

3.13

UTILITIES AND PUBLIC SERVICES

1

2 **3.13.1 Introduction**

3 This section identifies the existing public services (fire protection, emergency
4 medical services, and police protection) and utilities (water services, wastewater,
5 storm drains, solid waste, electricity, and natural gas) within the proposed project
6 area, and addresses potential impacts on public services and public utilities that could
7 result from development of the proposed Project. This section also describes the
8 regulatory setting associated with utilities and public services and the mitigation
9 measures that would reduce impacts, if necessary.

10 **3.13.2 Environmental Setting**

11 For the proposed Project, the environmental setting is localized to the Port of Los
12 Angeles and the community of San Pedro. The public services for these areas and
13 communities are provided by the Port Police, Los Angeles Police Department, Los
14 Angeles Fire Department, and the United States Coast Guard. The public utilities for
15 these areas and communities are provided by the Bureau of Sanitation, Los Angeles
16 County Sanitation Districts and Browning Ferris Industries, Los Angeles Department
17 of Water and Power, and the Southern California Gas Company. Each public service
18 and utility has been actively growing in concert with the growth in the communities
19 and the region. For the proposed Project, each service and utility is described in
20 further detail below to understand its provisions for providing and supplying service
21 and its geographic area, as well as to discuss its individual planning efforts to
22 accommodate anticipated future growth.

3.13.2.1 Public Services

3.13.2.1.1 Police Protection

Police protection for the Port is provided by LAPD and the Port Police (Los Angeles Harbor Department Police) and other neighboring agencies including the United States Coast Guard and the Los Angeles County Sheriff's Department. The Port is located in the LAPD's Harbor Division Area, a 27.5 square-mile area including Harbor City, San Pedro, Wilmington, and Terminal Island.

LAPD

The LAPD Harbor Community station, also known as the Port Police, is located at 221 North Bayview Avenue in Wilmington (LAPD 2005). This station includes a staff of 259 officers (Lieutenant Willis, pers. comm. 2008). Figure 3.13-1 shows the location of this station.

During periods of statistically high crime activity, the number of field officers has increased. Officers employ radio-dispatched cruisers and traffic control motorcycles to patrol the proposed project vicinity. LAPD provides support to the Port Police and responds to Port incidents under the following special circumstances: 1) complex crimes including homicides and major traffic incidents 2) special investigations including narcotics, organized crime, and terrorism and 3) unusual occurrences as identified by City protocol, such as events that require special resources, expertise, or staffing beyond current competencies.

LAPD's department-wide response time is currently 7 minutes, which is considered adequate. However, the department is currently working on ways to further decrease that time. (LAPD 2007a.)

Scheduled improvements to LAPD facilities in the Port area include replacement of the Harbor Community station on the existing station site. These improvements will help to create more efficient levels of service to provide for future growth and development. The new site will consolidate all station functions including patrol, detectives, special investigations, commanding officers' offices, community relations, records, and so on. A 60-prisoner jail is under construction at the new station, with occupancy scheduled for April 2008. (LAPD 2007b.)

Port Police

The Port Police are responsible for patrol and surveillance of the Port and neighboring Port Area communities. The Port Police enforce federal, state, and local public safety statutes as well as environmental and maritime safety regulations. Their primary goal is to protect the Port against all hazards through identification and elimination to ensure the free flow and protection of commerce, and to identify, apprehend, and prosecute persons who would direct criminal activity toward LAHD

1 properties, customers, or port users. In addition to LAPD and Port Police protection,
2 each tenant occupying a berth or berths in the Port maintains its own internal security
3 staff. (LAHD 2008a.)

4 Port Police offices are located in the Harbor Administration Building at 425 South
5 Palos Verdes Street in San Pedro. Dive Unit facility boats and offices/lockers are
6 located on 954 South Seaside on Terminal Island. Marine Unit boats and a small
7 office are located at Berth 84, with additional offices in the Crowley Building nearby.
8 Sea Marshals and K-9 units operate out of the Cruise Terminal Berth 93. An
9 Interagency Task Force Unit is located on 239 Avalon in Wilmington. And finally,
10 there is a Port Police training facility located at 300 Ferry Street. (Kirwan pers.
11 comm. 2008.)

12 The Port Police do not estimate the number of employed officers necessary for the
13 amount of proposed development or anticipated population for a given area. Their
14 staff/sworn officer totals are based on current Homeland Security data and levels of
15 security at other ports of corresponding size and activity. Response times are not
16 estimated by the Port Police as a ratio of measurement and are therefore not
17 estimated for the proposed Project. Presently the Port Police are authorized for a
18 total of 223 positions in the 2007–2008 fiscal year. The number of total sworn staff
19 is 142; however, the Board of Harbor Commissioners has approved the growth of
20 sworn staff to 212. (Kirwan and Provinchain pers. comm. 2008.)

21 The Port Police maintain 24-hour land and water patrols. They also have Sea
22 Marshals and K-9 units that are dedicated to the cruise terminal when cruise ships are
23 in port. Due to constant patrol of land and water as well as the Port Police's
24 expanding and constantly updated resources the Port area is adequately served.
25 (Kirwan pers. comm. 2008.)

26 Scheduled improvements for the Port Police include construction of a Wilmington
27 Substation at 300 Water Street around Berth 195, which should be occupied as a
28 temporary substation during 2008. The Port Police are also in the process of building
29 a new station at 330 S. Centre Street (between 3rd and 5th streets). It is projected that
30 the new station will be completed in 2010. Other improvements include expanding
31 the facilities to house mobile incident command vehicles, bicycle unit equipment,
32 security officer equipment and vehicles, hazardous material response vehicles, an
33 expanded marine unit facility, a marine mammal facility, K-9 kennel and K-9
34 training centers, and a Port Police dive and in-water training center. (Kirwan pers.
35 comm. 2008.)

36 **3.13.2.1.2 Fire Protection**

37 LAFD currently provides fire protection and emergency services for the project site.
38 Fire protection capabilities are based on the distance from the emergency to the
39 nearest fire station and the number of emergency or fire-related calls at the time of
40 any simultaneous emergencies. LAFD has required maximum response times of 9
41 minutes by land and 14 minutes by water. (Roupoli pers. comm. 2008).

1 LAFD has 105 fire stations spread throughout the City. Of these, 51 are single-
2 engine houses, while the remainder are task force houses. A single-engine house
3 normally has one engine company, while a task force house has a truck company and
4 two engines. Paramedic and emergency medical technician (EMT) ambulances,
5 battalion chiefs, division chiefs, and special apparatus are also assigned to the various
6 stations. An engine company is the basic “put water on the fire” unit and is typically
7 staffed by a captain, an engineer, and two firefighters. The engine carries up to 500
8 gallons of water and can pump up to 1,500 gallons per minute. A task force consists
9 of three pieces of apparatus: an aerial truck, an engine company, and a single pump
10 apparatus. A captain, an apparatus operator, and three firefighters work on the truck.
11 (LAFD 2004.)

12 In the project vicinity, LAFD facilities include land-based fire stations and fireboat
13 companies. In the Port area, Battalion 6 is responsible for all of San Pedro and its
14 water fronts, Terminal Island and all of the surrounding water, Wilmington, Harbor
15 City, and Harbor Gateway. All of these small cities are occupied and controlled by
16 Battalion 6. Within these geographical areas are 10 fire stations composed of fire
17 boats, hazardous material squads, paramedic and rescue vehicles, three-truck
18 companies, an urban search and rescue, and a foam tender apparatus. (Roupoli pers.
19 comm. 2007.)

20 Fire stations in the Port area include Station 36, Station 85, Station 48, Station 101,
21 Station 38, Station 112, Station 40, Station 49, Station 110, and Station 111. (See
22 Figure 3.13-1.) (City of Los Angeles 2006:K.2-6–K.2-12.)

- 23 ■ Station 36 will be located at 1005 N. Gaffey Street, San Pedro. This fire station
24 is currently under construction.
- 25 ■ Station 48, located at 1601 S. Grand Avenue, San Pedro, is a task force house
26 with a staff of 16. It maintains a truck and engine company and a hazardous
27 materials unit.
- 28 ■ Station 101, located at 1414 25th Street, San Pedro, is staffed by six firefighters
29 and two paramedics. This station has an engine company and paramedic
30 ambulance.
- 31 ■ Station 38, located at 124 E. I Street, Wilmington, is a task force station and has a
32 staff of nine. It maintains a truck and engine company and paramedic
33 ambulance.
- 34 ■ Station 85, located at W. 253rd Street, Harbor City, is a task force station and has
35 a paramedic ambulance, urban search and rescue, a medical supply trailer, and an
36 emergency lighting trailer
- 37 ■ Station 112, located at 444 S. Harbor Boulevard, Berth 86, San Pedro, has a staff
38 of 15, including an emergency medical services supervisor. It has a single engine
39 company, a paramedic rescue ambulance, and one fireboat.
- 40 ■ Station 40, located at 330 Ferry Street on Terminal Island, has four firefighters
41 and two paramedics on staff. It is equipped with a fire engine and two
42 ambulances and has a response time of 8 to 10 minutes.

- 1 ■ Station 49, located at 400 Yacht Street, Berth 194, Wilmington, has a staff of 13.
2 It is equipped with a single engine company and two boats and is Battalion 6
3 Headquarters.
- 4 ■ Station 110, located at 2945 Miner Street, San Pedro, has a staff of three and is
5 equipped with one fireboat.
- 6 ■ Station 111, located at 1444 S. Seaside Avenue on Terminal Island, has a staff of
7 three and is equipped with one fireboat.

8 The primary responding fire stations to the proposed project area would be Station
9 112 located at 444 S. Harbor Boulevard, Berth 86, and Station 110 located just north
10 of Berth 44 in the West Channel adjacent to the former San Pedro Boatworks and the
11 proposed Cabrillo Way Marina.

12 Station 112 has a marine task force of 15. It houses Fire Boat 2, a single engine
13 company, a paramedic rescue ambulance, and an emergency medical service captain
14 that responds to all large-scale medical emergencies in the Port area. Station 110
15 houses Fire Boat 5 and has a staff of three including a fireboat mate and two fireboat
16 certified divers. This station is currently located in temporary trailers, with plans
17 pending for a permanent facility on the same site, anticipated to be completed in
18 approximately 3 years. (Roupoli pers. comm. 2007.)

19 The secondary responding fire station to the proposed project area would be Station
20 48, located at 1601 S. Grand Ave. This station, considered to be a hazardous
21 materials task force, has a staff of 16, a 10-man truck and engine, a rescue
22 ambulance, and a hazardous materials squad.

23 The citywide average response time is approximately 6 to 8 minutes. LAFD
24 response time is 5 minutes or less by land and 10 minutes or less by water. As
25 required response times are 9 minutes by land and 14 min by water, these response
26 times are considered adequate. (Roupoli pers. comm. 2007.)

27 **3.13.2.1.3 U.S. Coast Guard**

28 USCG is a federal agency responsible for a broad scope of regulatory, law-
29 enforcement, humanitarian, and emergency-response duties. The USCG mission
30 includes maritime safety, maritime law enforcement, protection of natural resources,
31 maritime mobility, national defense, and homeland security. USCG maintains a post
32 in the Port on Terminal Island. USCG's primary responsibility at the Port is to
33 ensure the safety of vessel traffic in the channels of the Port and in coastal waters.

34 USCG 11th District supports the Port area and the proposed project area. The USCG
35 11th District handles marine safety issues including inspection of U.S. and foreign
36 vessels, maritime security, vessel traffic management, search and rescue, response to
37 and planning for pollution incidents, response to vessel or port emergencies and
38 natural disasters, inspections of waterfront facilities and hazardous material
39 containers, monitoring of oil transfers and explosive loads, licensing of mariners,

1 investigation of marine casualties, and enforcement of fisheries, drug, and other
2 maritime laws. (Gooding pers. comm. 2008.)

