5, Port Intermodal Cargo Transport.
- 38The number of containers that pass through a terminal is called its throughput. It is a39dynamic number that is often measured in annual terms to avoid distortions caused by40seasonal fluctuations (i.e., more goods are moved at certain times of the year, such as the41Christmas holidays and back-to-school shopping periods). Each container terminal has42an annual "throughput capacity" (i.e., the anticipated high end of the realistic operating

<sup>&</sup>lt;sup>7</sup> Transloading is the process of transferring a shipment from one mode of transportation to another. It is most commonly employed when one mode cannot be used for the entire trip. Because of the different capacities of the different modes, the facilities typically require some storage facility, such a warehouse.

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range of containers the terminal can handle in a year). As described in Section 1.2.3, San Pedro Bay Ports Cargo Growth and Port Capacity, the throughput capacity of a terminal is based on site-specific physical and operational parameters. That number is a function of terminal configuration, berth length, berth depths, backland area, the ratio of berth length to backland area, and the number and types of equipment in use. To achieve the optimal throughput capacity of the terminals, the various components must not constrain the movement of cargo through the terminals. Optimal throughput capacity is independent of external influences such as economic cycles or disruptions in local, regional, or national transportation systems.

10 Historically, not all terminals at the Port were designed to optimize throughput capacity 11 but were built instead to conform to the physical space available at the time. 12 Accordingly, most terminal capacities are limited by one or more of their components, 13 such as the amount of berth space available to accommodate the newest/largest ships in 14 the fleet, the berth depths, the number and size of cranes used to load and unload the ships, the amount and shape of backland adjacent to the berth, the adequacy gate facilities 15 16 for trucks, or access to on-dock railyards. As a simplified example, a terminal of 500 17 acres and only one berth would be constrained by the number of ships it could berth 18 (berth constrained), while a terminal with five long berths but only 50 acres of backland 19 would be constrained by the amount of cargo that could be handled by the backlands 20 (backland constrained). Because shipping contracts with manufacturers and retailers are 21 dynamic and third-party accounts that use berth space can increase the throughput rates, 22 terminal planning is based more on optimal capacity rates and long-term supply-and-23 demand forecasts rather than individual shipping company business plans.

#### 24 **1.2.2.5** Port Intermodal Cargo Transport

- 25The Ports serve as a major gateway to international trade because of their location near26the Pacific Ocean. The Rail Study Update (Parsons Transportation Group, 2006)27estimated that 40 percent of all containerized freight flowing through the nation arrives or28departs through the San Pedro Bay Ports. The Ports are a link in the goods movement29chain, providing products for the local market in Southern California as well as markets30throughout the nation.
- 31The goods movement chain of concern to the proposed Project involves intermodal32transport as well as the transportation of freight in containers with use of multiple modes33of transportation, such as ship, rail, and truck (Figure 1-2). This is accomplished through34the use of containers that can be easily moved between the different modes of transport.
- 35 The majority of goods coming into the Ports arrive in shipping containers transported on 36 container ships. Once the containers have been off-loaded from ships onto a marine 37 terminal, they are sorted by destination and transported out of the terminal by truck or 38 train. Containers may be placed on trains inside the terminal (on-dock rail), loaded onto 39 truck chassis (a trailer designed to hold containers) to be hauled to their final destination, 40 or loaded onto truck chassis to be drayed<sup>8</sup> to a railyard outside the terminal (near-dock or 41 off-dock rail). In some cases, cargo transported by truck from the marine terminals is 42 handled or repackaged through a warehouse or distribution center somewhere in the

<sup>&</sup>lt;sup>8</sup> Drayage: haul on a dray, which formerly referred to a strong cart or wagon without sides. Currently, drayage means the transportation of containerized cargo by specialized trucking companies between railyards, marine terminals, and local warehouses.

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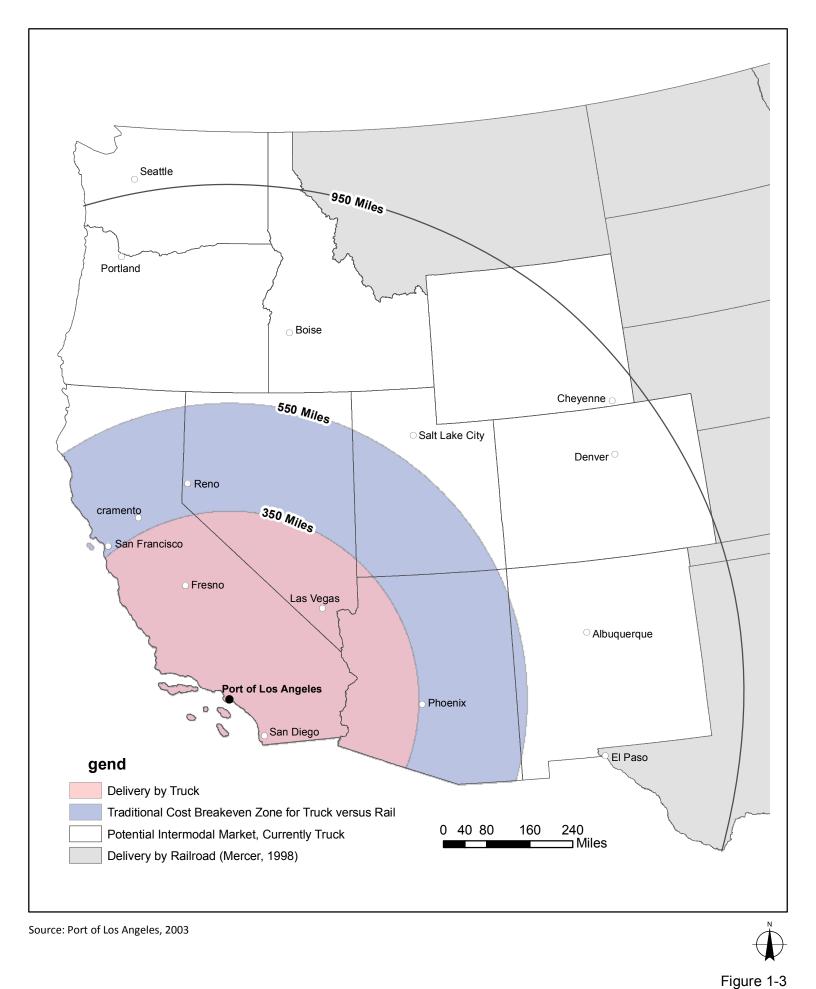
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Greater Los Angeles region. This is known as transloading. For containers that are exported, the process is reversed; the containers are transported to the marine terminal via truck or train and then loaded onto ships.

- Rail transport of intermodal cargo in and out of the region occurs on a system of rail main lines and supporting railyards. These include the Alameda Corridor, between the port area and major railyards near downtown Los Angeles (see Section 1.2.2.8); several railyards in the area between downtown Los Angeles and San Bernardino; and several main lines heading east and southeast from the various yards. As domestic and international commerce have increased, traffic on the rail system has increased to the point that the capacity of the system to accommodate more trains is a consideration in future planning efforts. The system's capacity to accommodate additional trains is driven by mainline capacity rather than the number of railyards. The system of mainline tracks in Southern California is designed and built to accommodate the anticipated rail activity in the region, both now and in the future. There is a limit to the number of trains each line can handle (i.e., its capacity). Once that capacity is approached, expansion projects would be undertaken by the railroad companies, as the owners and operators of the rail lines, with environmental review as appropriate (individual shippers and carriers would not undertake rail line expansion projects).
- 19 Intermodal container movement can be divided into three categories: (1) local transport 20 by truck; (2) transloaded intermodal cargo; and (3) direct intermodal. On the West Coast, cargo with origins and destinations fewer than about 350 miles from the marine terminal 21 22 is typically transported by truck (Figure 1-3), whereas cargo arriving from or departing to 23 locations more than 550 miles away is typically transported by trains. This pattern is 24 attributable to the fact that the economic breakeven boundary between truck transport and 25 rail transport is between 350 and 550 miles. Cargo bound for destinations more than 26 950 miles from the marine terminal is moved out of Southern California almost 27 exclusively by rail because of the tremendous cost savings of rail over truck. For large 28 quantities of containerized cargo bound for destinations far inland of the seacoast or on 29 the other side of the country, trains are generally the most cost-effective and the most 30 environmentally beneficial way of getting that cargo to those destinations.

#### 31 **1.2.2.6 Local Transport by Truck**

- Local transport of containers that arrive at the San Pedro Bay Ports are moved
  exclusively by truck. This cargo is destined for Southern California or the region west of
  the Rocky Mountains.
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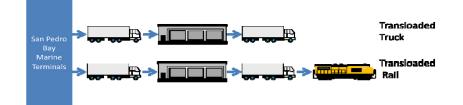




Local Cargo Distribution from Port of Los Angeles

## 1 1.2.2.7 Transloaded Intermodal

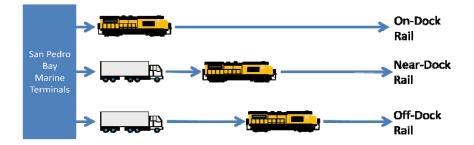
2 Transloaded intermodal cargo consists of containers that arrive at marine terminals and 3 are then drayed to a warehouse or distribution center for processing. Processing can 4 consist of repackaging, sorting, tagging, and/or labeling before being reloaded into 5 containers for transport to their final destinations. There are two types of transloaded 6 intermodal cargo: transloaded trucks and transloaded rail containers (Figure 1-4). For 7 transloaded trucks, after the cargo is repackaged at the warehouse, the containers are 8 transported by trucks to their local or regional destinations. For transloaded rail, after the 9 cargo is repackaged at the warehouse, the containers are transported to an off-dock 10 railyard (see Section 1.2.2.8, below) for eventual transport out of the region by rail to 11 national markets. Transloaded rail is almost always destined for points east of the Rocky 12 Mountains. A study conducted by the Ports of Los Angeles and Long Beach in 2012 determined that approximately 27 percent of the import containers (and their cargo 13 14 contents) in 2011/2012 were transloaded to 53-foot domestic intermodal rail containers. 15 An additional 13 percent of import containers were transloaded to trucks for regional and western states distribution/delivery. The amount of transloaded import cargo to rail is 16 17 forecast to be about 30 percent in 2030 (for the purposes of this EIS/EIR, 30 percent is 18 also applied to the 2038 analysis year, the final year analyzed). The amount of 19 transloaded cargo to trucks is forecast to be 13 percent in 2030 (applied to 2038 analysis 20 vear).



#### 21 Figure 1- 4: Transloaded Cargo

#### 22 1.2.2.8 Direct Intermodal

23 "Direct intermodal" is the movement of containers directly between the Port and a 24 railyard. As shown in Figure 1-5, three types of railyards are used for direct intermodal: 25 on-dock railyards, near-dock railyards, and off-dock railyards. On-dock railyards are 26 located within marine terminals, near-dock railyards are less than five miles from marine 27 terminals, and off-dock railyards are more than five miles from marine terminals. As 28 discussed more fully below, there is no draying of containers associated with on-dock 29 railyards because the railyard is located within the marine terminals, although in-terminal 30 truck movements are needed to re-position containers.



1 Figure 1-5: Direct Intermodal Cargo Flow

Near- and off-dock railyards do require draying of containers because those railyards are outside of the marine terminals. After containers are sorted and loaded onto railcars at an on-, near-, or off-dock railyard, they are moved by rail to their final destination, which is usually east of the Rocky Mountains. In 2012, on-dock and near/off-dock railyards handled 25 percent and 11.2 percent, respectively, of the containers moved from the Ports. The remaining cargo was moved by truck (including the aforementioned containers with transloaded imported cargo to rail and trucks) primarily to local destinations (see Section 1.2.2.7 for more detail).

10The following sections provide a more detailed description of on-dock, near-dock, and11off-dock railyards.

#### 12 On-Dock Rail

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On-dock rail allows containers to be loaded at a marine terminal for transport by rail to areas outside the region eliminating the need to dray containers to another rail facility outside the marine terminal. On-dock railyards are located within marine cargo terminals at the Ports (the railyards are never adjacent to the vessel berths, because cargo loading requirements make it impracticable to load containers directly from ships onto trains, but rather at one edge of the terminal). In general, containers are off-loaded from a cargo ship by cranes onto chassis or other trailer-like equipment and moved by yard tractors either directly to a waiting railcar in the on-dock railyard or a designated container staging area in the terminal's backlands. Containers are moved from ships or the terminal's backlands to the railyard without having to go through the terminal gate and onto local roadways.

24Typically, trains built on-dock consist of railcars that are all bound for the same25destination, although exceptions do occur. Most cargo that cannot fill a single-26destination train on-dock is drayed to an off-dock or near-dock railyard to be combined27with cargo from other marine terminals headed for the same destination. Some28intermodal containers are loaded onto rail cars on-dock, and short blocks of rail cars are29transported to near dock railyards for combination with other blocks from other terminals30in a single-destination train.

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1 Near-Dock Rail

A near-dock railyard is defined as a railyard located less than five miles outside of the marine terminal, thus requiring a short truck trip from the marine terminal to the railyard via the street system. A near-dock railyard permits the railroad to combine cargo from various marine terminals and build trains that efficiently transport cargo to specific destinations throughout the country. For example, a terminal may have enough containers to build a unit train<sup>9</sup> to Chicago but may only have enough containers bound for Kansas to build half a train. The Kansas-bound containers would, therefore, be transported to a near-dock facility to be combined with other Kansas-bound containers from other terminals to make up a unit train to Kansas. Currently, only one near-dock railyard, the UP ICTF located in the City of Los Angeles near Carson, serves the Port Complex (Figure 1-6).