3 USCG 11th District's area of responsibility encompasses 300 miles of California
4 coast from the Monterey County line to Dana Point and out 200 miles. The
5 command uses 430 people to perform missions including operation of four HH-65
6 helicopters, four 87-foot patrol boats, three 47-foot boats, four 41-foot boats, and
7 nine rigid hull inflatable boats. USCG field presence in the ports of Los Angeles and
8 Long Beach fluctuates daily depending on port operations and incidents but typically
9 involves between 30 to 50 people in the field who manage vessel traffic; conduct
10 boating safety checks, harbor patrols, commercial vessel inspections, waterfront
11 facility inspections, and container inspections; investigate reports of hazardous
12 material and oil spills; and conduct daily search and rescue efforts.

13 USCG evaluates the location of an operation to ensure that it can adequately respond
14 in a timely fashion. According to USCG policy, USCG must be able to respond
15 within 20 minutes. From underway time to any location, in the worst weather
16 conditions, USCG can reach the proposed project area in less than 15 minutes (10
17 minutes for getting underway, and 5 minutes for travel time), and thus adequately
18 respond to any call within the proposed project area. The travel time to any portion
19 of the proposed project area is less than 30 minutes. As such, USCG would not have
20 to add additional response resources. (Gooding pers. comm. 2008.)

21 USCG, in cooperation with the Marine Exchange, also operates Vessel Traffic
22 Information Systems. This voluntary service is intended to enhance vessel safety in
23 the main approaches to the Port.

24 **3.13.2.2 Public Utilities**

25 **3.13.2.2.1 Water**

26 Water service is provided to the proposed project area by the City of Los Angeles
27 Department of Water and Power (LADWP). LADWP is responsible for conserving,
28 treating, and distributing water for domestic, industrial, agricultural, and firefighting
29 purposes within the City of Los Angeles. Water sources utilized by LADWP include
30 local sources, such as wells and recycled water (for nonpotable uses), and imported
31 sources, including Los Angeles Aqueducts and purchases from the Metropolitan
32 Water District of Southern California (MWD). MWD imports water from the
33 Colorado River via the Colorado River Aqueduct, from northern California via the
34 State Water Project's California Aqueduct, and from various groundwater sources.

35 In terms of the City's overall water supply condition, the water requirement for any
36 project that is consistent with the City's general plan has been taken into account for
37 the planned growth of water demand. In an effort to provide a reliable water supply,
38 LADWP has invested in various sources, including groundwater, recycled water, and
39 water conservation. Specific supply and demand side management strategies are
40 designed to provide a "hedge" against droughts and variability of surface water. The

1 2005 Urban Water Management Plan (UWMP) estimates water demand and supply
2 through and 25-year outlook period, and is updated every 5 years. Calculations in the
3 2005 UWMP are based on assumptions regarding the various supplies of water
4 available and existing and projected levels of water conservation. Based on these
5 calculations, LADWP has predicted service reliability for average and single-dry-year
6 conditions; LADWP expects to be able meet future demand with a combination of
7 existing supplies, planned supplies, and MWD purchases (LADWP 2005). The
8 proposed Project was not included in estimates for the 2005 UWMP. Water supply
9 and availability are assumed in the pending Water Supply Assessment created for the
10 proposed project; this document is expected by the end of 2008.

11 In the UWMP, LADWP forecasted the City to grow 0.4% annually over the next 25
12 years, or approximately 368,000 persons. It is projected that LADWP, along with
13 MWD will have adequate water supply capabilities to meet anticipated growth and
14 increased demands through the outlook period (2030), under wet, dry, and multiple-
15 dry years. (LADWP 2005.)¹

16 LADWP requires consultation with applicants, by means of a Service Advisory
17 Request (SAR), to assess whether the current infrastructure would be able to
18 accommodate the increased water demand based on fire flow requirements. If the
19 SAR determines that current infrastructure would not support a project, LADWP
20 requires that additional infrastructure (i.e., water lines) be constructed at the
21 applicant's expense (LADWP 2003).

22 Water supply and conveyance structures comprise a series of reservoirs and a network
23 of pipelines, including reservoir outlets, major trunk lines, and other delivery lines. In
24 2005, LADWP supplied approximately 610,000 acre-feet of water.² (LADWP 2005.)
25 Distribution water mains are located throughout the proposed project area.
26 Specifically, these mains are located within Harbor Boulevard and Sampson Way,
27 throughout the existing cruise terminal area, 7th Street, Ports O' Call, down to
28 Warehouse No. 1 and the Outer Harbor Terminal, and along Shoshonean Road to
29 Cabrillo Beach.

30 It is important to note that in addition to development and commercial use, the cruise
31 ships that call into the Port on a daily basis also affect water demand. The World
32 Cruise Center currently operates out of two existing terminals (Berths 91–92
33 Terminal and Berth 93 Terminal), with two permanent berths (91–92 and 93), and
34 occasionally uses a temporary third berth at Berth 87. These three berths can
35 accommodate three large vessels simultaneously. Each berth is equipped with water
36 lines, sewer lines, and storm drains to provide for the terminal operations as well as
37 the docked ships. The water demand for cruise ships is estimated by the size of the
38 ship and the average amount of passengers/employees it holds. Currently, 17
39 different cruise lines call at the Port in a given year. A total of 258 ships called at the

¹ The 2005 MWD UWMP is also incorporated by reference and is available at LAHD Environmental Management Division, 425 South Palos Verdes Street, San Pedro, CA and at <http://www.mwdh2o.com/>. As discussed above, the 2005 LADWP UWMP relies, in part, on water supply purchases from MWD. Section A.3 of the 2005 MWD UWMP provides justifications for its supply projections including existing supplies, historical supplies, and contracts for future supplies.

² The 2005 MWD UWMP uses data from the 2003–2004 fiscal year.

1 Port, in 2006, with a total of 587,446 passengers, and approximately 47.08 million
2 gallons of water use. (Melendez pers. comm. 2008).

3 3.13.2.1.2 Sewer and Wastewater Treatment Service

4 The City of Los Angeles Department of Public Works, Bureau of Sanitation,
5 provides wastewater treatment and sewer service to the City. The Bureau of
6 Sanitation operates wastewater treatment and reclamation facilities that serve most of
7 its incorporated areas and several other cities and unincorporated areas in the Los
8 Angeles basin and San Fernando Valley. The existing system comprises two
9 treatment plants; two water reclamation plants; a collection system consisting of over
10 6,500 miles of local, trunk, mainline, and major interceptor sewers; five major outfall
11 sewers; and 48 pumping plants.

12 Several functioning sewer lines exist throughout the proposed project area and are
13 currently being used by the existing development. Wastewater from the area flows to
14 the Terminal Island Treatment Plant (TITP), located at 455 Ferry Street, which treats
15 wastewater for the communities of Wilmington, San Pedro, a portion of Harbor City,
16 and the heavily industrialized Terminal Island. (LA Sewers 2007.) The treatment
17 process consists of pretreatment, primary sedimentation, secondary treatment, sludge
18 digestion, and drying. The TITP treats all flow received to at least first-stage tertiary
19 levels. Some wastewater is further treated for reuse in irrigation and industrial water
20 supplies. The liquid effluent flows to the Outer Harbor to a point approximately
21 3,000 feet off shore via a 60-inch diameter outfall. The TITP is designed to treat 30
22 million gallons per day (mgd). Currently, the plant is processing at approximately
23 55% capacity, treating between 16 mgd and 17 mgd. (City of Los Angeles Bureau of
24 Sanitation 2004.)

25 Cruise ship wastewater is handled off site, on the cruise ship itself. Wastewater on
26 the ship is first treated to tertiary levels. The resulting water, which cannot be reused
27 or recycled, is then dumped offshore. Offshore dumping takes place at least 40
28 nautical miles past the California State line. (Diamond Princess Cruise Tour 2007.)

29 3.13.2.1.3 Solid Waste Service

30 Existing development in the proposed project area generates solid waste consisting of
31 nonhazardous materials, such as food and beverage containers, paper products, and other
32 miscellaneous personal trash; as well as hazardous materials, such as gasoline and diesel
33 from Mike's and Jankovich fueling stations. Construction debris is one of the greatest
34 individual contributors to solid waste capacity, making up approximately 22% of the
35 State of California's waste disposal demand (CIWMB 2004). Due to lower disposal
36 costs, asphalt and concrete are typically recycled for aggregate base or disposed of at
37 inert landfills instead of municipal facilities. All solid waste generated by existing
38 development complies with federal, state, and local regulations and codes pertaining to
39 nonhazardous and hazardous solid waste disposal.

1 Additionally, The City of Industry recently filed and NOD on an EIR for the Puente
2 Hills Intermodal Facility.³ On June 26, 2008, the City of Industry Planning
3 Commission approved a Conditional Use Permit for the project (LACSD 2008). This
4 is a waste-by-rail project whose goal is to plan for and accommodate the solid waste
5 removal needs of Los Angeles County. The proposed facility would eventually have
6 the capacity of two trains on a daily basis, handling a total of 8,000 tons of municipal
7 solid waste per day. It is expected to be operational by 2011 (LACSD 2008). With
8 the Sunshine Canyon City/County Landfill and the intermodal system and anticipated
9 recycle diversion rates for the area (discussed below), solid waste removal and
10 disposal would be adequately provided for the proposed project area.

11 The City of Los Angeles Bureau of Sanitation, in general, and BFI (a private waste
12 management service) provide solid waste collection and disposal services for the
13 proposed project area. The proposed Project is comprised of commercial and
14 industrial uses, so private waste haulers would vary depending on the individual
15 tenant's choice. Los Angeles County Ordinance 7A prohibits solid waste generated in
16 the City from being handled by or disposed of in facilities and landfills operated by the
17 Los Angeles County Sanitation District. Two transfer stations service the proposed
18 project area: the Falcon Refuse Center in the Wilmington Community of Los
19 Angeles, and the Southeast Resource Recovery Facility in the City of Long Beach.

20 The Falcon Refuse Center, operated by BFI, receives an average of 1,850 tons per
21 day. Its permitted capacity is 3,500 tons per day. BFI accepts solid waste from
22 construction and demolition, as well as industrial and mixed-municipal sources.
23 (CIMWB 2007.)

24 The Southeast Resource Recovery Facility is located in the City of Long Beach at
25 120 Pier S Avenue, west of the Terminal Island Freeway (SR 103) and just north of
26 Ocean Boulevard. The facility is owned by a separate authority created by a joint
27 powers agreement between the sanitation districts and the City of Long Beach, but it
28 is operated by a private company under contract. The facility accepts only
29 nonhazardous municipal solid waste (Sanitation Districts of Los Angeles County
30 2007). Currently, the permitted capacity is 2,240 tons per day. The average
31 currently being accepted is 1,900 tons per day; however, this fluctuates per season.
32 The remaining lifespan of this facility is through 2018 (Amzcua pers. comm. 2007).

33 To comply with AB 939 and City of Los Angeles Solid Waste Management Policy
34 Plan (CiSWMPP), a new generation study was conducted for 1999 and 2000. The
35 study included an assessment of the disposal and diversion for Port tenants.
36 Technical assistance was provided to tenants to increase their diversion activities. In
37 2000, LAHD disposed of approximately 5,791 tons of waste and diverted
38 approximately 59,513 tons, achieving a diversion rate of 91%. The waste reduction
39 and recycling assessments in 1999–2000 showed that the tenants audited disposed of
40 12,496 tons and diverted 12,291 tons, for an overall diversion rate of 49.6%. (City of
41 Los Angeles Bureau of Sanitation 2007.) Currently the proposed project area has a
42 diversion rate of 62%, a goal of 70% by 2015, 90% by 2025, and an ultimate goal of
43 zero waste by 2030. (Pereira pers. comm. 2007.)

³ CEQAnet Database. 2008. SCH# 2006021097.

1 Additionally, LAHD's Construction and Maintenance Division recycles asphalt and
2 concrete demolition debris by crushing and stockpiling the crushed material to use on
3 other Port projects. This recycling program resulted in waste disposal savings of
4 46,852 tons in 2000. (City of Los Angeles Bureau of Sanitation 2007.)

5 Cruise terminals are estimated to have an average of 200 employees. This includes
6 longshore personnel, ground support personnel, security guards, federal inspection
7 service, and terminal management. Cruise ship and associated terminal solid waste
8 can be created both on shore and off shore. Palettes of solid waste measuring 1 cubic
9 meter are carried off the ship while docked. The total solid waste for cruise ships is
10 estimated for onshore solid waste by the amount of employees per terminal, and for
11 offshore solid waste by the number of passengers per ship.

12 **Storm Drainage**

13 Storm drains are located throughout the proposed project area and maintained by
14 LAHD, City of Los Angeles, and Los Angeles County. Storm drains in the proposed
15 project vicinity have sufficient capacity to accommodate current demands, and are
16 designed to accommodate 10-year storm events. (Zambrano pers. comm. 2008b).

17 **3.13.2.1.4 Electrical Service**

18 The proposed project area is located in the LADWP service area. LADWP maintains
19 various generating and distribution substations throughout the greater Los Angeles
20 area, including generating and distribution centers in and near the Port that serve the
21 proposed project area. LADWP supplies electricity generated by its system of
22 resources, which consist of a mix of renewable energy, hydro generation, gas-fired
23 generation, coal-fired generation, nuclear generation, and purchases from others
24 within the west. (Holloway pers. comm. 2007.)

25 The industrial power station closest to the Port has four main 138-kilovolt (kV)
26 supply lines: two from the harbor steam plant, and two from North Wilmington. The
27 circuits that serve this area originate from Receiving Station Q (Harbor) located at
28 150 Island Avenue in the community of Wilmington. Several other electrical power
29 lines extend throughout the Port area. LADWP has both 34.5-kV and 4.8-kV
30 overhead and underground lines near the proposed Project area. (Holloway pers.
31 comm. 2007.) LADWP maintains a generating station at the intersection of Swinford
32 Street and North Front Street in the proposed project area, in the vicinity of the
33 Catalina Express Terminal parking lot under the Vincent Thomas Bridge. Overall,
34 LADWP supplies nearly 22 billion kilowatt hours (kWh) of electricity per year for
35 the City's 1.4 million electric customers. (LADWP 2007.)

36 Total electricity demand for the proposed project area for the baseline year (2006),
37 including commercial demand, cruise ship demand, and Waterfront Red Car Line
38 demand, was 120.08 megawatts (MW) per year. LADWP has a total generating
39 capacity of about 7,000 MW per day to serve a peak Los Angeles demand of about

1 5,600 MW per day. LADWP's Integrated Resource Plan (IRP) anticipates load
2 growth and plans new generating capacity or demand side management programs to
3 meet load requirements for future customers. Through the IRP and LADWP's
4 current generating capacity, LADWP has adequate generation to serve the current
5 customer load. (Chuck Holloway, pers. comm. 2007.)

6 **Waterfront Red Car Line**

7 The existing Waterfront Red Car Line is an electrically powered trolley service that
8 provides transportation to thousands of Port visitors and surrounding community
9 residents each year. The trolley line consists of four stops/stations, occurring on a
10 1.5-mile route along Harbor Boulevard. Currently the Waterfront Red Car Line uses
11 62,000 kWh annually. This is based on 15,500 annual railcar vehicle miles.

12 **Cruise Ship Energy Demand Outlook**

13 The cruise ships that call at the Port will run on alternative marine power (AMP) in
14 the future. AMP reduces emissions from docked container vessels. The AMP
15 program will allow the vessels to plug into shoreside electrical power while docked
16 instead of using their onboard generators, which can emit an array of pollutants.
17 AMP facilities are currently being designed and planned for the existing Inner Harbor
18 Cruise Terminal, which are scheduled to be available for existing ships that are
19 equipped with the infrastructure by 2009; AMP facilities would be available upon
20 opening of the Outer Harbor Cruise Terminal in 2012.

21 On average, AMP supplies 4-to5 MW per ship with a maximum of 11 to 15 MW
22 depending on the size of the ship and other variables such as weather and use of air-
23 conditioning (Chase pers. comm. 2008). Along with ship AMP, the associated
24 terminals will provide an average of 1.5 MW (Haddadian pers. comm.) For the
25 planning horizon year (2037), power use is not expected to grow beyond the
26 maximum available AMP of 15 MW per ship (Chase pers. comm.). As each berth is
27 built and/or upgraded, it would be modified to accommodate AMP. Each ship docks
28 for an average of 12 hours with an estimated average AMP use of 5 MW docking or
29 0.42 MW per hour (Chase pers. comm. 2008). The percentages of all ships calling at
30 the Inner Harbor Cruise Terminal that are expected to use AMP while docked are:
31 30% in 2009 and 80% in 2013 and beyond. Approximately 90% of all ships calling
32 at the proposed Outer Harbor Cruise Terminal are expected to use AMP while
33 docked by 2013 and thereafter.

34 The construction and installation of the AMP facilities and substation to provide for
35 the AMP upgrades to the cruise ships and terminals has been arranged through a
36 change order to a previously agreed upon contract between the City of Los Angeles
37 and the Griffith Company. The change order will provide additional funding for
38 installing AMP receptacles at the Port's Outer and Inner Harbor Cruise Terminals,
39 thereby encouraging compliance with the Port's Clean Air Action Plan (CAAP). As
40 such, the Director of Environmental Management determined that the AMP facilities
41 construction and installation is exempt from the requirements of CEQA under Article

1 II, Section 2(If) and Article III, Section 3(4) of the Los Angeles City CEQA
2 guidelines. Therefore, the utility requirements of AMP upgrades will not be analyzed
3 within this EIR.⁴

4 **3.13.2.1.5 Natural Gas Service**

5 Natural gas service to the proposed project area would be supplied by the Southern
6 California Gas Company (Gas Company). As a public utility, the Gas Company is
7 under the jurisdiction of the state Public Utilities Commission (PUC) and can be
8 affected by actions of federal regulatory agencies. California natural gas demand, in
9 general, is expected to grow at a rate of 0.1 percent per year from 2008 to 2030;
10 however, demand in the commercial sector is expected to remain the same during this
11 time period, while the industrial sector will decrease in demand by 1.0 percent per
12 year (California Gas and Electric Utilities 2008). Building and appliance standards
13 have reduced the need for gas space heating and water heating for each business in
14 the state (California Energy Commission 2007).

15 Additionally, a recently approved Costa Azul facility in Ensenada, Baja California is
16 expected to begin operation by the end of 2008. Current analysis anticipates receiving
17 about 500 million cubic feet a day of natural gas from the facility starting early in
18 2009. Almost all the Mexican natural gas entering California will displace domestic
19 southwest supplies that currently come to California (California Energy Commission
20 2007).

21 California's existing gas supply is regionally diverse (the southwestern U.S., the
22 Rocky Mountains, and Canada) and includes supplies from onshore and offshore
23 sources. Southern California currently operates in an environment where interstate
24 pipeline capacity is in excess of anticipated demand. The interstate pipeline systems,
25 along with local California gas supplies, deliver gas to Los Angeles area customers
26 through the Gas Company. The 2008 California Gas Report forecasts a 22-year
27 period, through the year 2030. The report predicts the natural gas supply for southern
28 California to be 2,624 MMcf/day in 2015 and 2,709 MMcf/day in 2030 (California
29 Gas and Electric Utilities 2008).

30 **3.13.3 Applicable Regulations**

31 LAHD is directed by internal standards and policies that guide the provision of
32 service to its customers. Each agency charged with protecting the public (LAFD,
33 LAPD, Port Police, and USCG) maintains specific standards, such as response times
34 and levels of service that must be adhered to during construction and operation of a
35 project. Each public utility agency and private utility provider, including LADWP
36 and the Gas Company, are directed by internal standards and policies that guide the

⁴ The Port of Los Angeles. March 12, 2008. Construction Division. Executive Director's Report to the Board of Harbor Commissioners. Change Order No. 3 – Alternative Maritime Power (AMP) at the Cruise Terminal and Supplemental Agreement No. 1. Contractor: Griffith Company. Specification No. 2686A. Contract No. 2242.

1 provision of service to their customers. Specific to LADWP and the Gas Company,
2 the California Energy Commission regulates the provision of natural gas and
3 electricity in the state.

4 **3.13.3.1 The Maritime Transportation Security Act**

5 MTSA and its international equivalent, the ISPS Code (adopted by the International
6 Maritime Organization), require port authorities and facility operators to designate
7 and train company, vessel, and facility security officers and develop security plans
8 for facilities and vessels based on security assessments and surveys. MTSA
9 regulations also guide implementation of security measures specific to the operations
10 of each facility and compliance with maritime security levels. Regulations regarding
11 the submittal of security plans became effective December 31, 2003; operational
12 compliance was mandated by July 1, 2004.

13 **3.13.3.2 Senate Bill 610 Water Supply Assessment**

14 Senate Bill No. 610 (Costa) became effective January 1, 2002. The bill requires a
15 city or county that determines that a project (as defined in Water Code Section
16 10912) is subject to CEQA to identify any public water system that may supply water
17 for the project and to request those public water systems to prepare a specified water
18 supply assessment. The assessment is required to include an identification of existing
19 water supply entitlements, water rights, or water service contracts relevant to the
20 identified water supply for the proposed project and water received in prior years
21 pursuant to those entitlements, rights, and contracts. The assessment must be
22 approved by the governing body of the public water system supplying water to the
23 project. If the projected water demand associated with the project was included as
24 part of the most recently adopted urban water management plan, the public water
25 system may incorporate the requested information from the urban water management
26 plan in the water supply assessment. The bill requires the city or county, if it is not
27 able to identify any public water system that may supply water for the project, to
28 prepare the water supply assessment after a prescribed consultation.

29 If the public water system concludes that water supplies are, or will be, insufficient,
30 plans for acquiring additional water supplies are required to be submitted to the city
31 or county. The city or county must include the water supply assessment in any
32 environmental document prepared for the project pursuant to the act. It also requires
33 the city or county to determine whether project water supplies will be sufficient to
34 satisfy the demand of the project, in addition to existing and planned future uses.

35 **3.13.3.3 California Urban Water Management Act**

36 The California Urban Water Management Planning Act requires urban water
37 suppliers to initiate planning strategies that make every effort to ensure the

1 appropriate level of reliability in its water service sufficient to meet the needs of its
2 various categories of customers during normal, dry, and multiple dry-water years.
3 LADWP would be the water supplier, and as such the proposed Project would be
4 under the jurisdiction of the LADWP UWMP, prepared pursuant to the California
5 Urban Water Management Planning Act.

6 **3.13.3.4 LADWP Urban Water Management Plan**

7 Consistent with the California Urban Water Management Planning Act, LADWP has
8 prepared an UWMP to describe how water resources are used and to present
9 strategies that will be used to meet the City's current and future water needs. To
10 meet the objectives of the California Urban Water Management Planning Act, the
11 LADWP UWMP focuses primarily on water supply reliability and water use
12 efficiency measures. The California Urban Water Management Planning Act
13 requires water suppliers to develop water management plans every 5 years. LADWP
14 most recently completed this 5-year update in 2005. The 2005 UWMP was
15 completed as an update to the previous 2000 UWMP to comply with the Urban
16 Water Management Planning Act. LADWP also published annual fiscal year updates
17 in the 2005 UWMP. The 2005 UWMP projects water demand and supply through
18 2030; total demand for water is predicted to be 755,000 acre-feet in 2025 and
19 766,000 acre-feet in 2030. LADWP expects it will be able meet this demand with a
20 combination of existing supplies, planned supplies, and MWD purchases (existing
21 and planned) (LADWP 2005).