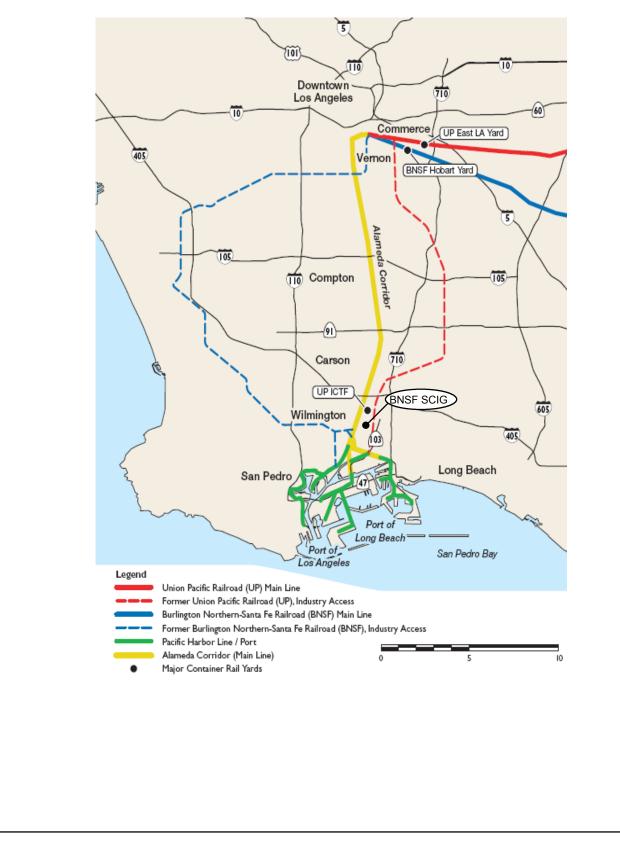
#### 13 Off-Dock Rail

14 Off-dock railyards are located farther (more than five miles) from marine terminals. 15 Currently, there are five off-dock railyards in the region, three operated by UP and two 16 operated by BNSF, but only two handle substantial numbers of containers from the 17 San Pedro Bay Ports: the BNSF Hobart/Commerce Yard (Hobart Yard) in 18 Los Angeles/Commerce/Vernon and the UP East Los Angeles Yard (East LA Yard) 19 (Figure 1-6). Both railyards are located near downtown Los Angeles, approximately 20 24 miles north of the Ports. The remaining off-dock railyards include the UP 21 Los Angeles Trailer and Container Intermodal Facility, the UP City of Industry yard, and 22 the BNSF San Bernardino yard. The East LA and Hobart yards handled most of the 23 international cargo not handled by on-dock yards and the ICTF. All of the off-dock 24 railyards in the region handle more domestic and transloaded containers than international containers. 25

26 Off-dock railyards operate in similar fashion to near-dock railyards. Containers are 27 draved from a marine terminal to an off-dock railyard by truck, generally via 28 Interstate 710. At the off-dock railyard, containers are either immediately loaded onto a 29 railcar or staged temporarily at the railyard until a train bound for the destination of the 30 stored container can be built. Off-dock rail yards can serve multiple marine terminals (including those that do not have on-dock facilities). One drawback of off-dock railyards 31 32 compared with on-dock or near-dock railyards is that containers must be draved greater 33 distances, adding to congestion on roadways and increased air emissions in the region and other environmental impacts. 34

<sup>35</sup> 36

<sup>&</sup>lt;sup>9</sup> A unit train, also called a block train, is a railway train in which all of the cars that make it up are shipped from the same origin to the same destination, without being split up or stored en route. This saves time and money as well as the hassle, delay, and confusion associated with assembling and disassembling trains at railyards near the origin and destination.



Source: Port of Los Angeles, 2003

Figure 1-6 Location of Existing Near-Dock and Off-Dock Railyards



Berths 226-236 [Everport] Container Terminal Improvements Project

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#### Intermodal Railyard Operations

As mentioned above, intermodal railyard operations generally involve trucks, container handling equipment, and trains. On-dock railyards, however, typically do not involve on-road trucks because containers are moved between the railyard and the ships or storage yard within the terminal by yard equipment. In the case of off-dock and neardock facilities, drayage trucks arrive at and depart from the facility hauling 20- or 40-foot shipping containers on chassis. The majority of trucks (or, in the case of on-dock facilities, yard tractors) are directed straight to trackside where a mobile crane lifts the container off the chassis and places it on a railcar for further shipment or lifts a container off of a railcar and places it on the truck chassis. The mobile cranes at off-dock and near-dock facilities are typically large structures that run on rails or fixed runways and span both rail tracks and truck lanes. The cranes at on-dock yards are typically smaller vehicles (called toplifts) that operate more like forklifts alongside of the tracks. Containers not immediately placed on railcars or trucks are stored in a designated container staging area to be loaded at a later time. Truck tractors with an empty chassis often pick up a container for an outbound trip to the marine terminals, although many leave empty.

- 18 Trains entering and leaving intermodal railyards consist of flatcar-like railcars known as 19 double-stack cars, which are designed especially for transporting shipping containers, and 20 several diesel-powered locomotives. Containers are stacked two high on the railcars, 21 thereby doubling the cars' capacity compared with a flatcar, which cannot handle double 22 stacking. The standard double-stack car is approximately 265 feet long, although some 23 are as long as 305 feet, and includes five bays, or wells, connected by articulated couplers 24 that allow the car to negotiate curves. Three-bay and single-bay cars are also used, 25 although they are less common than five-bay cars. A typical intermodal train is 26 composed of as many as 29 such cars, approximately 8,000 feet long (including 27 locomotives and inter-car spaces), and able to carry approximately 280 containers.
- 28The average train length handled by the Everport Container Terminal portion of the29TICTF is approximately 7,500 feet, which reflects limitations on the length and capacity30of the on-dock track segments and adjacent storage yard where trains are coupled and31uncoupled prior to arrival at the on-dock facility.
- 32 Inbound trains are routed onto loading tracks, known as "strip tracks." Because the strip tracks are typically much shorter than the train, the trains are uncoupled to break them 33 34 into two or more blocks, each of which is positioned on a strip track. On-dock railyards 35 are typically shorter than off-dock and near-dock yards; as such, more blocks, and 36 therefore more train movements, are necessary. The locomotives are uncoupled and 37 moved to locomotive servicing facilities for necessary inspections, refueling, and servicing. However, many on-dock facilities do not have on-site locomotive servicing 38 39 facilities so locomotives that frequent such facilities must be moved to the nearest 40 railroad facility such as Watson for BNSF, or Dolores for UP, for servicing. These switching activities are handled by locomotives called "yard locomotives." Such 41 42 locomotives have less horsepower than "line haul" locomotives, which move completed 43 trains over long distances to their ultimate destinations. Outbound trains are assembled ("built") and then leave the facility in essentially the reverse process, coupling together 44 45 two or more blocks of railcars to make a full train. The trains then depart after proper 46 inspections and testing.

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# 11.2.3San Pedro Bay Ports Cargo Growth and2Port Capacity

This section presents background information on long-term containerized cargo growth at the Ports. Facilities planning must take into account both the economy's demand for cargo and the capacity of the Ports and associated transportation infrastructure to handle that cargo. Long-term cargo growth forecasts are used as planning tools to understand and predict cargo volumes and Port-related activities for the movement of cargo. Terminal planning involves balancing existing and potential physical and operational capacities with market demand projections for cargo. Thus, the demand forecasts and the capacity modeling demonstrate a need for the Ports to be improved and expanded to accommodate future demand.

#### 12 **1.2.3.1 Cargo Demand Forecast**

13 In the last 40 years, containerized shipping through West Coast ports in the U.S. has 14 increased twentyfold, driven by increasing U.S. trade with Asian economies. In 2010, the 15 value of waterborne trade through West Coast ports reached \$494.7 billion; that number 16 increased to \$566.3 billion in 2011. Major West Coast ports, particularly the ports of Los 17 Angeles, Long Beach and Oakland, have continued to invest billions of dollars to 18 optimize facilities and accommodate increases in containerized shipping. These ports 19 have deepened their harbors to accommodate large, deep-draft container ships; 20 demolished existing facilities and built new container terminals in their place; and created 21 new land to provide space for additional container terminal backlands. Some marine 22 terminal operators have purchased high-speed cranes, modernized transportation 23 equipment, and increased automation to move containers more rapidly between ships and 24 trucks or trains. These and other improvements represent an ongoing effort to 25 accommodate the anticipated growth in cargo. Major projects are planned for both the 26 Port of Los Angeles and the Port of Long Beach well into the future.

- 27 To plan, design, and construct infrastructure, the Ports frequently develop detailed macro-28 economic cargo forecasts along with detailed terminal capacities (including micro-29 simulation). Anticipating the continued importance of containerized shipping, the Port of 30 Los Angeles and Port of Long Beach, along with USACE, conducted a series of studies 31 to forecast cargo volumes through 2020 and evaluate the capacity of the San Pedro Bay 32 Ports with respect to accommodating such cargo volumes. The cargo forecasts predicted 33 significant increases in containerized cargo from Pacific Rim countries to the Pacific 34 West Coast and the San Pedro Bay Ports. These forecasts were used as a basis for 35 development of an operations, facilities, and infrastructure study. That study concluded that the Ports needed to provide substantial additional physical facilities and make 36 37 operational improvements to provide the necessary capacity.
- 38 The resulting San Pedro Bay 2020 Plan included the construction of new container 39 terminals and the optimization of existing terminals at the Ports (POLB/POLA, 1990). 40 From the early 1990s to 2007, actual volumes of containerized cargo passing through the 41 two Ports exceeded the forecasts used to develop the San Pedro Bay 2020 Plan. 42 Following the 2020 Plan, the Ports commissioned two market-based forecasts, one in 43 2007 (The Tioga Group Inc. et al. 2007) and an update in 2009 (The Tioga Group Inc. 44 and IHS Global Insight, 2009). Even with the recession of 2001, up until 2007, the Ports experienced dramatic growth in cargo volumes with an average growth rate of more than 45

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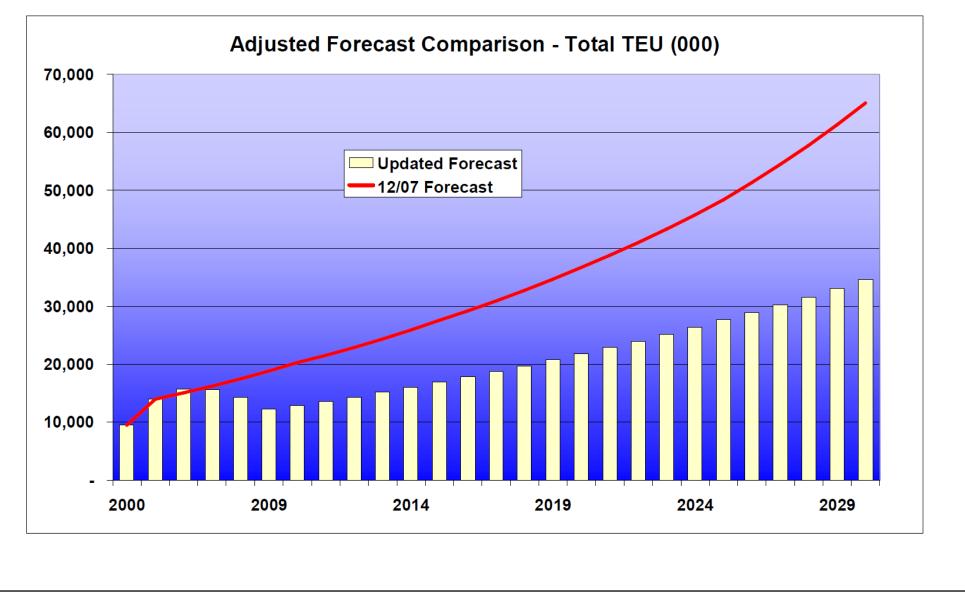
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10 percent per year between 1995 and 2006. In 2007, IHS Global Insight and Tioga Group prepared a long-term cargo forecast through 2030 for the Ports (The Tioga Group Inc. et al., 2007). That forecast was a demand-based (i.e., unconstrained) forecast that assumed transportation and infrastructure capacity would be available to meet the demand. The forecast approach was a long-term average trend projection that did not attempt to capture the timing of economic booms and recession cycles but instead plotted the average path around which those cycles would move.