22 **3.13.3.5 California Solid Waste Reuse and Recycling** 23 **Access Act**

24 The California Solid Waste Reuse and Recycling Access Act of 1991 required each
25 jurisdiction to adopt an ordinance by September 1, 1994, requiring any "development
26 project" for which an application for a building permit is submitted to provide an
27 adequate storage area for collection and removal of recyclable materials. AB 1327
28 regulations govern the transfer, receipt, storage, and loading of recyclable materials
29 at the Port.

30 **3.13.3.6 Assembly Bill 939: California Integrated Waste** 31 **Management Act**

32 The State of California requires that all jurisdictions achieve compliance with
33 AB 939, a state mandate that requires jurisdictions to achieve 50% diversion of solid
34 waste from landfills by 2000. AB 939 further requires each city to conduct a Solid
35 Waste Generation Study and to prepare annually a Source Reduction and Recycling
36 Element (SRRE) to describe how it will reach its goals. AB 939 was designed to
37 focus on source reduction, recycling and composting, and environmentally safe

1 landfilling and transformation activities. This act required cities and counties to
2 divert 25% of all solid waste from landfills and transformation facilities by 1995, and
3 50% by year 2000. The AB 939 2000 report showed that the City of Los Angeles
4 met and exceeded the 2000 goals; in 2000, the City's diversion rate was 58.8%. In
5 2000, LAHD's diversion rate was 76.5% (City of Los Angeles 2001a).

6 **3.13.3.7 City of Los Angeles Solid Waste Management** 7 **Policy Plan**

8 Adopted by the City Council in November 1994, the CiSWMPP is a long-term
9 planning document containing goals, objectives, and policies for solid waste
10 management for the City. It specifies citywide diversion goals and disposal capacity
11 needs. The mandate was enacted to encourage reduction, recycling, and reuse of
12 solid waste generated in the state to preserve landfill capacity, conserve water,
13 energy, and other natural resources, and to protect the state's environment. (City of
14 Los Angeles 2006.)

15 **3.13.3.8 California's Building Code CCR, Title 24,** 16 **Part 6**

17 Title 24, Part 6 of the California's Building Code describes California's energy
18 efficiency standards for residential and nonresidential buildings. These standards
19 were established in 1978 in response to a legislative mandate to reduce California's
20 energy consumption and have been updated periodically to include new energy
21 efficiency technologies and methods. Title 24 requires building according to energy
22 efficient standards for all new construction, including new buildings, additions,
23 alterations, and, in nonresidential buildings, repairs.

24 **3.13.3.9 Standard Urban Stormwater Mitigation Plan**

25 On December 13, 2001, the Regional Water Quality Control Board issued a
26 Municipal Storm Water National Pollutant Discharge Elimination System Permit
27 (NPDES Permit No. CAS004001) that requires new development and redevelopment
28 projects to incorporate storm water mitigation measures.

29 Depending on the type of project, either a Standard Urban Stormwater Mitigation
30 Plan or a Site Specific Mitigation Plan is required to reduce the quantity and improve
31 the quality of rainfall runoff that leaves the site. Developers are encouraged to begin
32 work on complying with these regulations by visiting the Watershed Protection
33 Division (WPD) in the design phase of their projects.

3.13.3.10 Fire Protection and Prevention Plan

Fire prevention, fire protection, and emergency medical services in the City of Los Angeles are operated under the Fire Protection and Prevention Plan, an Element of the City of Los Angeles General Plan, and the Fire Code section of the Los Angeles Municipal Code. The Fire Protection and Prevention Plan serves as a guide for the construction, maintenance, and operation of fire protection facilities in the City (City of Los Angeles 2001b). The plan sets forth policies and standards for fire station distribution and location, fire suppression water-flow (or *fire flow*), fire hydrant standards and locations, firefighting equipment access, emergency ambulance services, and fire prevention activities. LAFD also considers population, density, nature of onsite land uses, and traffic flow in evaluating the adequacy of fire protection services for a specific area or land use.

3.13.3.11 Port of Los Angeles Sustainability Plan

The development of the Port of Los Angeles Sustainability Plan is in response to the Mayoral-initialized Executive Directive No. 10, “Sustainable Practices in the City of Los Angeles,” passed in June 2007. “This directive sets forth his vision to transform Los Angeles into the most sustainable large city in the country and includes goals in the areas of energy and water, procurement, contracting, waste diversion, non-toxic product selection, air quality, training, and public outreach” (LAHD 2008b). Thirty-two of the Port’s current environmental programs already meet, in varying degrees, all the goals of the Executive Directive. However, there are identified areas of improvement, specifically in the areas of employee training and public outreach. Currently, development of the Port of Los Angeles Sustainability Plan is still in progress.

3.13.3.12 Green Building Policy

On August 27, 2003, the Board of Harbor Commissioners approved the LAHD Environmental Management Policy, which includes guidelines on implementation of Leadership in Energy and Environmental Design (LEED) certification and standards for new and existing building construction and/or renovation.

The LEED Green Building Rating System is voluntary, consensus-based, and market-driven, and is based on existing, proven technology that evaluates environmental performance in five categories:

- sustainable site planning,
- improving energy efficiency,
- conserving materials and resources,
- embracing indoor environmental quality, and

- 1 ■ safeguarding water.

2 Points are earned for goals accomplished in each category, and the certification level
3 for a building is determined by the total amount of points. There are four LEED
4 certification levels: Certified (23–32 points), Silver (33–38 points), Gold (39–51
5 points), and Platinum (52–69 points).

6 The City of Los Angeles has adopted the policy that all new City buildings of 7,500
7 square feet or more should be designed, whenever possible, to meet the LEED
8 Certified level. LAHD has taken this policy further, and under the jurisdiction of the
9 Harbor Department, all construction must meet the following :

- 10 ■ New construction (i.e., office buildings) 7,500 square feet or greater, without
11 compromising functionality, will be designed to a minimum level of LEED New
12 Construction (NC) Gold.
- 13 ■ New construction (i.e., marine utilitarian buildings such as equipment
14 maintenance), without compromising functionality, will be designed to a
15 minimum level of LEED NC Silver.
- 16 ■ Existing buildings of 7,500 square feet or greater will be inventoried as evaluated
17 for their applicability to the LEED Existing Building Standards. Priority for
18 certification will be determined by building operation and maintenance
19 procedures.
- 20 ■ All other buildings will be designed or constructed to meet the highest achievable
21 LEED standard to the extent feasible for the building’s purpose.
- 22 ■ In addition, all Port buildings will include solar power to the maximum extent
23 feasible, as well as incorporation of the best available technology for energy and
24 water efficiency.
- 25 ■ A sustainability staff has been created to continuously evaluate and advance
26 LAHD’s sustainability practices, as well as develop green guidelines and
27 sustainable strategies.

28 **3.13.4 Impacts and Mitigation Measures**

29 **3.13.4.1 Methodology**

30 **3.13.4.1.1 Public Services**

31 The proposed Project and alternatives were evaluated to determine if LAPD, Port
32 Police, USCG, and LAFD protection facilities are adequately staffed and located
33 around the proposed Project area to respond to an emergency situation in a timely
34 manner, without the provision of additional physical facilities.

1 Public services for the proposed Project were assessed in their ability to handle
2 potential physical environmental effects caused by increases in service demand,
3 which could increase the need to build new or additional facilities.

4 All agencies were contacted to obtain information regarding their existing and
5 projected service capacity, as well as the projected impacts that would result from
6 implementation of the proposed Project. Wherever possible (i.e., for agencies that
7 provided a demand factor or service ratio), quantifications were included to
8 demonstrate specific demands.

9 **3.13.4.1.2 Utilities and Service Systems**

10 Assessment of the proposed Project and alternatives impacts on utilities (water,
11 wastewater, solid waste) and energy providers (electricity and natural gas) varies
12 depending on the utility but generally includes a comparison of the project-generated
13 demand against existing and anticipated resource supplies and/or conveyance
14 capacity. Quantifications of demands and generations were included based on factors
15 provided by the applicable agencies, as shown in Tables 3.13-1 through 3.13-5.

16 Water supply or conveyance impacts are typically evaluated by estimating water
17 consumption factors associated with proposed project site land uses or, for
18 nonresidential development, unit demand factors per acre or gross square foot, as
19 established by the City of Los Angeles in the *L.A. CEQA Thresholds* (City of Los
20 Angeles 2006:M.1-4). Water demand estimates for the proposed Project have been
21 based on the expected amount of wastewater production. Water use is proportionate
22 to wastewater discharge and is calculated as such. Water consumption is 111%
23 (1.11) of wastewater production (City of Los Angeles Bureau of Sanitation 2005).
24 For cruise ships, water demand has been estimated on a daily passenger use average
25 per ship, based on 2006 water demand data gathered from Pacific Cruise Ship
26 Terminals LLC.

27 The commercial square footages were determined using the total areas of the various
28 buildings for the proposed Project. Table 3.13-1 shows the water demand, which
29 represents the baseline, proposed Project, and alternative conditions.

30 Assessment of impacts on sewers or wastewater treatment systems generally includes
31 the comparison of the Project-related, land use-based wastewater flow generation to
32 the existing and projected wastewater treatment capacity of the Treatment Plant. The
33 wastewater generation factors, as stated in *L.A. CEQA Thresholds Guide*, are as
34 follows (City of Los Angeles 2006:Exhibit M.2-12):

- 35 ■ commercial/retail: 80 gallons per day (gpd)/1,000 square feet;
- 36 ■ manufacture/industrial: 80 gpd/1,000 square feet;
- 37 ■ museum: 20 gpd/1,000 square feet;
- 38 ■ surface parking: 80 gpd/1,000 square feet; and
- 39 ■ warehouse: 20 gpd/1,000 square feet.

| | <i>Draft LA CEQA Threshold Development Type Description*</i> | <i>Average Daily Flow (Gpd/unit)*</i> | <i>CEQA Baseline 2006 (sq ft)</i> | <i>Proposed Project 2015 (sq ft)</i> | <i>Proposed Project 2037 (sq ft)</i> | <i>Alt. 1 2015 (sq ft)</i> | <i>Alt. 1 2037 (sq ft)</i> | <i>Alt. 2 2015 (sq ft)</i> | <i>Alt. 2 2037 (sq ft)</i> | <i>Alt. 3 2015 (sq ft)</i> | <i>Alt. 3 2037 (sq ft)</i> | <i>Alt. 4 2015 (sq ft)</i> | <i>Alt. 4 2037 (sq ft)</i> | <i>Alt. 5 (No Federal Action) 2015 (sq ft)</i> | <i>Alt. 5 (No Federal Action) 2037 (sq ft)</i> | <i>Alt. 6 2015 (sq ft)</i> | <i>Alt. 6 2037 (sq ft)</i> |
|-------------------------------------|--|---------------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|--|----------------------------|----------------------------|
| Catalina Terminal | Commercial Use | 80/1000 Gr sq ft | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 |
| SS Lane Victory | Commercial Use | 80/1000 Gr sq ft | 2,400 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Cruise Ship Terminals | Commercial Use | 80/1000 Gr sq ft | 248,140 | 448,140 | 448,140 | 253,250 | 253,250 | 448,140 | 448,140 | 348,140 | 348,140 | 153,250 | 153,250 | 153,250 | 153,250 | 248,140 | 248,140 |
| Crowley Marine Tugs | Commercial Use | 80/1000 Gr sq ft | 4,225 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| LA Maritime Institute | Commercial Use | 80/1000 Gr sq ft | 3,400 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 5,500 | 5,500 | 5,500 | 5,500 |
| Ralph J. Scott Historic Fireboat | Museum: All Areas | 20/1000 Gr sq ft | 0 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 0 | 0 |
| Ports O' Call | Commercial/Retail Use | 80/1000 Gr sq ft | 150,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 | 187,500 | 187,500 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 |
| Jankovich & Son | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 10,197 | 0 | 0 | 10,197 | 10,197 |
| Mike's fueling station | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 1,548 | 1,548 | 1,548 | 0 | 0 | 1,548 | 1,548 | 1,548 | 1,548 | 0 | 0 | 1,548 | 1,548 | 0 | 0 |
| Municipal Warehouse No. 1 | Warehouse | 20/1000 Gr sq ft | 504,000 | 504,000 | 504,000 | 474,000 | 474,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 |
| Waterfront Red Car Maintenance | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 10,000 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 0 | 0 |
| Warehouse No. 9 | Warehouse | 20/ 1000 Gr sq ft | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 0 | 0 |
| Warehouse No. 10 | Warehouse | 20/ 1000 Gr sq ft | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 87,500 | 0 | 0 |
| Westway Terminal | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 11,853 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Parking ¹ | Surface Parking | 80/1000 Gr sq ft | 2,800,000 | 3,219,045 | 3,219,045 | 3,263,820 | 3,263,820 | 3,121,088 | 3,121,088 | 2,452,410 | 2,452,410 | 3,774,982 | 3,774,982 | 3,731,452 | 3,731,452 | 2,912,468 | 2,912,468 |
| Total Demand for Development | | | | | | | | | | | | | | | | | |
| Conversion | | | (1.11)(275, | (1.11)(344, | (1.11)(344, | (1.11)(331, | (1.11)(331, | (1.11)(336, | (1.11)(336, | (1.11)(259, | (1.11)(259, | (1.11)(363, | (1.11)(363, | (1.11)(359, | (1.11)(359, | (1.11)(297, | (1.11)(297, |

¹ Parking for the proposed Project and Alternatives has been approximated by aerial estimations.

| | <i>Draft LA CEQA Threshold Development Type Description*</i> | <i>Average Daily Flow (Gpd/unit)*</i> | <i>CEQA Baseline 2006 (sq ft)</i> | <i>Proposed Project 2015 (sq ft)</i> | <i>Proposed Project 2037 (sq ft)</i> | <i>Alt. 1 2015 (sq ft)</i> | <i>Alt. 1 2037 (sq ft)</i> | <i>Alt. 2 2015 (sq ft)</i> | <i>Alt. 2 2037 (sq ft)</i> | <i>Alt. 3 2015 (sq ft)</i> | <i>Alt. 3 2037 (sq ft)</i> | <i>Alt. 4 2015 (sq ft)</i> | <i>Alt. 4 2037 (sq ft)</i> | <i>Alt. 5 (No Federal Action) 2015 (sq ft)</i> | <i>Alt. 5 (No Federal Action) 2037 (sq ft)</i> | <i>Alt. 6 2015 (sq ft)</i> | <i>Alt. 6 2037 (sq ft)</i> |
|--|--|---|---|--|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|--------------------------------|--------------------------------|
| (111% of Wastewater Flow) | | | 314) | 128) |) | 643) | 643) | 292) | 292) | 997) | 997) | 488) | 488) | 139) | 139) | 146) | 146) |
| Total Water Demand | | | 305,599 gpd | 381,982 gpd | 381,982 gpd | 368124 gpd | 368124 gpd | 373284 gpd | 373284 gpd | 288,597 gpd | 288,597 gpd | 403472 gpd | 403472 gpd | 398,645 gpd | 398,645 gpd | 329832 gpd | 329832 gpd |
| Total Water Demand | | | 111.54 mgy | 139.42 mgy | 139.42 mgy | 134.37 mgy | 134.37 mgy | 136.25 mgy | 136.25 mgy | 105.34 mgy | 105.34 mgy | 147.27 mgy | 147.27 mgy | 145.51 mgy | 145.51 mgy | 120.39 mgy | 120.39 mgy |
| Total Demand for Cruise Ships Calling at the Port | | | | | | | | | | | | | | | | | |
| Total Water Demand | | | 128,989 gpd | 159,926 gpd | 247,907 gpd | 159,926 gpd | 247,907 gpd | 159,926 gpd | 247,907 gpd | 159,926 gpd | 247,907 gpd | 152,601 gpd | 207,954 gpd | 152,601 gpd | 207,954 gpd | 152,601 gpd | 207,954 gpd |
| Total Water Demand | | | 47.08 mgy | 58.37 mgy | 90.49 mgy | 58.37 mgy | 90.49 mgy | 58.37 mgy | 90.49 mgy | 58.37 mgy | 90.49 mgy | 55.70 mgy | 75.90 mgy | 55.70 mgy | 75.90 mgy | 55.70 mgy | 75.90 mgy |
| Total Demand (Development and Cruise Ships) | | | | | | | | | | | | | | | | | |
| Total Water Demand | | | 158.62 mgy | 197.80 mgy | 229.90 mgy | 192.74 mgy | 224.85 mgy | 194.62 mgy | 226.74 mgy | 163.71 mgy | 195.82 mgy | 202.97 mgy | 223.17 mgy | 201.21 mgy | 221.41 mgy | 176.09 mgy | 196.29 mgy |
| Total Water Demand | | | 486.80 afy | 607.01 afy | 705.54 afy | 591.50 afy | 690.04 afy | 597.27 afy | 695.84 afy | 502.41 afy | 600.95 afy | 622.89 afy | 684.88 afy | 617.49 afy | 679.48 afy | 540.40 afy | 602.39 afy |

| | <i>Draft LA CEQA Threshold Development Type Description*</i> | <i>Average Daily Flow (Gpd/unit)*</i> | <i>CEQA Baseline (sq ft)</i> | <i>Proposed Project (sq ft)</i> | <i>Alt. 1 (sq ft)</i> | <i>Alt. 2 (sq ft)</i> | <i>Alt. 3 (sq ft)</i> | <i>Alt. 4 (sq ft)</i> | <i>Alt. 5 (No Federal Action) (sq ft)</i> | <i>Alt. 6 (sq ft)</i> |
|----------------------------------|--|---|----------------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|---------------------------|
| Catalina Terminal | Commercial Use | 80/1000 Gr sq ft | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 | 38,642 |
| SS Lane Victory | Commercial Use | 80/1000 Gr sq ft | 2,400 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Cruise Ship Terminals | Commercial Use | 80/1000 Gr sq ft | 248,140 | 448,140 | 253,250 | 448,140 | 348,140 | 153,250 | 153,250 | 248,140 |
| Crowley Marine Tugs | Commercial Use | 80/1000 Gr sq ft | 4,225 | 10,000 | 10,000 | 10,000 | 10,000 | 0 | 0 | 0 |
| LA Maritime Institute | Commercial Use | 80/1000 Gr sq ft | 3,400 | 4,225 | 4,225 | 4,225 | 4,225 | 4,225 | 5,500 | 5,500 |
| Ralph J. Scott Historic Fireboat | Museum: All Areas | 20/1000 Gr sq ft | 0 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 0 |
| Ports O' Call | Commercial/Retail Use | 80/1000 Gr sq ft | 150,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 | 375,000 |
| Jankovich & Son | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 10,197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mike's fueling station | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 1,548 | 1,548 | 0 | 1,548 | 1,548 | 0 | 1,548 | 0 |
| Municipal Warehouse No. 1 | Warehouse | 20/1000 Gr sq ft | 504,000 | 504,000 | 474,000 | 504,000 | 504,000 | 504,000 | 504,000 | 504,000 |
| Waterfront Red Car Maintenance | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 10,000 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 17,600 | 0 |
| Warehouse No. 9 | Warehouse | 20/ 1000 Gr sq ft | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 0 |
| Warehouse No. 10 | Warehouse | 20/ 1000 Gr sq ft | 87,500 | 87,500 | 87500 | 87500 | 87500 | 87500 | 87500 | 0 |
| Westway Terminal | Manufacture or Industrial Facility | 80/1000 Gr sq ft | 11,853 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Parking ¹ | Surface Parking | 80/1000 Gr sq ft | 2,800,000 | 3,219,045 | 3,263,820 | 3,121,088 | 2,452,410 | 3,774,982 | 3,731,452 | 2,912,468 |
| Total Flow (gal/day) | | | 275,314 gpd | 343,313 gpd | 330,827 gpd | 335,476 gpd | 259,182 gpd | 362,672 gpd | 359,139 gpd | 296,330 gpd |
| Total Flow (mil gal/day) | | | .28 mgd | .34 mgd | .33 mgd | .34 mgd | .26 mgd | .36 mgd | .36 mgd | .30 mgd |
| TITP Capacity | | | 30 mgd | 30 mgd | 30 mgd | 30 mgd | 30 mgd | 30 mgd | 30 mgd | 30 mgd |
| Percent of TITP Capacity | | | .009% | .011% | .011% | .011% | .009% | .012% | .012% | .01% |

¹ Parking for the proposed Project and Alternatives has been approximated by aerial estimations.

| Cruise Terminal Employees Per Ship | CEQA Baseline 2006 | Proposed Project 2015 | Proposed Project 2037 | Alt 1 2015 | Alt 1 2037 | Alt 2 2015 | Alt 2 2037 | Alt 3 2015 | Alt 3 2037 | Alt 4 2015 | Alt 4 2037 | Alt 5 (No Federal Action) 2015 | Alt 5 (No Federal Action) 2037 | Alt 6 2015 | Alt 6 2037 |
|--|--------------------|-----------------------|-----------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|--------------------------------|--------------------------------|-----------------|----------------|
| Longshore Personnel | 50 | 55 | 65 | 55 | 65 | 55 | 65 | 55 | 65 | 55 | 65 | 55 | 65 | 55 | 65 |
| Ground Support Personnel | 75 | 80 | 90 | 80 | 90 | 80 | 90 | 80 | 90 | 80 | 90 | 80 | 90 | 80 | 90 |
| Security Guards | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Federal Inspection Service | 20 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 | 25 | 40 |
| Terminal Management | 10 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 |
| Total Employees | 200 | 200 | 240 | 200 | 240 | 200 | 240 | 200 | 240 | 200 | 240 | 200 | 240 | 200 | 240 |
| Ship Calls (yearly) | 258 | 275 | 287 | 275 | 287 | 275 | 287 | 275 | 287 | 275 | 287 | 275 | 287 | 275 | 287 |
| Solid Waste Generation Rate (lb/employee/day) | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 |
| Onshore Solid Waste Generation (lb/day) (Employees x calls x generation rate) | 1488.625 | 1586.712 | 1987.141 | 1586.712 | 1987.141 | 1586.712 | 1987.141 | 1586.712 | 1987.141 | 1586.712 | 1987.141 | 1586.712 | 1987.141 | 1586.712 | 1987.141 |
| Offshore Solid Waste Generation (lb/day) | 134.7325 | 183.8582 | 342.1388 | 183.8582 | 342.1388 | 183.8582 | 342.1388 | 183.8582 | 342.1388 | 183.8582 | 342.1388 | 183.8582 | 342.1388 | 183.8582 | 342.1388 |
| Total Solid Waste Generation (lbs/day)(Cruise Terminals) | 1623.357 | 1770.571 | 2329.28 | 1770.571 | 2329.28 | 1770.571 | 2329.28 | 1770.571 | 2329.28 | 1770.571 | 2329.28 | 1770.571 | 2329.28 | 1770.571 | 2329.28 |
| Other Development Solid Waste Generation | | | | | | | | | | | | | | | |
| Residential Solid Waste generation Residents (Other Development-Residential) | | | | | | | | | | | | | | | |
| Fire Station 112 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Residential Solid Waste Generation Rate | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 | 12.23 |
| Total Solid Waste Generation (lb/day) (Other Development-Residential) (Fireman x generation rate) | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 | 183.45 |
| Commercial Solid Waste Generation Employees (Other Development – Commercial) | | | | | | | | | | | | | | | |
| Crowley Marine Tugs | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| LA Maritime Institute | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| Millennium Tugs | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| Ports O'Call Development | 300 | 750 | 750 | 750 | 750 | 750 | 750 | 375 | 375 | 750 | 750 | 750 | 750 | 750 | 750 |
| Ralph J. Scott Fireboat | 4 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Waterfront Red Car Museum | 0 | 0 | 0 | 25 | 25 | 0 | 0 | 25 | 25 | 25 | 25 | 0 | 0 | 0 | 0 |
| SS Lane Victory | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 |
| Total Employees (Other Development – Commercial) | 419.9 | 889.9 | 889.9 | 914.9 | 914.9 | 889.9 | 889.9 | 539.9 | 539.9 | 914.9 | 914.9 | 889.9 | 889.9 | 865.9 | 865.9 |
| Commercial Solid Waste | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 | 10.53 |