- 8 Following the 2007 cargo forecast of 65,100,000 TEUs in 2030, the U.S. and world 9 economies entered a severe recession that dramatically affected international trade, 10 resulting in volumes at the Ports that were significantly below 2006 peak volumes. As a 11 result, the Ports reexamined the forecast cargo projections given the new economic 12 conditions in 2009 (The Tioga Group Inc. and IHS Global Insight, 2009), which started 13 from a lower base volume than the 2007 forecast, and predicted continuing declines in 14 cargo volume through 2009, with 2010 marking the end of the recession and a return to positive cargo growth rates. Essentially, the update predicted that it will take the Ports 15 16 six to seven years to return to the peak volumes of 2006 and that the Ports will continue 17 to grow at a slower pace than predicted in the 2007 forecast. The lower growth rates 18 mean that the gap between the new and the old forecasts will widen over time, eventually 19 resulting in a 47 percent gap in 2030.
- 20The 2009 forecast projected an annual throughput of 34,600,000 TEUs through the Port21Complex by 2030 (The Tioga Group Inc. and IHS Global Insight, 2009). Figure 1-722shows the updated forecast compared to the 2007 forecast. The Ports have extended this23market forecast to 2035 for use in long-range planning, design, and construction. The24additional growth forecast in 2035 is a direct extrapolation of the 2030 volumes, using a25growth rate of approximately 4.5 percent until each terminal's physical capacity is26reached.
- 27 Containerized cargo trade with China is projected to remain the largest and fastest 28 growing segment over the forecast period. Port-wide growth in imports from China are 29 expected to slow from the rates experienced in the early 2000s, averaging 5.5 percent per 30 year between 2020 and 2030. Containerized cargo from Southeast Asia is projected to become the second-largest source of imports by 2030, averaging 4.6 percent per year 31 32 between 2020 and 2030. Demand for ocean cargo tonnage from Latin American 33 countries through the Ports is projected to increase slowly, reflecting a loss of import 34 market share to Asia (The Tioga Group Inc. and IHS Global Insight, 2009).

#### 35 **1.2.3.2 Container Terminal Capacity**

36 The Ports evaluate the physical/operational capacity of the terminals to provide an 37 accurate and realistic forecast of future cargo throughput. To estimate the future 38 maximum or optimal capacity of each terminal through 2035, the Ports use a 39 methodology that relies on two capacity models, one that analyzes the terminals' 40 backland capacity and one that analyzes the terminals' berth capacity (a terminal could be 41 berth constrained or backlands constrained or evenly balanced between the two). The 42 modelers make realistic assumptions regarding different physical improvements (e.g., increasing the length of a berth or adding more container yard) and operating 43 44 parameters (e.g., increasing the number of hours worked per day or crane productivity or 45 decreasing the amount of time containers are allowed to remain in the terminal) to



Source: The Tioga Group, Inc., IHS Global Insight, 2009

Figure 1-7 Cargo Forecasts for the San Pedro Bay Port Complex

Berths 226-236 [Everport] Container Terminal Improvements Project



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estimate the future operating capacity of each terminal, including ones projected to be built. The capacity models may be further refined to consider various operational parameters. The assumptions, while reasonable, are not conservative. For example, terminals are assumed to be able to reach throughput levels greater than 10,000 TEUs per acre per year compared with current throughput levels of between 5,000 and 7,000 TEUs per acre. This approach allows the Ports and their businesses to identify shortfalls between future cargo volumes and the capacity of the terminals and supporting infrastructure (e.g., roads and railroads) to handle those volumes.

- 9 The results of the capacity modeling show that, even with the assumed changes in physical configurations and operating practices, future throughput at the San Pedro Bay 10 Ports will be constrained at 37,367,000 TEUs (POLA/POLB, 2015). Comparing the 11 12 unconstrained 2009 market demand forecast with the Ports' estimate of total marine 13 terminal capacity shows that the 2030 cargo demand of 34,600,000 TEUs will not exceed 14 future capacity of 37,367,000 TEUs. Therefore, to identify the year in which demand will reach or exceed capacity, a continual annualized growth rate of approximately 4.5 15 16 percent was assumed to extend the forecast until the aggregate capacity of the Ports is 17 reached. The results show cargo volumes increasing from approximately 34,600,000 TEUs in 2030 to approximately 37,367,000 TEUs by 2033. 18
- 19The environmental analysis in this EIS/EIR assumes that the physical and operational20capacities of Port container terminals will be fully utilized by future cargo volumes.21Actual throughput might be lower because of changes in consumer demand patterns22and/or economic conditions, but for the purposes of this EIS/EIR, it is assumed that the23Ports will operate at a maximum capacity of 37,367,000 TEUs by 2033. This24fundamental assumption is based on the 2009 cargo forecast and container terminal25capacity data available at the time of this analysis.

### 26 **1.2.3.3** Intermodal Cargo Demand and Capacity

27 In 2009, approximately 40 percent of all containers were conveyed directly between Port terminals and intermodal rail facilities, with the majority of this cargo being transported 28 29 via on-dock railyards. In 2013, the direct intermodal share decreased nominally to 30 approximately 35.3 percent; however, direct intermodal cargo (see Section 1.2.2.8 for 31 definitions) has generally remained at around 40 percent for the last 10 to 15 years and is 32 projected to remain at this level for the foreseeable future. Table 1-1 summarizes the Port 33 Complex intermodal projections used in this Draft EIS/EIR. The remaining cargo was 34 handled via trucks for delivery to local and regional locations.

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Year	<b>2013</b> <sup>a</sup>	2020	2030	2035
Total Port of Los Angeles/Port of Long Beach	14,618,177	21,827,000	34,563,000	37,367,000
On-Dock Railyards	3,617,635	6,272,344	9,978,700	10,336,534
	24.7%	28.7%	28.9%	27.7%
Off-/Near-Dock Railyards	1,530,421	2,458,456	3,846,500	4,610,266
	10.5%	11.3%	11.1%	12.3%
Total Port of Los Angeles/Port of Long Beach Intermodal	35.2%	40%	40%	40%
Transloaded imports to rail, TEU (via 53- foot containers)	2,011,385	3,399,821	5,411,529	5,850,551

Table 1-1: San Pedro Bay Ports Direct Intermodal Cargo Forecast

Notes:<sup>a</sup> 2013 represents actual intermodal cargo movements.

1 2 A key factor in the cargo forecast is the future capacity of on-dock rail facilities and their 3 operational constraints, because direct intermodal cargo that cannot be handled by on-4 dock yards must be handled by near/off-dock yards. The goal of the Ports is to maximize 5 on-dock rail operations within the Ports as contemplated by the LAHD's Intermodal Rail 6 Policy, adopted in Resolution 6297 on August 11, 2004 (LAHD, 2004), which calls for 7 on-dock and near-dock intermodal facilities for shippers, carriers, terminal operators, and 8 Class I Railroads. To achieve this goal, the Ports encourage the marine terminals to 9 schedule round-the-clock shifts and optimize labor rules, and the railroads have increased 10 their operational efficiencies to increase capacity at on-dock facilities. Furthermore, both 11 Ports plan to expand their rail infrastructure over the next ten years. The proposed 12 changes are expected to increase on-dock rail capacity by more than threefold. Table 1-2 13 identifies the existing and planned on-dock railyards within the Port Complex, and Figure 14 1-8 shows the location of each of the on-dock facilities. 15 If all of the proposed changes can be constructed on the assumed timetable, projected on-

16 dock railyard use will reach approximately 11,500,000 TEUs by 2035.

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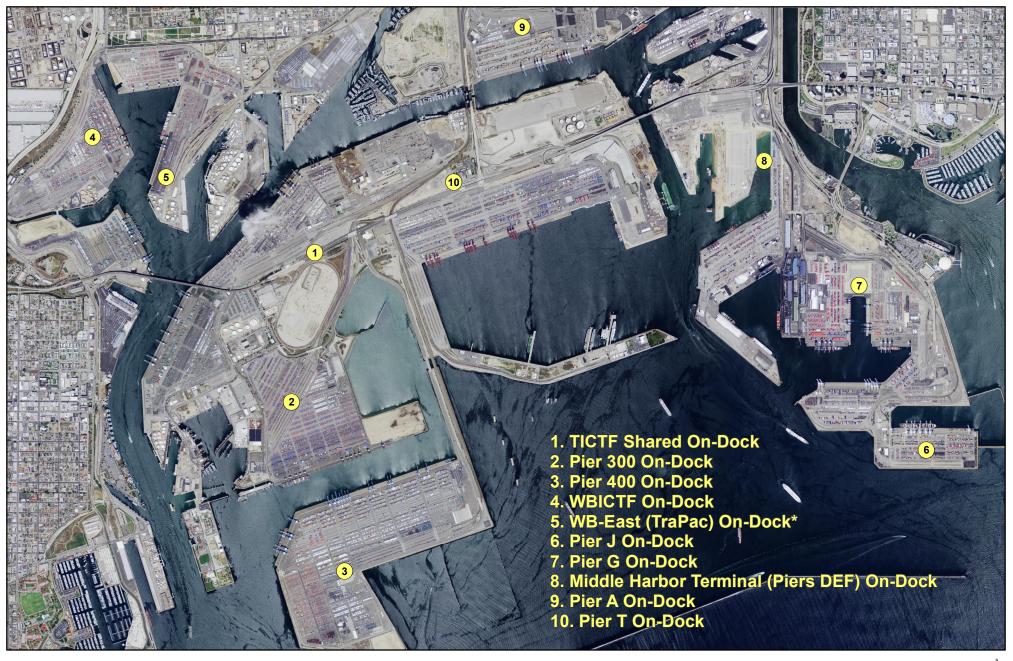
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Table 1-2: E	xisting and Planned On-Dock Railyards
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On-Dock Rail Facility	Location	Status as of 2015
TICTF	Port of Los Angeles: YTI and Everport Container Terminals	Operating: proposed expansion by YTI, recently approved
Pier 300	Port of Los Angeles: American President Lines Terminal	Operating: proposed expansion
Pier 400	Port of Los Angeles: APM/Maersk Terminal	Operating: proposed expansion
West Basin Intermodal Container Transfer Facility (WBICTF)	Port of Los Angeles: West Basin Container Terminal (serving YML and CS)	Operating: proposed expansion
WB-East (TraPac Container Terminal)	Port of Los Angeles: TraPac	Under construction.
Pier J	Port of Long Beach: SSA Pacific Container Terminal	Operating: proposed expansion on hold
Pier G	Port of Long Beach: International Transportation Services Terminal	Operating: expansion completed for North Railyard; South Railyard renovation proposed
Middle Harbor Terminal (Piers D-F)	Port of Long Beach: Long Beach Container Terminal	Expansion under construction with completion expected end of 2019 (LBCT IY currently operating)
Pier A	Port of Long Beach: SSA Pier A Terminal	Operating: proposed expansion
Pier T	Port of Long Beach: TTI Terminal	Operating: no proposed expansion at this time

Source: LAHD, 2015; POLB person com., 2015



Aerial Source: USDA NAIP, 2012 Note: \*Planned New On-Dock Rail

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Figure 1-8 San Pedro Bay Port Complex On-Dock Railyards



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## Purpose of an EIS/EIR

This section provides an overview of NEPA and CEQA, which respectively require the preparation of an EIS or an EIR for projects that could significantly affect the environment.

#### 1.3.1 NEPA and the Purpose of an EIS 6

- NEPA was enacted by Congress in 1969. It requires federal agency decision makers to document and consider the consequences of their actions or decisions on the quality of the human environment. In enacting NEPA, Congress intended to ensure that environmental information would be available to public officials and citizens before decisions would be made and before actions would be taken. It further was intended that NEPA would help public officials make decisions based on an understanding of the environmental consequences and take action to protect, restore, and enhance the environment.
- 15 When a federal agency determines that a federal action associated with a proposed project could result in significant environmental effects, an EIS is prepared, which must 16 17 provide a full and fair discussion of anticipated significant environmental impacts of the 18 proposed Project and alternatives. The EIS informs decision makers and the public of the 19 reasonable alternatives to avoid or minimize significant impacts or enhance the quality of 20 the human environment. An EIS is not only a disclosure document but also a decision-21 making aid that is used by federal officials in conjunction with other relevant material to 22 plan actions and make decisions.

#### 1.3.2CEQA and the Purpose of an EIR 23

CEQA was enacted by the California Legislature in 1970, with the intent that all agencies of the state government that "regulate activities of private individuals, corporations, and public agencies that are found to affect the quality of the environment shall regulate such activities so that major consideration is given to preventing environmental damage while providing a decent home and satisfying living environment for every Californian" (PRC Section 21000, subd. (g); see also Section 21001 (Legislative Intent).) Public agency decision makers are therefore required to consider and document the potentially significant adverse environmental effects of their actions and, whenever possible, avoid adverse effects on the environment. When a public agency determines that substantial evidence in light of the whole record shows that an agency action, such as approval and implementation of the proposed Project, may have a significant impact on the environment, an EIR must be prepared. The purpose of an EIR is to identify the reasonably foreseeable significant adverse impacts of a proposed project on the physical environment, identify alternatives to reduce the project's significant effects while attaining all or most of the project objectives, and indicate the manner in which a project's significant effects can be mitigated or avoided. A public agency must mitigate or avoid significant environmental impacts of projects it carries out or approves whenever feasible. In instances where significant impacts cannot be avoided or mitigated, the project can nonetheless be carried out or approved if the approving agency finds that economic, legal, social, technological, or other benefits outweigh the unavoidable significant environmental effects. Similar to an EIS, an EIR is intended to be a full disclosure document and an aid to the public decision-making process.

## **1.4** Lead, Responsible, and Trustee Agencies

2 3 4 5 6 7	Both NEPA and CEQA define roles for "lead agencies." Under NEPA, the lead agency is that entity that prepares or takes primary responsibility for preparing the NEPA document. Under CEQA, the lead agency is the public agency that has principal responsibility for carrying out or approving a project. The CEQA lead agency will decide whether an EIR or negative declaration will be required for the project and cause the document to be prepared (Guidelines Section 15367).
8 9 10 11 12	USACE and LAHD are the NEPA and CEQA lead agencies, respectively, for the proposed Project, including the evaluation of potential impacts and identification of mitigation measures under the federal NEPA and state CEQA laws. USACE and LAHD are preparing this joint EIS/EIR in the interest of efficiency and to avoid duplication of effort.
13 14 15 16 17 18 19 20 21 22	Implementation of the proposed Project will also require permits and approvals from public agencies other than the lead agencies. These other public agencies are referred to as responsible agencies and trustee agencies under CEQA (State CEQA Guidelines Sections 15381 and 15386) and cooperating agencies under NEPA (e.g., USACE and EPA). Responsible agencies are state or local public agencies other than the CEQA lead agency that have discretionary approval over the Project. In most circumstances, CEQA requires a responsible agency to use the lead agency's CEQA document to support its own decision-making process (State CEQA Guidelines Section 15096). Trustee agencies include state agencies that have jurisdiction by law over natural resources affected by a project that are held in trust for the people of California.
23 24	Specifically, Section 15381 of the State CEQA Guidelines defines a "responsible agency" as:
25 26 27 28 29	a public agency which proposes to carry out or approve a project, for which a lead agency is preparing or has prepared an EIR or Negative Declaration. For the purposes of CEQA, the term "Responsible Agency" includes all public agencies other than the lead agency which have discretionary approval power over the project.
30	Additionally, Section 15386 of the State CEQA Guidelines defines a "trustee agency" as:
31 32 33	a state agency having jurisdiction by law over natural resources affected by a project which are held in trust for the people of the State of California.
34 35 36	Table 1-3 lists the lead, responsible, and trustee federal, state, and local agencies that could rely on the EIS/EIR in a review capacity or as a basis for issuance of a permit or other approval for the proposed Project.
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Agency	es that Are Expected to Use This EIS/EIR Responsibilities, Permits, and Approvals	
Federal Agencies		
U.S. Army Corps of Engineers (USACE)	Lead federal agency for implementation of NEPA on the proposed Project. Responsible for permitting work and structures in navigable waters, discharges of dredged or fill material in waters of the U.S., and transport for the purpose of disposal of dredged material at U.S. Environmental Protection Agency designated sites in ocean waters. It is anticipated that a Department of Army (DA) permit, pursuant to Section 10 of the River and Harbor Act (RHA) and Section 103 of the Marine Protection, Research, and Sanctuaries Act (MPRSA), would be required for the proposed Project.	
National Oceanographic and Atmospheric Agency (NOAA) Fisheries/National Marine Fisheries Service (NMFS)	Reviews federal actions in accordance with the Fish and Wildlife Coordination Act and consultations pursuant to Section 7 of the federal Endangered Species Act (ESA) for marine species. Administers Marine Mammal Protection Act (MMPA) for most marine species. Also responsible for consultations on impacts to Essential Fish Habitat (EFH) under the Magnuson-Stevens Fishery Conservation and Management Act. Provides EFH information, reviews potential effects of federal action on EFH, and provides conservation recommendations to USACE through consultation. Authorizes "takes" of certain species under the MMPA and ESA.	
U.S. Coast Guard (USCG)	Has jurisdiction over marine facilities, bridges, and vessel transportation in harbor waters. Responsible for ensuring safe navigation and for preventing and responding to oil or hazardous materials releases in the marine environment.	
U.S. Environmental Protection Agency (EPA)	Has primary responsibility for implementing the federal Clean Air Act and works with other federal agencies to implement conformity requirements. Reviews and submits recommendations for Spill Prevention Control and Countermeasure Plans for non-transportation-related onshore and offshore facilities engaged in storing, processing, refining, transferring, distributing, or consuming oil and gas products. Regulatory authority for determining suitability and permitting transport of dredged sediments for and the purpose of ocean disposal in accordance with Section 103 of the MPRSA. Reviews and submits recommendations to USACE related to federal construction actions and issuance of Section 404 and 103 permits, as applicable.	
U.S. Fish and Wildlife Service (USFWS)	Reviews federal actions in accordance with the Fish and Wildlife Coordination Act and consults pursuant to Section 7 of the federal ESA for all terrestrial and some marine species. take" under the Authorizes "take" Migratory Bird Treaty Act (MBTA) and ESA for certain species.	
State Agencies		
California Air Resources Board	Permitting/registering authority for various equipment, such as trucks and reefer units. Enforcement authority for shore power	

Table 1-3: Agencies that Are Expected to Use This EIS/EIR

Agency	Responsibilities, Permits, and Approvals
(CARB)	regulations, requiring reductions in emissions from ship auxiliary engines through 2020 (17 CCR 93118.3).
California Coastal Commission (CCC)	Reviews environmental documents to ensure compliance with the federal Coastal Zone Management Act and consistency with the California Coastal Act; performs a federal Consistency Determination if ocean disposal of dredge material is proposed; reviews and must approve Port of Los Angeles Master Plan (PMP) amendments.
California Department of Fish and Wildlife (CDFW)	Reviews and submits recommendations in accordance with CEQA. Consults with lead agencies in accordance with the Fish and Wildlife Coordination Act. Issuance of Memoranda of Understanding and permits pertaining to take of state-listed species under the California Endangered Species Act.
California Department of Transportation (Caltrans)	Permitting authority for highway improvements and rail trackage, connections, and signage.
California Office of Historic Preservation	Consults with the USACE under Section 106 of the National Historic Preservation Act regarding impacts on cultural resources (e.g., prehistoric sites, demolition of historic buildings and structures) listed or eligible for listing on the National Register of Historic Places.
California Public Utilities Commission (CPUC)	Permitting authority for rail trackage, connections, crossings, and signage.
California Department of Resources Recycling and Recovery (CalRecycle)	Statutory and regulatory authority to control the handling and disposal of solid, nonhazardous waste in a manner that protects public safety, health, and the environment. State law assigns responsibility for solid waste management to local governments.
Regional Water Quality Control Board, Los Angeles Region (LARWQCB)	Permitting authority for federal Clean Water Act (CWA) Section 401 Water Quality Certifications; permitting authority for California Waste Discharge Requirements pursuant to the state Porter-Cologne Water Quality Control Act; and responsible for issuance of both construction and industrial National Pollutant Discharge Elimination System (NPDES) stormwater permits under Section 402 of the CWA. Issuing authority of municipal separate storm sewer system (MS4) permit to City of Los Angeles.
California State Lands Commission (CSLC)	Dredging and dredge material disposal activities in state tidelands. CSLC has oversight responsibility for tidal and submerged lands legislatively granted in trust to local jurisdictions, and has adopted regulations for the inspection and monitoring of marine terminals. CSLC inspects and monitors all marine facilities for effects on public health, safety, and the

Table 1-3: Agencies that Are Expected to Use This EIS/EIR

Agency	es that Are Expected to Use This EIS/EIR Responsibilities, Permits, and Approvals		
	environment.		
Department of Toxic Substances Control (DTSC) division of the California Environmental Protection Agency (CalEPA)	Regulatory jurisdiction over underground storage tanks containing hazardous material and implements groundwater monitoring provision of the Resource Conservation and Recovery Act. Responsible for general site cleanup outside underground storage tanks (such as state Superfund sites).		
Regional Agencies			
Los Angeles County Fire Department	Licensing and inspection authority for all hazardous waste generation in the City of Los Angeles. Provides regulation and oversight of site remediation projects involving hazardous waste generators, where surface and subsurface soils are contaminated with hazardous substances.		
South Coast Air Quality Management District (SCAQMD)	Permitting authority for construction landfills sand operation of predominately stationary sources of emissions at facilities operating within the South Coast Air Basin. At a terminal, this can include but is not limited to pump stations, storage tanks, activities involving hydrocarbon-containing soils (Rule 1166); and new or modified sources of air emissions (New Source Review).		
Southern California Association of Governments (SCAG)	Responsible for developing regional plans for transportation and federal conformity, as well as developing growth factors used in forecasting air emissions in the South Coast Air Basin.		
Local Agencies			
City of Los Angeles Harbor Department (LAHD)	The City of Los Angeles, through its Harbor Department, is the lead agency for CEQA and the California Coastal Act, for most projects within the harbor (via the certified PMP). Other City departments have various approval and permitting responsibilities, however, and are listed separately below for the sake of clarity.		
	Pursuant to its authority, LAHD could issue permits and other approvals (e.g., coastal development permits, leases for occupancy of Port land, approval of operating, and joint venture or other types of agreements for the operation of facilities) for the proposed Project and alternatives evaluated in this Draft EIS/EIR. LAHD has leasing authority for Port land, permitting authority for engineering construction, and is responsible for general regulatory compliance and activities of other City of Los Angeles departments for the proposed Project and alternatives evaluated in this Draft EIS/EIR.		
City of Los Angeles Building and Safety Department	Permitting authority for building and grading permits. Approves, in conjunction with City of Los Angeles Bureau of Sanitation, any required Standard Urban Stormwater Mitigation Plans or Site		

Table 1-3: Agencies that Are Expected to Use This EIS/EIR

Agency	Responsibilities, Permits, and Approvals		
	Specific Mitigation Plans. Such plans implement requirements of the MS4 permit that has been issued by LARWQCB to the City of Los Angeles.		
City of Los Angeles Bureau of Engineering	Permitting authority for storm drain connections, permit for discharges of stormwater, permits for water discharges to the wastewater collection system, and approval of street vacations.		
City of Los Angeles Bureau of Sanitation	Permitting authority for Industrial Waste Permit for discharges of industrial wastewater to the City sewer system. Approves, in conjunction with the City of Los Angeles Building and Safety Department, any required Standard Urban Stormwater Mitigation Plans or Site Specific Mitigation Plans that may be necessary to implement MS4 permits issued by the regional water quality control board.		
City of Los Angeles Fire Department	Approval of Business Plan and Risk Management and Prevention Program. Reviews and submits recommendations regarding design for building permit.		
City of Los Angeles Transportation Department	Reviews and approves changes in City street design, construction, signalization, signage, and traffic counts.		
City of Los Angeles Planning Department	Zone changes or general plan amendments.		

Table 1-3: Agencies that Are Expected to Use This EIS/EIR

# 1 1.5 Scope and Content of the Draft EIS/EIR

The scope of this Draft EIS/EIR was defined on the basis of an Initial Study (IS) prepared pursuant to CEQA (see Appendix A), and comments received during the Notice of Intent (NOI)/Notice of Preparation (NOP) review process.

The NEPA NOI was published in the *Federal Register* on October 24, 2014, and the CEQA NOP was also posted on October 24, 2014 (see Appendix A of this Draft EIS/EIR). A public scoping hearing was conducted on November 13, 2014, in San Pedro. No public comments were received during the scoping meeting; however, 10 comment letters were received. Table 1-4 summarizes key issues raised in the comment letters.

- 11Subsequent to the release of the NOI/NOP, refinements have been made to the proposed12Project, which are reflected in Chapter 2, Project Description. These refinements include13the following:
- Elimination of maintenance dredging at Berth 229;
  Increasing disposal of dredge material from 33,300 cubic yards to approximately 38,000 cubic yards (30,000 cubic yards from Berths 226 to 229, and 8,000 cubic yards from Berths 230-232);

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1 2	<ul> <li>Increasing the number of new 100-foot gauge A-frame gantry cranes from three to five;</li> </ul>
3	<ul> <li>Raising up to five of the eight existing crane heights;</li> </ul>
4	<ul> <li>Installing three-foot spacers between the wharf and existing wharf fenders;</li> </ul>
5	<ul> <li>Increasing the number of AMP vaults along the wharf from two to five; and,</li> </ul>
6 7	<ul> <li>Refining the projected terminal throughput from approximately 2.5 million TEUs to 2,379,525 TEUs.</li> </ul>
8	These refinements to the proposed Project do not represent substantial changes from the
9	NOI/NOP. These refinements are presented in the Project Description (Chapter 2) and
10	are evaluated herein.
11	The scope of analysis and technical study work plans, developed as part of preparing this
12	Draft EIS/EIR, were designed to ensure that the comments received from regulatory
13	agencies and the public during the NOI/NOP review process would be addressed.
14	Table 1-4 presents a summary of the key comments received during the NOI/NOP public

14Table 1-4 presents a summary of the key comments received during the NOI/NOP publi15comment period and references to the sections of this Draft EIS/EIR addressing them.