| <i>Cruise Terminal Employees Per Ship</i> | <i>CEQA Baseline 2006</i> | <i>Proposed Project 2015</i> | <i>Proposed Project 2037</i> | <i>Alt 1 2015</i> | <i>Alt 1 2037</i> | <i>Alt 2 2015</i> | <i>Alt 2 2037</i> | <i>Alt 3 2015</i> | <i>Alt 3 2037</i> | <i>Alt 4 2015</i> | <i>Alt 4 2037</i> | <i>Alt 5 (No Federal Action) 2015</i> | <i>Alt 5 (No Federal Action) 2037</i> | <i>Alt 6 2015</i> | <i>Alt 6 2037</i> |
|---|---------------------------|------------------------------|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------------|---------------------------------------|-------------------|-------------------|
| Generation Rate | | | | | | | | | | | | | | | |
| Total Solid Waste Generation (lb/day) (Other Development-Commercial) (Employees x generation rate) | 4421.547 | 9370.647 | 9370.647 | 9633.897 | 9633.897 | 9370.647 | 9370.647 | 5685.15 | 5685.15 | 9633.897 | 9633.897 | 9370.647 | 9370.647 | 9117.927 | 9117.927 |
| Industrial Solid Waste Generation Employees (Other Development-Industrial) | | | | | | | | | | | | | | | |
| Jankovich & Son | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mike's fueling station | 17 | 17 | 25 | 0 | 0 | 17 | 25 | 17 | 25 | 0 | 0 | 17 | 25 | 0 | 0 |
| Municipal Warehouse No 1 | 1008 | 1008 | 1008 | 948 | 948 | 1008 | 1008 | 1008 | 1008 | 1008 | 1008 | 1008 | 1008 | 1008 | 1008 |
| Waterfront Red Car Maintenance | 11 | 34 | 68 | 34 | 68 | 34 | 68 | 34 | 68 | 34 | 68 | 34 | 68 | 0 | 0 |
| Warehouse No. 9 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 0 | 0 |
| Warehouse No. 10 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Westway Terminal | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Employees (Other Development-Industrial) | 1405 | 1199 | 1241 | 1122 | 1156 | 1199 | 1241 | 1199 | 1241 | 1182 | 1216 | 1199 | 1241 | 1008 | 1008 |
| Industrial Solid Waste Generation Rate | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 |
| Solid Waste Generation (lb/day) (Other Development – Industrial) (employees x generation rate) | 12546.65 | 10707.07 | 11082.13 | 10019.46 | 10323.08 | 10707.07 | 11082.13 | 10707.07 | 11082.13 | 10555.26 | 10858.88 | 10707.07 | 11082.13 | 9001.44 | 9001.44 |
| Total Solid Waste Generation (lb/day) (Other Development) | 20820.91 | 24458.43 | 24917.49 | 23930.07 | 24301.69 | 24458.43 | 24917.49 | 20072.93 | 20531.99 | 24585.87 | 24957.49 | 24458.43 | 24917.49 | 22070.08 | 22070.08 |
| Total Solid Waste Generation (Entire Development) (lb/day) | 43292.4 | 50714.65 | 52191.48 | 49657.93 | 50959.88 | 50714.65 | 52191.48 | 41943.65 | 43420.48 | 50969.53 | 52271.48 | 50714.65 | 52191.48 | 45937.95 | 46496.66 |
| <i>Recycle Diversion Rate (Current)</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> | <i>62%</i> |
| <i>Recycle Diversion Rate (Goal Estimate)</i> | <i>62%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> | <i>70%</i> | <i>100%</i> |
| Solid Waste Generation Base on Current Recycle Diversion Rate | | | | | | | | | | | | | | | |
| Total Solid Waste to Sunshine Landfill (lbs/day) | 16451.11 | 19271.57 | 19832.76 | 18870.02 | 19364.76 | 19271.57 | 19832.76 | 15938.59 | 16499.78 | 19368.42 | 19863.16 | 19271.57 | 19832.76 | 17456.42 | 17668.73 |
| Total Solid Waste to Sunshine Landfill (tons/day) | 8.2256 | 9.6358 | 9.9164 | 9.4350 | 9.6824 | 9.6358 | 9.9164 | 7.9693 | 8.2499 | 9.6842 | 9.9316 | 9.6358 | 9.9164 | 8.7282 | 8.8344 |
| Solid Waste Generation Based on Goal Recycle Diversion Rate | | | | | | | | | | | | | | | |
| Total Solid Waste to Sunshine Landfill (lbs/day) | 16451.11 | 15,214.40 | 0.00 | 14,897.38 | 0.00 | 15,214.40 | 0.00 | 12583.10 | 0.00 | 15,290.86 | 0.00 | 15,214.40 | 0.00 | 13,781.39 | 0.00 |

| <i>Cruise Terminal Employees Per Ship</i> | <i>CEQA Baseline 2006</i> | <i>Proposed Project 2015</i> | <i>Proposed Project 2037</i> | <i>Alt 1 2015</i> | <i>Alt 1 2037</i> | <i>Alt 2 2015</i> | <i>Alt 2 2037</i> | <i>Alt 3 2015</i> | <i>Alt 3 2037</i> | <i>Alt 4 2015</i> | <i>Alt 4 2037</i> | <i>Alt 5 (No Federal Action) 2015</i> | <i>Alt 5 (No Federal Action) 2037</i> | <i>Alt 6 2015</i> | <i>Alt 6 2037</i> |
|---|---------------------------|------------------------------|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------------|---------------------------------------|-------------------|-------------------|
| Total Solid Waste to Sunshine Landfill (tons/day) | 8.2256 | 7.6072 | 0.00 | 7.4487 | 0.00 | 7.6072 | 0.00 | 6.2915 | 0.00 | 7.6454 | 0.00 | 7.6072 | 0.00 | 6.8907 | 0.00 |
| Sunshine Permitted Throughput (tons/day)(b) ¹ | 6,600 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 |
| Project Solid Waste % Sunshine Permitted Throughput (Current Recycle Diversion Rate) | .12% | .08% | .08% | .08% | .08% | .08% | .08% | .07% | .07% | .08% | .08% | .08% | .08% | .07% | .07% |
| Project Solid Waste % Sunshine Permitted Throughput (Goal Recycle Diversion Rate) | .12% | .06% | 0% | .06% | 0% | .06% | 0% | .05% | 0% | .06% | 0% | .06% | 0% | .06% | 0% |

¹ In June of 2008, Sunshine Canyon SLF became Sunshine Canyon City/County Landfill and was extended to accept 12,100 tons per day. However, because the proposed Project's baseline year is 2006, the permitted throughput to the landfill will remain at 6,600 tons per day for the baseline. Although the proposed project would create more waste than baseline estimates, due to the increase in permitted throughput at the new Sunshine Canyon City/County Landfill, the percentage of the permitted tonnage being sent to the landfill will be lower for the proposed Project and all the alternatives compared to the baseline estimate.

| | <i>CEQA Baseline 2006</i> | <i>Proposed Project 2015</i> | <i>Proposed Project 2037</i> | <i>Alt 1 2015</i> | <i>Alt 1 2037</i> | <i>Alt 2 2015</i> | <i>Alt 2 2037</i> | <i>Alt 3 2015</i> | <i>Alt 3 2037</i> | <i>Alt 4 2015</i> | <i>Alt 4 2037</i> | <i>Alt 5 (No Federal Action) 2015</i> | <i>Alt 5 (No Federal Action) 2037</i> | <i>Alt 6 2015</i> | <i>Alt 6 2037</i> |
|---|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|-----------------------|-----------------------|
| Commercial Electricity Use | | | | | | | | | | | | | | | |
| Total Commercial (Million Square Feet) | 3.94 | 4.71 | 4.71 | 4.37 | 4.37 | 4.70 | 4.70 | 3.72 | 3.72 | 4.59 | 4.59 | 4.58 | 4.58 | 3.98 | 3.98 |
| Projected Electricity Demand KW hours/year (millions) | 57.95 | 69.25 | 69.25 | 64.27 | 64.27 | 69.03 | 69.03 | 54.64 | 54.65 | 67.50 | 67.50 | 67.34 | 67.34 | 58.52 | 58.52 |
| Cruise Ship Electricity Use | | | | | | | | | | | | | | | |
| Average Ship Size (Passengers) | 2235 | 2620 | 3934 | 2620 | 3934 | 2620 | 3934 | 2620 | 3934 | 2500 | 3300 | 2500 | 3300 | 2500 | 3300 |
| Annual Cruise Calls | 258 | 275 | 287 | 275 | 275 | 275 | 287 | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 275 |
| Average Electricity Usage Per Ship (KW hours/day) | 8000 | 8600 | 11000 | 8600 | 11000 | 8600 | 11000 | 8600 | 11000 | 8470 | 9800 | 8470 | 9800 | 8470 | 9800 |
| Projected Electricity Demand Cruise Ships (KW hours/year) (millions) | 2.06 | 2.37 | 3.16 | 2.37 | 3.03 | 2.37 | 3.16 | 2.37 | 3.03 | 2.33 | 2.70 | 2.33 | 2.70 | 2.33 | 2.70 |
| Waterfront Red Car Electricity Use¹ | | | | | | | | | | | | | | | |
| (1) Projected Electricity Use Waterfront Red Car (KW hours/year) | 62,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 550,000 | 62,000 | 62,000 |
| (2) Project Electricity Use Waterfront Red Car (KW hours/year) | 62,000 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 684,252 | 62,000 | 62,000 |
| Total Electricity Demand | | | | | | | | | | | | | | | |
| (1) Total Projected Electricity Demand (KW hours/years) (Millions) | 60.07 | 72.17 | 72.96 | 67.19 | 67.85 | 71.95 | 72.74 | 57.56 | 58.22 | 70.38 | 70.75 | 70.22 | 70.59 | 60.36 | 60.73 |
| (2) Total Projected Electricity Demand (KW hours/years) (Millions) | 60.07 | 72.30 | 73.09 | 67.32 | 67.98 | 72.08 | 72.87 | 57.69 | 58.15 | 70.51 | 70.88 | 70.35 | 70.72 | 60.36 | 60.73 |

¹ Due to a range of estimated Waterfront Red Car vehicle miles traveled (the higher estimate is due to the addition of vehicle miles travelled by the City Dock no. 1 Shuttle), a range of electricity consumption estimates will be presented to provide a conservative impact analysis.

| | <i>CEQA Baseline 2006</i> | <i>Proposed Project</i> | <i>Alternative 1</i> | <i>Alternative 2</i> | <i>Alternative 3</i> | <i>Alternative 4</i> | <i>Alternative 5 (No Federal Action)</i> | <i>Alternative 6</i> |
|--|-------------------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|--|----------------------|
| Total Commercial (million square feet) | 3.94 | 4.71 | 4.37 | 4.70 | 3.72 | 4.59 | 4.58 | 3.98 |
| Natural Gas Consumption Rate ¹ | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| Projected Natural Gas Demand (cubic feet/day) (millions) | 0.38 | 0.45 | 0.42 | 0.45 | 0.35 | 0.44 | 0.44 | 0.38 |
| Predicted Natural Gas Supply in 2015² | | | | | | | | |
| 2,624 MMcf/day | | | | | | | | |
| Predicted Natural Gas Supply in 2030 | | | | | | | | |
| 2,709 MMcf/day | | | | | | | | |
| Percent of supply used 2015 | 0.01% | 0.02% | 0.02% | 0.02% | 0.01% | .02% | .02% | .01% |
| Percent of supply used 2030 | 0.01% | 0.02% | 0.02% | 0.02% | 0.01% | .02% | .02% | .01% |

¹ Consumption factors derived from SCAQMD CEQA Air Quality Handbook, 1993.