Commenter	Key Issues Raised	Sections Addressed
EPA	<ul> <li>Recommends that LAHD continue to demonstrate and deploy new technologies, particularly zero and near zero tailpipe</li> </ul>	Chapter 2, Project Description;
	emission technologies that could allow the air basin to attain the NAAQS.	Section 3.2, Air Quality and
	<ul> <li>Recommends that the Draft EIS evaluate vessel emissions under the Action</li> </ul>	Meteorology;
	Alternatives (a.k.a. build alternatives) to those of the No Action alternative (a.k.a. No Federal Action or NEPA baseline).	Section 3.5, Greenhouse Gas Emissions; and
	<ul> <li>Recommends that the Draft EIS address emissions from the containers passing through the terminal that will use off-dock, near-dock and on-dock rail facilities.</li> </ul>	Section 3.11, Water Quality, Oceanography, and Sediments
	- Recommends that the Draft EIS identify the types of truck transactions (single, dual, empty chassis, etc.) and explain how dual truck transactions can be used to reduce emissions.	
	- Recommends that the Draft EIS address greenhouse gas emissions and their contribution to climate change.	
	<ul> <li>Recommends that the Draft EIS include criteria for managing and disposing of dredge materials.</li> </ul>	
	- Recommends that the Draft EIS discuss	

#### Table 1-4: Summary of Key NOI/NOP Comments

Commenter	Key Issues Raised	Sections Addressed
	compliance with the 2013 Vessel Discharge Permit.	
	<ul> <li>Recommends that the Draft EIS identify whether action alternatives will provide contributions to community projects or grants.</li> </ul>	
	<ul> <li>Recommends that the Draft EIS consider data on asthma and other health effects on children and the community.</li> </ul>	
U.S. Coast Guard	<ul> <li>Recommends advanced coordination with the USCG.</li> </ul>	Chapter 2, Project Description
U.S. Department of interior – Bureau of Ocean Energy Management	<ul> <li>Recommends the Draft EIS address potential impacts to existing offshore oil and gas platforms due to increased vessel traffic.</li> </ul>	Section 3.9, Marine Transportation
California State Lands Commission (CSLC)	<ul> <li>Acknowledges that the proposed Project is located on sovereign submerged lands that have been transferred, in trust, to the City of Los Angeles (Statute of 1911, Chapter 656), and that the City should ensure that uses are consistent with the Public Trust Doctrine.</li> <li>Notes that the Project Description in the Draft EIS/EIR should be as detailed as possible.</li> <li>Recommends that USACE and LAHD should conduct queries of CDFW's California Natural Diversity Database and USFWS's Special Status Species Database to identify any special-status plant or wildlife species that may occur in the proposed Project area. Coordination with CDFW and USFWS, as well as direct surveys or data collection, should be performed.</li> </ul>	Chapter 1, Introduction;
		Chapter 2, Project Description;
		Section 3.2, Air Quality and Meteorology;
		Section 3.3, Biological
		Resources;
		Section 3.4, Cultural Resources;
		Section 3.5, Greenhouse Gas Emissions;
	<ul> <li>Notes that the Draft EIS/EIR should consider the proposed Project's potential to encourage the establishment or proliferation of marine invasive species. If significant impacts are determined, mitigation should be considered including contracting vessels and barges from nearby, or requiring hull cleaning.</li> <li>Recommends that the EIS/EIR include a</li> </ul>	

Commenter	Key Issues Raised	Sections Addressed
	discussion of sea level rise, as it pertains to the proposed Project, based on need rather than cost-effectiveness.	
	<ul> <li>Notes that the Draft EIS/EIR should evaluate potential impacts on submerged cultural resources in the proposed Project area, including consultation with CSLC's shipwrecks database.</li> </ul>	
	<ul> <li>Notes that title to all abandoned shipwrecks, archaeological sites, and historic or cultural resources on or in the tide and submerged lands is vested in the state and under the jurisdiction of the CSLC.</li> </ul>	
	<ul> <li>Notes that the EIS/EIR should avoid the improper deferral of mitigation.</li> </ul>	
South Coast Air Quality Management	<ul> <li>Requests copy of Draft EIR along with all appendices and related technical documents.</li> </ul>	Chapter 2, Project Description;
District (SCAQMD)	<ul> <li>Notes that the SCAQMD CEQA Air Quality Handbook (1993) is available to assist with preparation of the air quality analysis, and that CalEEMOD is the preferred land use emissions model.</li> </ul>	Section 3.2, Air Quality and Meteorology
	<ul> <li>Notes that the Draft EIS/EIR should identify any potential adverse air quality impacts from all phases of the proposed Project (construction and operation) and all air pollutant sources related to the proposed Project.</li> </ul>	
	<ul> <li>Recommends quantifying emissions and comparing against SCAQMD's regional thresholds.</li> </ul>	
	- Recommends quantifying localized air quality impacts using SCAQMD methodology and guidance, and compare the results to SCAQMD's localized significance thresholds (LSTs) or performing dispersion modeling if necessary.	
	<ul> <li>Recommends performing a mobile-source health risk assessment using SCAQMD guidance.</li> </ul>	
	<ul> <li>Notes that CEQA requires the identification of all feasible mitigation measures, including those that go beyond what is required by</li> </ul>	

#### Table 1-4: Summary of Key NOI/NOP Comments

Commenter	Key Issues Raised	Sections Addressed
	<ul> <li>law.</li> <li>Notes that SCAQMD rules and relevant air quality reports and data are available through the Public Information Center and SCAQMD website.</li> </ul>	
Native American Heritage Commission (NAHC)	<ul> <li>Recommends performing a record search of the Project area to determine if the area has been surveyed for cultural resources, and to determine the potential for resources to be present.</li> </ul>	Section 3.4, Cultural Resources
	<ul> <li>Recommends parameters for preparing an archaeological survey report.</li> </ul>	
	<ul> <li>Recommends contacting the NAHC to perform a Sacred Lands File Check and to obtain a list of appropriate Native American contacts.</li> </ul>	
	<ul> <li>Recommends the preparation of mitigation plans to address archaeological resources, and provides parameters for those plans.</li> </ul>	
Southern California Association of Governments	<ul> <li>Requests copy of environmental documentation be sent to SCAG's Los Angeles office or via e-mail for the full comment period.</li> </ul>	Appendix A, NOP/IS – Land Use and Planning;
(SCAG)	<ul> <li>Requests that the Draft EIS/EIR include a review and consideration of the adopted Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) goals.</li> </ul>	Section 3.6, Ground Transportation
City of Los Angeles, Bureau of	<ul> <li>Notes that sewer relocations, if required, should be coordinated with the Bureau of Sanitation.</li> </ul>	Chapter 2, Project Description;
Sanitation	- Notes that stormwater mitigation measures based on the Standard Urban Stormwater Mitigation Plan and Low Impact Development may be required and early phases of the proposed Project should be coordinated with the Bureau's Watershed Protection Division.	Section 3.11, Water Quality, Oceanography, and Sediments
	<ul> <li>Provides requirements for stormwater control during construction.</li> </ul>	
Exxon Mobil	<ul> <li>Provides information regarding an existing abandoned pipeline in the Project vicinity.</li> </ul>	Chapter 2, Project
	<ul> <li>Notes that Exxon Mobil personnel must be present during construction in the vicinity of</li> </ul>	Description

Commenter	Key Issues Raised	Sections Addressed
	Exxon Mobil facilities.	
	<ul> <li>Notes that facilities identified as active, idle or abandoned remain the property of Exxon Mobil and activities that affect these facilities must be approved by Exxon Mobile.</li> </ul>	
Kinder Morgan	<ul> <li>Notes that Kinder Morgan does not have any facilities in the Project area.</li> </ul>	Not applicable.

Table 1-4:	Summary	of Key	NOI/NOP	Comments
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## 2 1.5.1 Scope of Analysis

This Draft EIS/EIR has been prepared in conformance with NEPA (42 USC 4321 et seq.), the USACE NEPA Implementing Regulations at 33 CFR Parts 230 and 325, CEQA (California PRC Section 21000 et seq.), the State CEQA Guidelines (14 CCR 15000 et seq.), and the City of Los Angeles *L.A. CEQA Thresholds Guide*. This document includes all of the sections required by NEPA and CEQA.

- 8 The criteria for determining the significance of environmental impacts in this Draft 9 EIS/EIR analysis are described in the "Significance Criteria" sections of each resource 10 topic in Chapter 3, Environmental Analysis. The threshold of significance for a given 11 environmental effect is the level at which LAHD or USACE finds a potential effect of the 12 proposed Project or alternative to be significant.
- 13 Under CEQA, a "threshold of significance" can be defined as a "quantitative or 14 qualitative standard, or set of criteria, pursuant to which significance of a given 15 environmental effect could be determined" (State CEQA Guidelines, Section 15064.7(a)). 16 Except as noted in particular sections of the document, LAHD has adopted the City of 17 Los Angeles L.A. CEQA Thresholds Guide for purposes of this Draft EIS/EIR (City of 18 Los Angeles, 2006). Likewise, USACE has adopted the City of Los Angeles L.A. CEOA 19 Thresholds Guide for purposes of this Draft EIS/EIR to achieve its NEPA 20 responsibilities, unless otherwise noted in particular sections of the document.
- 21Under NEPA, the scope of the federal review is guided by 33 CFR 325, Appendix B,22which states:
- ...the [USACE] district engineer should establish the scope of the NEPA
  document to address the impacts of the specific activity regarding the
  Department of the Army (DA) permit and those portions of the entire
  project over which the district engineer has sufficient control and
  responsibility to warrant Federal review.
- USACE regulations require USACE to determine if its "scope of review" or "scope of analysis" should be expanded to account for indirect and/or cumulative effects of the issuance of a permit (33 CFR 325 Appendix B). The four factors considered in

1 2		determining "sufficient control and responsibility" include the following and are discussed further in Section 2.8 of Chapter 2, Project Description:
3 4		<ul> <li>whether or not the regulated activity comprises merely a link in a corridor-type project;</li> </ul>
5 6		<ul> <li>whether there are aspects of the upland facility in the immediate vicinity of the regulated activity affect the location and configuration of the regulated activity;</li> </ul>
7		<ul> <li>the extent to which the entire project will fall within USACE jurisdiction; and</li> </ul>
8		<ul> <li>the extent of cumulative federal control and responsibility.</li> </ul>
9		The following issues are evaluated in this Draft EIS/EIR.
		<ul> <li>Aesthetics and Visual</li> <li>Resources</li> <li>Hazards and Hazardous Materials</li> </ul>
		Air Quality and Meteorology
		Biological Resources
		Cultural Resources
		<ul> <li>Greenhouse Gas Emissions</li> <li>Water Quality, Sediments, and</li> <li>Oceanography</li> </ul>
		<ul> <li>Ground Transportation</li> <li>Ground Transportation</li> </ul>
10 11 12 13		Environmental resource areas that were eliminated in the NOI/NOP and Scoping Process (see Appendix A of this Draft EIS/EIR) were: agricultural and forest resources, mineral resources, land use and planning, population and housing, recreation, and utilities and public services.
14 15 16 17 18		This Draft EIS/EIR has been prepared by CDM Smith under contract to LAHD and has been reviewed independently by USACE and LAHD staff. The scope of the document, methods of analysis and conclusions represent the independent judgments of USACE and LAHD. Staff members from USACE, LAHD, and CDM Smith who helped prepare this Draft EIS/EIR are identified in Chapter 11, List of Preparers and Contributors.
19	1.5.2	Intended Uses of This Draft EIS/EIR
20 21 22 23 24 25 26 27 28 29		<ul> <li>This Draft EIS/EIR has been prepared in accordance with applicable federal and state environmental regulations, policy, and law to inform federal, state, and local decision-makers about the potential environmental impacts of the proposed Project and alternatives. As an informational document, an EIS/EIR does not recommend approval or denial of a project. The Draft EIS/EIR is being provided to the public for review, comment, and participation in the planning process. After public review and comment, a Final EIS/EIR will be prepared, including responses to comments on the Draft EIS/EIR received from agencies, organizations, and individuals. The Final EIS/EIR will be distributed to provide the basis for decision-making by the NEPA and CEQA lead agencies, as well as other concerned agencies.</li> </ul>
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## 1 **1.5.2.1 USACE Use**

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USACE has jurisdictional authority over the proposed Project pursuant to Section 10 of the RHA and Section 103 of the MPRSA; USEPA also has approval authority for actions involving Section 103 of the MPRSA. USACE will consider this document in permit actions that LAHD might undertake to implement the proposed Project or an alternative. This document does not serve as the public notice for any Department of the Army (DA) permit. Rather, such public notice of a DA permit application is being published separately from and concurrently with the public review period for this Draft EIS/EIR.

9USACE's Record of Decision will document USACE's decision on the proposed Project10or alternative, including issuance of any permit pursuant to Section 10 of the RHA and/or11Section 103 of the MPRSA, as well as any required environmental mitigation12commitments.

#### 13 **1.5.2.2 LAHD Use**

- 14 LAHD has jurisdictional authority over the proposed Project primarily pursuant to the 15 Tidelands Trust, California Coastal Act, and the Los Angeles City Charter. This Draft 16 EIS/EIR will be used by LAHD, as the lead agency under CEQA, in making a decision 17 regarding the construction and operation of the proposed Project or alternative and in 18 informing agencies considering permit applications and other actions required to 19 construct, lease, and operate the proposed Project or alternative. LAHD's certification of 20 the EIS/EIR, Notice of Completion, Findings of Fact, and Statement of Overriding 21 Considerations (if necessary) would document their decision as to the adequacy of the 22 EIS/EIR and inform subsequent decisions by LAHD whether to approve and construct 23 the proposed Project or alternative.
- 24Other agencies (federal, state, regional, and local) that have jurisdiction over some part of25the proposed Project or a resource area affected by the proposed Project are expected to26use this EIS/EIR as part of their approval or permit process as set forth in Table 1-3.
- Specific approvals that could be required for this proposed Project include, but are not
  limited to: DA Permit (pursuant to Section 10 of the RHA and potentially Section 103 of
  the MPRSA), building and safety permits, water quality permits (CWA Section 401
  Water Quality Certification/Waste Discharge Requirements pursuant to the PorterCologne Water Quality Control Act, CWA Section 402 NPDES permits), and
  construction contracts by LAHD and Los Angeles City Council.
- 33Actions that could be undertaken by LAHD following preparation of the Final EIS/EIR34include: certification of the EIS/EIR, approval of the proposed Project, completion of35final design, issuance of a Coastal Development Permit, approval of engineering permits,36obtaining other agency permits and approvals (e.g., dredge and fill, grading, construction,37occupancy, and fire safety), and approval of construction contracts.

## **38** 1.5.3 **Draft EIS/EIR Organization**

39The Draft EIS/EIR is based on the Initial Study Checklist (Appendix A of this Draft40EIS/EIR) and scoping comments received. Table 1-5 contains a list of sections required41under NEPA and CEQA and references the specific chapter in this document where the42specific information is located.

Draft EIS/EIR Section	Description
Executive Summary	Summarizes the proposed Project and alternatives, potential significant impacts and mitigation measures, the environmentally preferred alternative (in accordance with NEPA) and the environmentally superior alternative (in accordance with CEQA), public comments and concerns, and unresolved issues and areas of controversy.
Chapter 1, Introduction	Provides a brief summary of the key proposed Project features and elements, an overview of the goods movement chain, a general description of container terminal operations, and a summary of growth projection planning for container throughput in the San Pedro Bay Port Complex. Describes the intended uses of the document and authorizing actions, the purpose of NEPA and CEQA, the proposed Project's relationship to existing plans and policies, the scope and content of the document, and the organization of the document.
Chapter 2, Project Description	Describes the proposed Project, the purpose and need and the objectives of the proposed Project, alternatives initially considered but not carried forward for detailed review, and alternatives evaluated in the document at a detailed level.
Chapter 3, Environmental Analysis	Describes the existing conditions for each environmental resource area, criteria for determining the level of significance of an impact, impact assessment methodology, impacts that would result from the proposed Project and each proposed Project alternative, mitigation measures that would eliminate or reduce significant impacts, and the mitigation monitoring program.
Chapter 4, Cumulative Analysis	Provides a summary of significant cumulative impacts and whether the proposed Project or any of the alternatives would cause related impacts that would result in either a direct cumulatively significant impact or a cumulatively considerable contribution to an existing cumulative significant impact.
Chapter 5, Environmental Justice	Addresses the possible effects of the proposed Project and each proposed Project alternative on minority and/or low-income populations adjacent to the Project site.
Chapter 6, Comparison of Alternatives	Compares the significant environmental impacts of the proposed Project and proposed Project alternatives and identifies the Environmentally Preferred and Superior Alternatives.
Chapter 7, Socioeconomics	Identifies the socioeconomic impacts of the proposed Project as required by NEPA and, under CEQA, to the extent socioeconomic impacts could result in indirect effects on the physical environment.
Chapter 8, Growth- Inducing Impacts	Discusses the extent to which the proposed Project would result in growth- inducing impacts.
Chapter 9, Significant Irreversible Changes	Describes the significant irreversible changes to the environment associated with the proposed Project.
Chapter 10, References	Identifies the materials and documents consulted in preparing this Draft EIS/EIR.
Chapter 11, List of Preparers and	Lists the individuals involved in preparing this Draft EIS/EIR.

 Table 1-5: Organization and Contents of the Draft EIS/EIR

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Draft EIS/EIR Section	Description
Contributors	
Chapter 12, Acronyms and Abbreviations	Provides the full names for acronyms and abbreviations used throughout this document.
Appendices	Present additional background information and technical detail for several of the resource areas.

 Table 1-5: Organization and Contents of the Draft EIS/EIR

# 11.6Key Principles Guiding Preparation of2this Draft EIS/EIR

## 3 1.6.1 CEQA/NEPA Terminology

Both CEQA and NEPA require preparation of an environmental analysis to evaluate the potential environmental effects and effects to the human environment of proposed actions (and alternatives to those actions) that are subject to governmental approvals. However, there are several differences between the two in terminology, procedures, environmental document content, and substantive mandates to protect the environment. For this EIR/EIS, the more rigorous of the two laws was applied in cases in which NEPA and CEQA differ.

11 Many concepts are common to NEPA and CEQA, including their intent and the review 12 process that they dictate. Importantly, both statutes encourage a joint Federal and state 13 review where a project requires both Federal and state approvals. Both processes require 14 an initial review resulting in a notice to the public, scoping, development of alternatives, 15 development of an environmental document analyzing the alternatives, and consideration of public and agency input. These steps are followed by the preparation of a final 16 environmental document and agency decisions (Executive Office of the President of the 17 U.S. and State of California, Governor's Office of Planning and Research, 2013). The 18 19 laws sometimes use differing terminology for common concepts, as illustrated in Table 1-20 6, application of similar concepts may not be exactly analogous under NEPA and CEQA.

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CEQA Term	NEPA Term
Environmental Impact Report	Environmental Impact Statement
Notice of Preparation	Notice of Intent
Notice of Completion/Notice of Availability	USEPA Filing/Federal Register Notice and Agency/ Public Review (also known as a Notice of Availability)
Notice of Determination/Findings/Statement of Overriding Considerations	Record of Decision
Responsible Agency	Cooperating Agency
Project Objectives	Purpose and Need; Objectives and Constraints
Proposed Project and Alternatives	Proposed Action and Alternatives
No Project Alternative	No Action Alternative
Environmental Impacts	Environmental Consequences
Environmental Setting	Affected Environment
Threshold of Significance/Significant Impacts	Although none are specified in NEPA, CEQ regulations require an EIS to identify the direct and indirect effects "and their significance" (40 CFR 1502.16)
Cumulative Impacts	Cumulative Effects

#### Table 1-6: Correlated CEQA and NEPA Terminology

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## 1.6.2 Emphasis on Significant Environmental Effects

This Draft EIS/EIR focuses on the reasonably foreseeable significant environmental effects of the proposed Project and alternatives, and their relevance to the decision-making process. The following sections describe the general framework for analysis under NEPA and CEQA. These summaries are not meant to capture the legal nuances that have developed through the passage and amendment of various statutes and regulations, and from corresponding judicial decisions; rather, the summaries are meant to communicate a general understanding of these two acts.

- 11NEPA requires the lead federal agency to rely on a "scientific and analytical basis for the12comparison of alternatives" (40 CFR 1502.16) in making its decisions. Commonly, when13preparing a joint document, the lead federal agency will use the CEQA significance14thresholds (if available) as the standard or basis for determining a project's impacts in15terms of context and intensity, unless otherwise noted (certain instances are noted in this16document).
- 17 "Environmental impacts," as defined by CEQA, include physical effects on the
  18 environment. In this document, the term is used synonymously with the term
  19 "environmental effects" under NEPA. The State CEQA Guidelines (Section 15360)
  20 define the environment as follows:
- 21The physical conditions which exist within the area which will be affected22by a proposed project, including land, air, water, minerals, flora, fauna,23ambient noise, and objects of historic or aesthetic significance.

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- This definition does not include strictly economic impacts (e.g., changes in property values) or social impacts (e.g., a particular group of persons moving into an area). The State CEQA Guidelines (Section 15131[a]) state that "economic or social effects of a project shall not be treated as significant effects on the environment." However, economic or social effects are relevant to physical effects in two situations. In the first, according to Section 15131(a) of the State CEQA Guidelines: "An EIR may trace a chain of cause and effect from a proposed decision on a project through anticipated economic or social changes...to physical changes caused in turn by the economic or social changes." In other words, if an economic or social impact leads to a physical impact, this ultimate physical impact would be evaluated in the EIR. In the second instance, according to Section 15131(b) of the State CEQA Guidelines: "Economic or social effects of a project may be used to determine the significance of physical changes caused by the project."
- 14As with economic or social impacts, psychological impacts are outside the definition of15the term "environmental." While not specifically discussed in the State CEQA16Guidelines, the exclusion of psychological impacts was specifically affirmed in the 199917court decision National Parks and Conservation Association v. County of Riverside 7118Cal. App. 4<sup>th</sup> 1341 and 1364 (1999).
- 19In view of these legal precedents, LAHD is not required to treat economic, social, or20psychological impacts as significant environmental impacts absent a related physical21effect on the environment. Therefore, such impacts are discussed only to the extent22necessary to determine the significance of the physical impacts of the proposed Project23and alternatives. Additionally, this Draft EIS/EIR addresses Environmental Justice24(Chapter 5) and Socioeconomics and Environmental Quality (Chapter 7).

## 25 1.6.3 Forecasting

26In this Draft EIS/EIR, USACE and LAHD and its consultants have made their best27efforts to predict and evaluate the reasonable, foreseeable, direct, indirect, and cumulative28environmental impacts of the proposed Project and alternatives. NEPA and CEQA do29not require USACE and LAHD to engage in speculation about impacts that are not30reasonably foreseeable (State CEQA Guideline Sections 15144 and 15145). CEQA does31not require a worst-case analysis. Similarly, NEPA does not require a worst-case32analysis when confronted with incomplete or unavailable information (40 CFR 1502.22).

## 1.6.4 Reliance on Environmental Thresholds and Substantial Evidence

35 The identification of impacts as "significant" or "less than significant" is one of the 36 important functions of an EIS/EIR. While impacts determined to be "less than 37 significant" need only be acknowledged as such, an EIS/EIR must identify feasible 38 mitigation measures for any impact identified as "significant." In preparing this 39 document, LAHD and USACE has based its conclusions about the significance of 40 environmental impacts on identifiable thresholds and has supported these conclusions with substantial scientific evidence and publicly available information. USACE has 41 42 adopted the City of Los Angeles CEOA Thresholds to meet its NEPA responsibilities for this Draft EIS/EIR, unless otherwise noted in particular sections of this document for the 43 44 NEPA analysis.

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The criteria for determining the significance of environmental impacts in this analysis are described in each resource section in Chapter 3, Environmental Analysis. The "threshold of significance" under CEQA for a given environmental effect is the level at which LAHD finds a potential effect of the proposed Project or alternative to be significant. "Threshold of significance" can be defined as a "quantitative or qualitative standard or set of criteria, pursuant to which significance of a given environmental effect may be determined" (State CEQA Guidelines, Section 15064.7(a)). Under NEPA, the USACE evaluates and determines the significance of the incremental impacts of the Project compared to the NEPA baseline (see Section 2.7.2 in Chapter 2, Project Description, for further details).

## 11 1.6.5 **Disagreement Among Experts**

- 12During preparation of the Draft EIS/EIR, it is possible that evidence that might raise13disagreements will be presented during the public review of the Draft EIS/EIR. Such14disagreements will be noted and will be considered by the decision-makers during the15public hearing process. However, to be adequate under NEPA and CEQA, the Draft16EIS/EIR need not resolve all such disagreements.
- 17 In accordance with the provisions of the State CEQA Guidelines, conflict of evidence and 18 expert opinions on an issue concerning the environmental impacts of the proposed Project 19 - when LAHD is aware of these controversies - has been identified in this Draft EIS/EIR. 20 Further, consistent with NEPA case law, when specialists express conflicting views, an 21 agency must have discretion to rely on the reasonable opinions of its own qualified 22 experts even if, as an original matter, a court might find contrary views more persuasive. 23 Therefore, the Draft EIS/EIR has summarized the conflicting opinions where known, and 24 has included sufficient information to allow the public and decision-makers to take 25 intelligent account of the environmental consequences of their actions.
- 26 In rendering a decision on a project where there is a disagreement exists among experts, 27 the decision-makers are not obligated to select the most conservative, environmentally 28 protective or liberal viewpoint. Decision-makers might give more weight to the views of 29 one expert than to those of another and need not resolve a dispute among experts. In their 30 proceedings, the decision-makers must consider the comments received and address any 31 objections, but need not follow said comments or objections so long as the decision-32 makers state the basis for their decision and the decision is supported by substantial 33 evidence.
- 34 1.6.6 **Duty to Mitigate**
- 35 Under NEPA, 40 CFR 1505.3 requires that:
  - ...mitigation and other conditions established in the environmental impact statement or during its review and committed as part of the decision shall be implemented by the lead agency or other appropriate consenting agency.
- Although USACE could identify and analyze impacts outside its jurisdiction, USACE
  limits the placement of special conditions in DA permits (requirements for mitigation) to
  areas within USACE jurisdiction (i.e., areas directly subject to its permitting authority.
  USACE has no legal authority to constrain construction or operations outside its