² Many factors can affect the potential natural gas supply for California. These predictions have been created with the current information and statistical data available.

1 Table 3.13-1 describes the water demand that would be created by the proposed
2 Project. Table 3.13-2 shows the total wastewater that would be generated under all
3 conditions and the percent these generations would contribute to the existing flow
4 and to the TITP capacity.

5 Impacts related to solid waste generally involve the estimation of the project-related,
6 land use-based, solid waste generation compared to the capacity of the landfills
7 serving the proposed project area. The solid waste generated under baseline,
8 proposed Project, and alternatives conditions was determined using a generation
9 factor provided by LAHD. For cruise ship solid waste estimates, onshore solid waste
10 creation was estimated by a commercial conversion factor of 10.53 pounds per day
11 per employee, while offshore solid waste was estimated by a ratio of average
12 passenger to waste pallet per ship. For all other land uses, there were multiple
13 conversion factors:

- 14 ■ commercial: 10.53 pounds per day per employee, and
- 15 ■ industrial: 8.93 pounds per day per employee.

16 The percent contribution to the permitted daily throughputs of the Sunshine Canyon
17 Landfill, subtracted by the anticipated recycle diversion rate, was then determined
18 based on the solid waste generation, as shown in Table 3.13-3.

19 The determination of impacts on electricity and natural gas supplies depends on an
20 estimation of demand generated by the proposed project uses compared to
21 availability and capacity of existing supplies and the conveyance infrastructure, as
22 shown in Tables 3.13-4 and 3.13-5.

23 **3.13.4.1.3 Energy Conservation**

24 Appendix F of the 2008 CEQA guidelines states that EIRs are required to include a
25 discussion of the potential energy impacts of proposed projects, with particular
26 emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption
27 of energy. Furthermore, energy conservation implies that a project's cost
28 effectiveness be reviewed not only in dollars, but also in terms of energy
29 requirements. For many projects, lifetime costs may be determined more by energy
30 efficiency than by initial dollar costs.

31 **3.13.4.2 Thresholds of Significance**

32 The following significance criteria are based on the *L.A. CEQA Thresholds Guide*
33 (City of Los Angeles 2006) and other criteria applicable to Port projects. According
34 to the *L.A. CEQA Thresholds Guide*, project impacts on fire protection and law
35 enforcement services are determined based on several underlying factors, described
36 in further detail below that can affect the need for additional infrastructure to
37 maintain these public services. Although the *L.A. CEQA Thresholds Guide* does not
38 address thresholds of significance in regards to the Port Police and the USCG, these

1 law enforcement agencies serve the proposed Project and would potentially be
2 affected by proposed project activities. Accordingly, USCG and Port Police are
3 addressed in this discussion.

4 The following factors are used to determine significance for impacts on public
5 services:

6 **PS-1:** A project would have a significant impact if it would burden existing USCG,
7 LAPD, or Port Police staff levels and facilities such that the USCG, LAPD, or Port
8 Police would not be able to maintain an adequate level of service without additional
9 facilities construction that could cause significant environmental effects.

10 **PS-2:** A project would have a significant impact if it would require the addition of a
11 new fire station or the expansion, consolidation, or relocation of an existing facility to
12 maintain service.

13 The following factors are used to determine significance for impacts on public
14 utilities:

15 **PS-3:** A project would have a significant impact if it would require or result in the
16 construction or expansion of utility lines that would cause significant environmental
17 effects.

18 **PS-4:** A project would have a significant impact if it would exceed existing water
19 supply, wastewater, or landfill capacities.

20 **PS-5:** A project would have a significant impact if it would require new, offsite
21 energy supply and distribution infrastructure or capacity-enhancing alterations to
22 existing facilities that are not anticipated by adopted plans or programs.

23 **3.13.4.3 Impacts and Mitigation**

24 **3.13.4.3.1 Proposed Project**

25 **Impact PS-1: The proposed Project would not burden**
26 **existing USCG, LAPD, or Port Police staff levels and facilities**
27 **such that USCG, LAPD, or Port Police would not be able to**
28 **maintain an adequate level of service without requiring**
29 **construction of additional facilities that could cause**
30 **significant environmental impacts.**

31 At no time will construction of the proposed Project impact response times for
32 USCG, LAPD, or the Port Police. Project construction would require the use of one
33 or more sites for construction staging of equipment and materials, which would be
34 vulnerable to unauthorized trespassing or theft; however, private security provided by

1 the Port and LAPD, as needed, would protect against such risk. Furthermore, LAHD
2 will be required, pursuant to the Watch Manual, to coordinate with law enforcement
3 agencies, during construction of all roadway improvements, to establish emergency
4 vehicular access and ensure continuous law enforcement access to surrounding areas.

5 LAPD is not the primary police service provider in the Port area; it primarily
6 provides support to the Port Police under special circumstances. As such, LAPD
7 response times would not be affected by the proposed Project.

8 The proposed Project would not burden the Port Police such that they would not be
9 able to maintain their current level of service to the Port Area. Port Police do not
10 base staff levels on the amount of proposed commercial development or on the
11 anticipated population growth of a given area. Their staff numbers are based on the
12 current Homeland Security Data and levels of security at other ports of corresponding
13 size and activity. Response times are not estimated by the Port Police as a ratio of
14 measurement and are therefore not estimated for the proposed Project. The Port
15 Police maintains 24-hour land and water patrols. They also have Sea Marshals and
16 K-9 units that are dedicated to the cruise terminal when cruise ships are in port. Due
17 to constant patrol of land and water and the Port Police's expanding and constantly
18 updated resources, the proposed project area can be adequately served. (Kirwan pers.
19 comm. 2008.)

20 The USCG's ability to respond would not be affected by the proposed Project's
21 increase in cruise berths/terminals in the Outer Harbor, because all of the components
22 of the proposed Project are within areas that the USCG is currently able to respond to
23 adequately. The USCG has adequate personnel to serve the proposed Project.
24 Currently, the USCG has 360 personnel assigned to the local unit for the upcoming
25 year. These personnel numbers are based on USCG's multi-mission response goals,
26 which include maritime security tasks, merchant vessel inspections, as well as
27 responding to terrorist threats. (Peterson et al. 2006.) Because the proposed Project
28 does not change the baseline demands of how many personnel are needed within the
29 Port Area, and is it within the current USCG coverage area, USCG would not need to
30 increase number of personnel. However, the 11th District may add 8 to 10 personnel
31 in the coming year to aid in consistency during its annual transfer season. (Gooding
32 pers. comm. 2008.)

33 **CEQA Impact Determination**

34 The emergency response time for each public service provider in the proposed
35 project area is considered adequate. Although the Outer Harbor Cruise Terminal
36 operations would result in an increase in calls to the Port Police and/or LAPD,
37 provisions for security features mandated by the MTSA would reduce the demand for
38 law enforcement. The Port Police are adequately staffed with sworn personnel to
39 provide for the activities of the Port; their ability to provide for the Port is not
40 expected to change with increases in development. The proposed Project would be
41 located within the same operating distance of other facilities served by USCG; USCG
42 emergency response times would not increase. Additionally, the increase of 17
43 cruise vessel calls per year by 2015 and 29 vessels through 2037, over CEQA
44 baseline levels would not reduce available USCG resources or impact its ability to

1 adequately serve the area. Because the proposed Project would be constructed in
2 locations that USCG can adequately respond to, USCG would not have to add
3 additional response resources (Gooding pers. comm. 2008). Accordingly, the
4 proposed Project would not increase the demand for additional law enforcement
5 officers and/or facilities such that the USCG, LAPD, or Port Police would not be able
6 to maintain an adequate level of service without additional facilities. However,
7 project construction could have temporary impacts on emergency access to portions
8 of the proposed project area; these impacts would be significant.

9 Mitigation Measures

10 **MM PS-1. Coordinate with law enforcement agencies.** LAHD will be required,
11 pursuant to the Watch Manual, to coordinate with law enforcement agencies, during
12 construction of all roadway improvements, to establish emergency vehicular access and
13 ensure continuous law enforcement access to surrounding areas.

14 Residual Impacts

15 Impacts would be less than significant.

16 **NEPA Impact Determination**

17 The proposed Project would include new facilities subject to NEPA, including the
18 Outer Harbor cruise terminals, parking structure in the Inner Harbor, and waterfront
19 promenade areas; however, the associated increase in calls to the Port Police and
20 LAPD would not substantially impact existing levels of service during proposed
21 project construction due to the proposed Project's security features. Increases in
22 cruise berths and corresponding terminals would not put an increased burden on
23 current LAPD, USCG, or Port Police supplies or services. The proposed Project
24 would be located within the same operating distance of other facilities served by the
25 USCG and would therefore not increase emergency response times. Additionally, the
26 increase of 12 vessel calls per year, through 2037, over NEPA baseline levels would
27 not reduce available USCG resources or increase response times. Accordingly, the
28 proposed Project would not increase the demand for additional law enforcement
29 officers and/or facilities such that the USCG, LAPD, or Port Police would not be able
30 to maintain an adequate level of service without additional facilities, the construction
31 of which could cause significant environmental effects. However, project
32 construction could have temporary impacts on emergency access to portions of the
33 proposed project area; these impacts would be significant.

34 Mitigation Measures

35 Implement Mitigation Measure MM PS-1.

36 Residual Impacts

37 Impacts would be less than significant.

1 **Impact PS-2: The proposed Project would not require the**
2 **addition of a new fire station or the expansion,**
3 **consolidation, or relocation of an existing facility to maintain**
4 **service.**

5 The proposed Project would be designed and constructed to meet all applicable state
6 and local codes and ordinances to ensure adequate fire protection. Construction and
7 operation of the proposed Project starting in 2009 and carrying through 2037 would
8 not result in an increase of average emergency response times, and LAFD would be
9 able to accommodate project-related fire protection demands. At no time will project
10 construction impact LAFD response times to the area. However, prior to
11 construction activities LAHD would be required pursuant to the Watch Manual to
12 coordinate with LAFD during construction of all roadway improvements to establish
13 emergency vehicular access, ensuring continuous law enforcement access to surrounding
14 areas. LAFD and the Port discussed the need for more personnel or equipment due to
15 the increase in commercial activity, and it was established that no additions would be
16 necessary for the proposed Project. (LAHD pers. comm. 2008.)

17 **CEQA Impact Determination**

18 At no time will project construction impact response times to the area. However,
19 LAHD, in compliance with the Watch Manual, will establish emergency vehicular
20 access routes (Watch Manual 2006). LAHD coordinates with LAFD to review and
21 comment on proposed project features affecting emergency access. The proposed
22 Project would not increase the demand for fire services to a degree that would require
23 the addition of a new fire station or the expansion, consolidation, or relocation of an
24 existing facility to maintain service. However, project construction might
25 temporarily impact LAFD emergency access to portions of the proposed project area;
26 these impacts would be significant.