1 jurisdiction where, absent a DA permit for construction in navigable waters or discharges 2 into waters of the U.S., the federal government has no statutory authority. Therefore, 3 while upland indirect and/or cumulative effects within the USACE scope of analysis (i.e., 4 traceable to the issuance of a permit) may exist and are disclosed in this environmental 5 document, USACE would not place special conditions on those upland impacts because 6 activities in the uplands are not within USACE jurisdiction or federal control and 7 responsibility, and most upland impacts would occur without a DA permit. However, it 8 should be noted that all feasible mitigation would be applied to address upland and 9 aquatic impacts under CEQA, and such mitigation would be enforced by the LAHD. 10 According to Section 15126.4(a) of the State CEQA Guidelines, each significant impact 11 identified in an EIR must include a discussion of feasible mitigation measures that would 12 avoid or substantially reduce the significant environmental effect. To reduce significant 13 effects, mitigation measures must avoid, minimize, rectify, reduce, eliminate, or 14 compensate for a given impact of the proposed Project. Mitigation measures must satisfy certain requirements to be considered adequate. Mitigation should be specific and 15 16 enforceable, define feasible actions that would demonstrably improve significant adverse 17 environmental conditions, and allow monitoring of their implementation. Mitigation 18 measures that merely require further studies or consultation with regulatory agencies and 19 are not tied to a specific action that would directly reduce impacts, or that defer 20 mitigation until some future time, are not adequate. 21 Effective mitigation measures clearly explain objectives and indicate how a given 22 measure should be implemented, who is responsible for its implementation, and where 23 and when the mitigation would occur. Mitigation measures must be enforceable, meaning that the lead agency must ensure that the measures would be imposed through 24 25 appropriate permit conditions, agreements, or other legally binding instruments. 26 Section 15041 of the State CEQA Guidelines grants public agencies the authority to 27 require feasible changes (mitigation) that would substantially lessen or avoid a significant 28 effect on the environment associated with activities involved in a project. Public 29 agencies, however, do not have unlimited authority to impose mitigation. A public 30 agency might exercise only those express or implied powers provided by law, aside from 31 those provided by CEQA. However, where another law grants discretionary powers to a 32 public agency, CEQA authorizes use of discretionary powers (State CEQA Guidelines 33 Section 15040). In addition to limitations imposed by CEQA, the U.S. Constitution limits the authority of 34 35 regulatory agencies. The Constitution limits the authority of a public agency to impose conditions to those situations where a clear and direct connection ("nexus," in legal terms) 36 37 exists between a project impact and the mitigation measure. Finally, a proportional balance 38 must exist between the impact caused by the project and the mitigation measure imposed 39 upon the project applicant. A project applicant cannot be forced to pay more than its fair 40 share of the mitigation, which should be roughly proportional to the impact(s) caused by 41 the project. (See Nollan v. California Coastal Commission (1987) 483 U.S. 825; Dolan v. 42 City of Tigard (1994) 512 U.S. 374; Ehrlich v. City of Culver City (1996) 12 Cal. 4th 854).

## **1.6.7 Requirements to Evaluate Alternatives**

44 According to NEPA and CEQA regulations, the alternatives section of an EIS/EIR is 45 required to:

1 2 3	<ul> <li>rigorously explore and objectively evaluate a reasonable range of feasible alternatives that would avoid or substantially reduce the significant adverse impacts of the project;</li> </ul>
4 5	<ul> <li>include reasonable alternatives not within the jurisdiction or congressional mandate of the lead agency, if applicable;</li> </ul>
6	<ul> <li>include No Federal Action (NEPA) and No Project (CEQA) Alternatives;</li> </ul>
7 8	<ul> <li>develop substantial treatment of each alternative, including the proposed action, so that reviewers could evaluate their comparative merits;</li> </ul>
9	<ul> <li>identify the Preferred Alternative of the lead agency;</li> </ul>
10 11	<ul> <li>include feasible mitigation measures (when not already part of the proposed action or alternatives); and</li> </ul>
12 13	<ul> <li>present the alternatives that were eliminated from detailed study and briefly discuss the reason(s) for elimination.</li> </ul>
14 15 16 17 18 19	NEPA (40 CFR 1502.14(a)) and State CEQA Guidelines (Section 15126.6) require that an EIS and an EIR, respectively, describe a reasonable range of feasible alternatives to a proposed project, or to the location of a proposed project that could feasibly attain most of the basic objectives of the proposed project but would avoid or substantially lessen any significant environmental impacts. According to State CEQA Guidelines, the EIR should compare merits of the alternatives and determine an environmentally superior alternative.
20 21 22	Section 2.9 in Chapter 2, Project Description, of this Draft EIS/EIR sets forth potential alternatives to the proposed Project and Chapter 6, Comparison of Alternatives, evaluates their comparative merits, as required by the State CEQA Guidelines (Section 15126.6).
23	Alternatives for an EIS and EIR usually take the form of No Project, No Federal Action
24	(no federal permit; as noted, the No Federal Action Alternative is equivalent to the NEPA
25	baseline in this case), reduced project size, different project design, or suitable alternative
26	project sites (40 CFR 1502.14(c)). The range of alternatives discussed in an EIS need not
27	be beyond a reasonable range (40 CFR 1502.14(a)), and an EIR is governed by the "rule
28	of reason" that requires the identification of only those alternatives necessary to permit a
29	reasoned choice between the alternatives and a proposed project. An EIS and an EIR
30	need not consider an alternative that would be infeasible. State CEQA Guidelines
31	Section 15126.6 explains that the evaluation of project alternative feasibility can consider
32	"site suitability, economic viability, availability of infrastructure, general plan
33	consistency, other plans or regulatory limitations, jurisdictional boundaries, and whether
34	the proponent can reasonably acquire, control or otherwise have access to the alternative
35	site." The EIS/EIR is not required to evaluate an alternative whose effects could not be
36	reasonably identified, or whose implementation is remote, speculative, or would not
37	achieve the basic purposes of the proposed Project. With respect to NEPA, only
38	reasonable alternatives need be considered in detail, as specified in 40 CFR 1502.14(a).
39	Reasonable alternatives must be those that are feasible and such feasibility must focus on
40	the accomplishment of the underlying purpose and need that would be satisfied by the
41	proposed federal action (DA permit issuance).

## **1.6.8 Port of Los Angeles Plans and Programs**

43 44 LAHD has implemented a variety of plans and programs to reduce the environmental effects associated with operations at the Port. These programs include, but are not

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limited to the following: the San Pedro Bay Ports Clean Air Action Plan (CAAP), Water Resources Action Plan (WRAP), and Sustainable Construction Guidelines. All of these efforts ultimately reduce adverse environmental effects. Furthermore, LAHD is aggressively studying zero-emission technology with the intent of integrating zero emission equipment into terminal operations.

### 6 **1.6.8.1 Clean Air Action Plan**

- 7 The Ports of Los Angeles and Long Beach, with the participation and cooperation of the 8 staff of the USEPA, CARB, and SCAQMD, prepared the San Pedro Bay Ports CAAP, a 9 planning and policy document that sets goals and implementation strategies to reduce air 10 emissions and health risks associated with Port operations while allowing Port development to continue. In addition, the CAAP sought the reduction of criteria 11 12 pollutant emissions to the levels that assure Port-related sources decrease their "fair 13 share" of regional emissions to enable the South Coast Air Basin to attain state and 14 federal ambient air quality standards. Each individual CAAP measure is a proposed 15 strategy for achieving these emissions reductions goals. The Ports approved the first 16 CAAP in November 2006.
- 17 The CAAP focuses primarily on reducing diesel particulate matter (DPM), along with nitrogen oxides  $(NO_x)$  and sulfur oxides  $(SO_x)$ . This strategy reduces emissions and 18 19 health risk and thereby allows for future Port growth while progressively controlling the 20 impacts associated with such growth. The CAAP includes emission control measures as 21 proposed strategies that are designed to further these goals expressed as Source-Specific 22 Performance Standards which may be implemented through the environmental review 23 process, or could be included in new leases or Port-wide tariffs, Memoranda of 24 Understanding (MOU), voluntary action, grants, or incentive programs.
- 25The CAAP Update, adopted in November 2010, includes updated and new emission26control measures as proposed strategies that support the goals expressed as the27Source-Specific Performance Standards and the Project-Specific Standards. In addition,28the CAAP Update includes the recently developed San Pedro Bay Standards, which29establish emission and health risk reduction goals to assist the Ports in their planning for30adopting and implementing strategies to significantly reduce the effects of cumulative31Port-related operations.
  - The goals set forth as the San Pedro Bay Standards are the most significant addition to the CAAP and include both a Bay-wide health risk reduction standard and a Bay-wide mass emission reduction standard. Ongoing Port-wide CAAP progress and effectiveness will be measured against these Bay-wide Standards, which consist of the following reductions as compared to 2005 emissions levels:
- Health Risk Reduction Standard: 85 percent reduction in DPM by 2020
  Emission Reduction Standards:

  By 2014, reduce emissions by 72 percent for DPM, 22 percent for NO<sub>x</sub>, and 93 percent for SO<sub>x</sub>
  By 2023, reduce emissions by 77 percent for DPM, 59 percent for NO<sub>x</sub>, and 92 percent for SO<sub>x</sub>

1 The Project-Specific Standard remains as adopted in the original CAAP in 2006, that new 2 projects meet the 10 in 1,000,000 excess residential cancer risk threshold, as determined 3 by health risk assessments conducted subject to CEQA statutes, regulations, and 4 guidelines, and implemented through required CEOA mitigations and/or lease 5 negotiations. Although each Port has adopted the Project-Specific Standard as a policy, 6 the Board of Harbor Commissioners retain the discretion to consider and approve projects 7 that exceed this threshold if the Board deems it necessary by adoption of a statement of 8 overriding considerations at the time of project approval. 9 This Draft EIS/EIR analysis assumes compliance with the 2010 CAAP Update. Proposed 10 Project-specific mitigation measures applied to reduce air emissions and public health impacts are consistent with, and in some cases exceed, the emission-reduction strategies 11 12 of the CAAP. 13 In 2016, the Ports began the process of updating the CAAP to produce the third version. 14 The scope and framework of this CAAP 3.0 Update will continue to look at the five major 15 mobile sources of air pollution in and around the ports, while placing new Bay-wide Standards for the future. In addition, the CAAP will be expanded to address the following: 16 17 zero-emissions technologies 18 greenhouse gas emissions reductions 19 energy strategies 20 supply chain optimization 21 **Zero Emission Equipment** 22 While the CAAP has been very successful at encouraging substantial emission 23 reductions, further reductions are needed as port throughput continues to increase in the 24 coming years. Furthermore, important greenhouse gas reduction deadlines approaching 25 in the next few years, the LAHD has identified zero emission equipment as a critical element to be integrated into marine related goods movement in the future. 26 27 In 2011, the LAHD and the Port of Long Beach released a Zero Emission Technologies 28 Roadmap to establish an initial plan for identifying technologies to pursue 29 demonstrations to advance zero emission technology development. In July 2015, the 30 LAHD released a draft Zero Emission white paper. 31 The LAHD has provided over \$7 million in funding for projects aimed at developing zero 32 emission technology for short-haul drayage trucks and on-terminal yard tractors. Initial 33 zero emission vehicle testing has shown mixed results, but more recent progress has been 34 made that reinforces the LAHD's belief that zero emission container movement 35 technologies show great promise for helping to reduce criteria pollutant and greenhouse 36 gas emissions in the future. 37 The LAHD, working collaboratively with the Port of Long Beach and several 38 stakeholders and partnerships, is committed to expanded development and testing of zero 39 emission technologies, identification of new strategic funding opportunities to support these expanded activities, and new planning for long-term infrastructure development to 40 41 sustain developed programs, all while ensuring competitiveness among the maritime 42 goods movement businesses.

### 1 **1.6.8.2 Water Resources Action Plan**

2 Both LAHD and the Port of Long Beach face ongoing challenges from contaminants that 3 remain in Port sediments, flow into the harbor from Port land, and flow from upstream 4 sources in the watershed, well beyond the Ports' boundaries. Therefore, the Ports 5 undertook a collaborative, scientific effort to address existing and potential sources of 6 water and sediment pollution. Building on the collaborative model developed by the 7 CAAP, under the WRAP the Ports will continue to work together and with other 8 stakeholders to achieve further progress in water and sediment quality improvement. The 9 WRAP establishes a program of water quality improvement measures necessary to 10 achieve the goals and targets that will be established by the LARWQCB in upcoming 11 regulations. The WRAP targets the four basic types of potential sources of pollutants to 12 harbor waters (land use discharges, on-water discharges, sediments, and watershed 13 discharges) and includes control measures zeroing in on known and potential sources of 14 water and sediment contamination in the harbor area (POLA/POLB, 2009).

#### 15 **1.6.8.3** Port of Los Angeles Sustainable Construction Guidelines

- 16 LAHD adopted the Port of Los Angeles Sustainable Construction Guidelines in February 17 2008 and revised them in November of 2009. The guidelines are used to establish air 18 emission criteria for inclusion in bid specifications for construction. The guidelines 19 reinforce and require sustainability measures during performance of the contracts, 20 balancing the need to protect the environment, be socially responsible, and provide for 21 the economic development of the Port. Future resolutions are anticipated to expand the 22 guidelines to cover other aspects of construction, as well as planning and design. These guidelines support the Port Sustainability Program. 23
- 24The intent of the guidelines is to facilitate the integration of sustainable concepts and25practices into all capital projects at the Port and to phase in the implementation of these26procedures in a practical, yet aggressive, manner (LAHD, 2009). These guidelines are27made a part of all construction specifications advertised for bids.
  - Significant features of the guidelines include, but are not limited to:
    - all ships and barges used primarily to deliver construction-related materials for LAHD construction contracts shall comply with the VSRP and use low-sulfur fuel within 40 nautical miles of Point Fermin;
      - harbor craft shall meet USEPA Tier-3 engine emission standards;
    - all dredging equipment shall be electric;
    - on-road heavy-duty trucks shall comply with USEPA 2007 on-road emission standards for inhalable particulate matter (PM10) and NOX;
    - construction equipment (excluding on-road trucks, derrick barges, and harbor craft) shall meet Tier 3 emission off-road standards; the requirement will be raised to Tier 4 by January 1, 2015; in addition, construction equipment shall be retrofitted with a CARB-certified Level 3 diesel emissions control device;
    - equipment will comply with SCAQMD Rule 403 regarding fugitive dust, and other fugitive dust control measures; and

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 additional Best Management Practices, based largely on Best Available Control Technology (BACT), will be required on construction equipment (including onroad trucks) to reduce air emissions further.

#### 4 **1.6.8.4** Other Environmental Programs

#### Air Quality

Alternative Maritime Power. AMP reduces emissions from container vessels docked at the Port. Normally, ships shut off their propulsion engines when at berth, but use auxiliary diesel generators to power electrical needs such as lights, pumps, and refrigerator units. These generators emit an array of pollutants, primarily NO<sub>x</sub>, SO<sub>x</sub>, and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>). The Port is in the process of providing shore-based electricity as an alternative to running the generators (a process also referred to as cold ironing). The AMP program allows ships to "plug-in" to shoreside electrical power while at dock instead of using on-board generators, a practice that will dramatically reduce emissions. Before being used at the Port, AMP was used commercially only by the cruise ship industry in Juneau, Alaska. Now, AMP facilities have been installed and are currently in use at China Shipping Terminal, Yusen Terminal, Everport Container Terminal (the Project site), TraPac Terminal, and the Cruise Ship Terminal among others. AMP has been incorporated into the CAAP as a project-specific measure.

- 19Off-Peak Program. Extending cargo terminal operations by five night and weekend20work shifts, the Off-Peak Program, managed by PierPASS (an organization created by21marine terminal operators) has been successful in increasing cargo movement, reducing22the waiting time for trucks inside Port terminals, and reducing truck traffic during peak23daytime commuting periods.
- 24 **On-Dock Rail and the Alameda Corridor.** Use of rail for long-haul cargo is 25 acknowledged as an air quality benefit. Four existing on-dock railyards at the Port, 26 including the existing on-dock facility on the proposed project site (another two 27 on-dock yards are proposed - refer to Figure 1-7), significantly reduce the number of 28 short-distance truck trips (the trips that normally would convey containers to and from 29 off-site railyards). Combined, these intermodal facilities eliminate an estimated 30 1,400,000 truck trips per year and the emissions and traffic congestion that go along with 31 them. A partner in the Alameda Corridor project, the Port is using the corridor to 32 transport cargo to downtown railyards at 10 to 15 miles per hour faster. Use of the 33 Alameda Corridor allows cargo to travel the 20 miles to downtown Los Angeles at a 34 faster pace and promotes the use of rail versus truck. In addition, the Alameda Corridor 35 eliminates 200 rail/street crossings and emissions produced by cars with engines idling while the trains pass. In 2004, the Port of Los Angeles Board of Harbor Commissioners 36 adopted an Intermodal Rail Policy to guide the development of additional rail facilities, to 37 38 reduce the number and length of truck trips in the Port area, and to achieve reductions in 39 rail-related air emissions (LAHD, 2004). The Port Resolution:
  - Provides for on-dock and comparable near-dock intermodal facilities for shippers, carriers, terminal operators, and Class I Railroads;
  - Ensures all Port customers are utilizing on-dock intermodal rail to the fullest extent feasibly possible;
  - Ensures sufficient rail capacity is maintained to increase rail usage, meet future demand, and adapt to evolving intermodal rail operations;

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- Provides the opportunity to direct local movements of cargo from truck to rail;
- Encourages Port customers to pool container cargo and share on-dock and-near dock rail facilities to the fullest extent feasible.

**Tugboat Retrofit Project**. The engines of several tugboats in the Port were replaced with ultra-low-emission diesel engines. This was the first time such technology had been applied to such a large engine. Emissions testing showed a reduction of more than 80 tons of NO<sub>X</sub> per year, nearly three times better than initial estimates. Under the Carl Moyer Program,<sup>10</sup> the majority of tugboats operating in the Port Complex have been retrofitted.

- 10Electric and Alternative Fuel Vehicles. LAHD has converted more than 35 percent of11its fleet to electric or alternative-fuel vehicles. These include heavy-duty vehicles and12passenger vehicles. LAHD proactively has embarked on the use of emulsified fuels that13are verified by CARB to reduce diesel particulates by more than 60 percent compared to14diesel-powered equipment.
- Electrified Terminal Operating Equipment. The approximately 86 ship-loading
   cranes currently in use at the Port operate under electric power. In addition, numerous
   other terminal operations equipment has been fitted with electric motors.
- Yard Equipment Retrofit Program. Over the past five years, diesel oxidation catalysts
   have been applied to nearly all yard tractors at the Port. This program has been carried
   out with Port funds and funding from the Carl Moyer Program.
- Vessel Speed Reduction Program. Under this voluntary program, oceangoing vessels
   slow to 12 knots when within 20 and 40 nautical miles of the entrance to Los Angeles
   Harbor, thus reducing emissions from main propulsion engines. As of 2014,
   approximately 100 percent of ships comply with the voluntary program within 20
   nautical miles and 95 percent comply within 40 nautical miles.
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#### Everport Enhanced Cargo Demonstration Project(s)

- ETS (through the Los Angeles Harbor Department) was awarded a grant from the
  California Energy Commission in late 2016 to commission a demonstration project to test
  20 near-zero yard tractors (i.e., liquefied natural gas) as well as 5 battery electric yard
  tractors at the Everport Container Terminal. This demonstration project will begin in
  Summer 2017 and last for 12 months.
- 32 In addition, the LAHD is also in the process of submitting an additional grant application 33 to CEC for two battery electric top picks and three additional battery electric yard tractors 34 to undergo a demonstration project at the Everport Container Terminal as well. If this grant is awarded, the demonstration project would last approximately 15 months to 35 36 ensure the successful implementation of the equipment. This demonstration project will 37 be followed and included into Lease Measure (LM) AQ-1 regarding the periodic review 38 of new technology (refer to Section 3.2.4.7 in Section 3.2, Air Quality and Meteorology, 39 for a description of LM AQ-1).

<sup>&</sup>lt;sup>10</sup> The Carl Moyer Program is a grant program implemented by CARB and administered by SCAQMD to fund the incremental cost of cleaner-than-required engines.

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#### Water Quality

Water Quality Monitoring. LAHD has been monitoring water quality at 31 established stations in San Pedro Bay since 1967, and the water quality today at the Port is among the best of any industrialized port in the world. Samples are tested on a monthly basis for dissolved oxygen, biological oxygen demand, and temperature. Other observations are noted, such as odor and color, as well as the presence of oil, grease, and floating solids. The overall results of this long-term monitoring initiative show the tremendous improvement in harbor water quality that has occurred over the last four decades.

9 Inner Cabrillo Beach Water Quality Improvements. The Port is one of the few 10 industrial ports in the world to have a swimming beach. Inner Cabrillo Beach provides 11 quiet water for families with small children. However, in recent years, upland runoff has resulted in high levels of bacteria in shoreline waters. LAHD has invested hundreds of 12 13 thousands of dollars in water circulation/quality models and studies to investigate the 14 problem. Recently, LAHD repaired storm drains and sewer lines, replaced poor quality beach sand with clean sand, removed the groin at the north end of the beach, and installed 15 16 a bird exclusion device, all as part of its commitment to make sure that Inner Cabrillo 17 Beach continues to be an important regional recreational asset, but more importantly improve water quality. In 2004, the LARWQCB adopted an Amendment to the Water 18 19 Quality Control Plan to incorporate the Los Angeles Harbor Bacteria Total Maximum 20 Daily Load (TMDL). The TMDL was developed to address impairments of water quality 21 standards by coliform and beach closures at Inner Cabrillo Beach and the Main Ship 22 Channel at the Port. A TMDL specifies the maximum amount of a pollutant that a water 23 body can receive and still meet water quality standards, and allocates the pollutant 24 loadings to point and nonpoint sources.

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#### Habitat Management and Endangered Species

- 26 California Least Tern Site Management. The federal- and state-endangered California 27 least tern (a species of small sea bird) nests from April through August on Pier 400 in the 28 Port adjacent to the Pier 400 container terminal. Through an interagency nesting site 29 agreement, LAHD maintains, monitors, and protects the approximately 15-acre nesting 30 site on Pier 400.
- 31 Interagency Biomitigation Team. As part of the development of mitigation for the 32 Deep-Draft Navigation Improvements, including the Pier 400 Landfill, the Port Complex 33 helped establish an interagency mitigation team to evaluate and provide solutions for 34 impacts of landfill and terminal construction on marine resources in the Ports. The primary agencies involved include USACE, USFWS, NMFS, and CDFW. A number of 35 36 mitigation agreements have been established through this coordination, and the team 37 continues to meet as necessary to address environmental issues associated with Port 38 development and operations.

#### 39 **General Port Environmental Programs**

Green Building Policy. In August 2007, LAHD adopted a Green Building Policy, which 40 41 outlines the environmental goals for newly constructed and existing buildings, dictates 42 the incorporation of solar power and technologies that are efficient with respect to the use of energy and water, dedicates staffing for the advancement and refinement of sustainable 43 44 building practices, and maintains communication with other City of Los Angeles 45 departments for the benefit of the community. The policy incorporates sustainable

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building design and construction guidelines based on the U.S. Green Building Council – Leadership in Energy and Environmental Design Green Building Rating System (POLA, 2007).

**Recycling**. LAHD incorporates a variety of innovative environmental ideas into its construction projects. For example, when building an on-dock rail facility, LAHD saved nearly \$1,000,000 and thousands of cubic yards of landfill space by recycling existing asphalt pavement instead of purchasing new pavement. LAHD also maintains an annual contract to crush and recycle broken concrete and asphalt. In addition, LAHD successfully has used recycled plastic products, such as fender piles and protective front-row piles, in many wharf construction projects.

## 11 **1.7** Availability of the Draft EIS/EIR

- 12The Draft EIS/EIR for the proposed Project and alternatives is being distributed directly13to agencies, organizations, and interested groups and persons for comment during the14formal review period in accordance with Section 40 CFR 1506.10 of the CEQ NEPA15Regulations and Section 15087 of the State CEQA Guidelines. A 45-day comment16period has been established, which begins on April 20, 2017, and ends on June 5, 2017,17during which the Draft EIS/EIR is available for general public review at the following18locations:
- 19LAHD20Environmental Management Division21222 W. 6th Street, Suite 108022San Pedro, California 90731
- 23Los Angeles Public Library24Central Branch25630 West 5th Street
- 26Los Angeles, California 90071
- 27 Los Angeles Public Library
  28 San Pedro Branch
  29 921 South Gaffey Street
- 30 San Pedro, California 90731
- 31 Los Angeles Public Library
  32 Wilmington Branch
  33 1300 North Avalon Boulevard
  34 Wilmington, California 90744
- 35In addition to printed copies of the Draft EIS/EIR, electronic versions are available. Due36to the size of the document, the electronic versions have been prepared as a series of PDF37files to facilitate downloading and printing. Members of the public can request a CD38containing this document. The Draft EIS/EIR is available in its entirety on the Port of39Los Angeles website at:
  - http://www.portoflosangeles.org/environment/public\_notices.asp.

<ul> <li>postmarked by June 5, 2017. Please address comments to both:</li> <li>U.S. Army Corps of Engineers</li> <li>Los Angeles District, Regulatory Division</li> <li>Ventura Field Office</li> <li>c/o Theresa Stevens, Ph.D.</li> <li>7 2151 Alessandro Drive, Suite 110</li> <li>Ventura, CA 93001</li> <li>Christopher Cannon, Director</li> <li>Environmental Management Division</li> <li>Los Angeles Harbor Department</li> <li>Los Angeles Harbor Department</li> </ul>
<ul> <li>Los Angeles District, Regulatory Division</li> <li>Ventura Field Office</li> <li>c/o Theresa Stevens, Ph.D.</li> <li>2151 Alessandro Drive, Suite 110</li> <li>Ventura, CA 93001</li> <li>Christopher Cannon, Director</li> <li>Environmental Management Division</li> <li>Los Angeles Harbor Department</li> </ul>
5Ventura Field Office6c/o Theresa Stevens, Ph.D.72151 Alessandro Drive, Suite 1108Ventura, CA 9300191010Christopher Cannon, Director11Environmental Management Division12Los Angeles Harbor Department
6c/o Theresa Stevens, Ph.D.72151 Alessandro Drive, Suite 1108Ventura, CA 930019010Christopher Cannon, Director11Environmental Management Division12Los Angeles Harbor Department
<ul> <li>7 2151 Alessandro Drive, Suite 110</li> <li>8 Ventura, CA 93001</li> <li>9</li> <li>10 Christopher Cannon, Director</li> <li>11 Environmental Management Division</li> <li>12 Los Angeles Harbor Department</li> </ul>
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12 Los Angeles Harbor Department
10 405 G D 1 X 1 G
13 425 S. Palos Verdes Street
14 San Pedro, CA 90731
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16 Comments can also be submitted via email. Emailed comments should include the title of
17 the project in the subject line and a valid mailing address in the body of the email. Email
18 comments should be sent to both <u>Theresa.Stevens@usace.army.mil</u> and
19 <u>ceqacomments@portla.org</u> .
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