27 Mitigation Measures

28 Implement Mitigation Measure MM PS-1.

29 Residual Impacts

30 Impacts would be less than significant.

31 **NEPA Impact Determination**

32 The proposed Project would include water-dependent construction activities (i.e.,
33 dredging and filling) and new construction of cruise terminals, parking areas, and
34 waterfront promenade areas that would not be part of the NEPA baseline. Project
35 operations would not affect emergency response times, no existing fire lanes or
36 hydrants would be removed, and site access would be reviewed and approved by
37 LAFD as required by MM PS-1. The proposed Project would not increase the
38 demand for fire services to a degree that would require the addition of a new fire
39 station or the expansion, consolidation, or relocation of an existing facility to

1 maintain service. However, project construction might temporarily impact LAFD
2 emergency access to portions of the proposed project area; these impacts would be
3 significant.

4 Mitigation Measures

5 Implement Mitigation Measure MM PS-1.

6 Residual Impacts

7 Impacts would be less than significant.

8 **Impact PS-3: The proposed Project would not require or** 9 **result in the construction or expansion of utility lines that** 10 **would cause significant environmental effects.**

11 No new major utility lines or facilities would need to be constructed in the proposed
12 project area. However, the Promenade, Outer Harbor cruise terminals, and the Ports
13 O' Call could require upgrades or relocation of utility lines to accommodate the
14 planned development. All infrastructure improvements and connections would occur
15 within existing or proposed city streets, would comply with the City's municipal
16 code, and would be performed under permit by the City Bureau of Engineering
17 and/or LADWP.

18 **CEQA Impact Determination**

19 Proposed project construction and development may require upgrades and relocations
20 of utility lines to provide for and adjust to the development of additional cruise berths
21 in the Inner and Outer Harbors. However, these possible upgrades or relocations
22 would not cause significant environmental effects. LAHD would be required, pursuant
23 to the Watch Manual, to coordinate with law enforcement agencies during construction
24 of all roadway improvements. Additionally, during any construction, recycling efforts
25 would be implemented in order to limit the amount of waste created. The following
26 mitigation measures would ensure that impacts would be less than significant.

27 Mitigation Measures

28 Implement Mitigation Measure MM PS-1.

29 **MM PS-2: Recycle construction materials.** Demolition and/or excess construction
30 materials will be separated on site for reuse/recycling or proper disposal. During
31 grading and construction, separate bins for recycling of construction materials will be
32 provided on site.

33 Residual Impacts

34 Impacts would be less than significant.

1 **NEPA Impact Determination**

2 Proposed project construction activities subject to NEPA would not require the
3 removal and/or relocation of water supply distribution mains and sewer trunk lines
4 within the proposed project vicinity. Because public utilities would not be affected
5 by dredging and filling, adverse impacts associated with construction and/or
6 expansion of utility lines would not occur. Therefore, there would be no impacts
7 under NEPA.

8 Mitigation Measures

9 No mitigation is required.

10 Residual Impacts

11 No impacts would occur.

12 **Impact PS-4: The proposed Project has sufficient water**
13 **supplies available to serve the project from existing**
14 **entitlements and resources; it would not exceed wastewater**
15 **requirements, require new wastewater treatment facilities,**
16 **require new landfills, or exceed existing landfill capacities.**

17 The proposed Project would result in a water demand of approximately 229.90 mgd
18 per day, or 705.54 acre-feet per year, in 2037.

19 Proposed project activities would generate 0.34 mgd of wastewater, a 0.2% increase
20 from the baseline percentage going toward the TITP daily capacity.

21 Construction and demolition activities would generate debris that would require
22 disposal in a landfill. Construction and demolition materials would include asphalt,
23 concrete, building materials, and solids. Dredged material generated during
24 construction would be reused in the proposed Project as fill on Anchorage Road or
25 transported to the LAHD nonhazardous material upland disposal site. In the event
26 that unidentified hazardous materials are encountered during proposed roadway
27 improvements and/or project construction, recycling options would be explored.
28 However, if recycling is not an option, disposal of hazardous materials at a Class I
29 landfill would be based on facility and hazardous material requirements.

30 The proposed Project would generate approximately 25.4 tons of solid waste per
31 year. However, not all solid waste created by the proposed Project would be sent to
32 Sunshine Canyon City/County Landfill. The Bureau of Sanitation has a current
33 recycle diversion rate of 62%, with a goal of 70% by 2015 and 100% by 2030. With
34 the current recycle diversion rate of 62%, the amount of solid waste that would go the
35 landfill represents 0.08% of the permitted daily throughput of 12,100 tons⁵. If the

⁵ In June 2008, Sunshine Canyon SLF became Sunshine Canyon City/County Landfill and was extended from a 6,600 tons per day throughput to 12,100 tons per day. However, because the proposed Project's baseline year is

1 goal of 70% diversion is achieved by 2015, that amount would be reduced to 0.07%.
2 Finally, if the goal of 100% diversion is achieved by 2030, the amount of solid waste
3 sent to Sunshine Canyon City/County Landfill would be 0% for 2037. It is important
4 to note that these goals are optimistic but obtainable, and should be analyzed.

5 **CEQA Impact Determination**

6 The proposed Project would result in an increased water demand from the baseline
7 level of 486.80 acre-feet per year, of approximately 217.76 acre-feet per year in
8 2037. However, this increase in demand would not negatively impact future supply.
9 Preliminary discussions with LADWP indicate that a pending Water Supply
10 Assessment would confirm that adequate supplies exist to serve the proposed project.
11 In addition, coordination with LADWP would ensure that the increased demands
12 would be accommodated by existing infrastructure.

13 Proposed project-generated wastewater would constitute 1.1% of the TITP daily
14 capacity, which exceeds the baseline levels of 0.9%. However, because the TITP
15 currently operates at 55% capacity, these increases would be considered negligible.
16 The proposed Project would not exceed the capacity of the TITP or conveyance
17 system to accommodate anticipated increases. The minimal amount of increased
18 wastewater generated by proposed project construction and operations would not
19 exceed the 30-mgd capacity of the TITP or sewer trunk lines in the proposed project
20 area.

21 The amount of solid waste generated by construction activities would result in a
22 substantial contribution to the solid waste stream, possibly contributing to the
23 exceedance of solid waste facility capacities. Although hazardous materials could be
24 encountered and require disposal during construction activities, several contaminated
25 soil treatment and disposal options and Class I landfills are available for offsite
26 disposal, providing adequate capacity. The proposed project operations would
27 generate 9,256 tons of solid waste per year, or 1,356 tons above the 2006 baseline
28 level of 7,900 tons per year. At the current recycle diversion rate of 62%, this would
29 represent an increase to the permitted throughput at the Sunshine Canyon
30 City/County Landfill from 0.07% to 0.08%. However, if the recycling goals of 70%
31 diversion by 2015 and 100% diversion by 2030 are achieved, this percentage would
32 lower to 0.06% for 2015 and then 0% for 2037. The negligible increases in solid
33 waste that would be diverted to the Sunshine Canyon City/County Landfill are
34 considered less than significant. Additionally, proposed project operation would be
35 required to comply with all existing hazardous waste laws and regulations, including
36 the federal Resource Conservation and Recovery Act (RCRA) and Comprehensive
37 Environmental Response, Compensation, and Liability Act (CERCLA), and CCR
38 Title 22 and Title 26. The Sunshine Canyon City/County Landfill would be able to
39 accommodate the negligible increase in solid waste generated by proposed project
40 operations. Additionally, with the Puente Hills Intermodal Facility project and
41 anticipated recycle diversion rates for the area, solid waste removal and disposal

2006, the permitted throughput to the landfill remains at 6,600 tons per day for the baseline. Although the proposed Project would create more waste than baseline estimates, due to the increase in permitted throughput at the new Sunshine Canyon City/County Landfill, the percentage of the permitted tonnage being sent to the landfill would be lower for the proposed Project and all the alternatives compared to the baseline estimate.

1 would be adequately provided for in the proposed project area through 2037, and
2 there would no longer be an impact.

3 Therefore, impacts associated with exceeding the capacity of the existing water
4 supply and the TITP wastewater treatment facility would be less than significant.
5 However, because solid waste generated during construction activities is not
6 quantifiable and construction debris is one of the greatest individual contributors to
7 solid waste capacity, impacts associated with solid waste generation during
8 construction activities would be significant.

9 Mitigation Measures

10 Implementation of Mitigation Measures MM PS-2 through MM PS-5 would reduce
11 the amount of solid waste from project construction that would require transportation
12 to a landfill. To further reduce impacts on water demand and wastewater capacities,
13 LADWP has supplied water conservation measures that would be implemented for
14 the proposed Project.

15 **MM PS-3: Use materials with recycled content.** Materials with recycled content,
16 such as recycled steel from framing and recycled concrete and asphalt from roadway
17 construction, will be used in project construction. Wood chippers registered through
18 the California Air Resources Board's Portable Equipment Registration Program will
19 be used on site during construction, using wood from tree removal, not wood from
20 demolished structures, to further reduce excess wood for landscaping cover.

21 **MM PS-4: Comply with AB 939.** LAHD and Port tenants will implement a Solid
22 Waste Management Program including the following measures to achieve a 50%
23 reduction of current waste generation percentages by 2037 and ensure compliance
24 with the California Solid Waste Management Act (AB 939).

- 25 a. Provide space and/or bins for storage of recyclable materials on the project site.
26 All garbage and recycle bin storage space will be enclosed and plans will show
27 equal area availability for both garbage and recycle bins in storage spaces.
- 28 b. Establish a recyclable material pick-up area for commercial buildings.
- 29 c. Participate in a curbside recycling program to serve the new development.
- 30 d. Develop a plan for accessible collection of materials on a regular basis.
- 31 e. Develop source reduction measures that indicate the method and amount of
32 expected reduction.
- 33 f. Implement a program to purchase materials that have recycled content for project
34 construction and operation (e.g., lumber, plastic, office supplies).
- 35 g. Provide a resident-tenant/employee education pamphlet to be used in conjunction
36 with available Los Angeles County and federal source reduction educational
37 materials. The pamphlet will be provided to all commercial tenants by the
38 leasing/property management agency.

- 1 h. Include lease language requiring tenant participation in recycling/waste reduction
2 programs, including specification that janitorial contracts support recycling.

3 **MM PS-5: Water Conservation and Wastewater Reduction.** LAHD and Port
4 tenants will implement the following water conservation and wastewater reduction
5 measures to further reduce impacts on water demand and wastewater flows.

- 6 a. The landscape irrigation system will be designed, installed, and tested to provide
7 uniform irrigation coverage for each zone. Sprinkler head patterns will be
8 adjusted to minimize overspray onto walkways and streets. Each zone (sprinkler
9 valve) will water plants having similar watering needs (i.e., shrubs, flowers, and
10 turf will not be in the same watering zone). Automatic irrigation timers will be
11 set to water landscaping during early morning or late evening hours to reduce
12 water losses from evaporation. Irrigation run times will be adjusted for all zones
13 seasonally, reducing length and frequency of waterings in the cooler months (i.e.,
14 fall, winter, spring). Adjust sprinkler timer run time to avoid water runoff,
15 especially when irrigating sloped property. Sprinkler times will be reduced once
16 drought-tolerant plants have been established.
- 17 b. Drought-tolerant, low-water consuming plant varieties will be used to reduce
18 irrigation water consumption.
- 19 c. The availability of recycled water will be investigated as a source to irrigate large
20 landscaped areas.
- 21 d. Ultra-low-flush toilets, ultra-low-flush urinals, and water-saving showerheads
22 must be installed in both new construction and when remodeling. Low-flow
23 faucet aerators will be installed on all sink faucets.
- 24 e. Significant opportunities for water savings exist in air conditioning systems that
25 utilize evaporative cooling (i.e., employ cooling towers). LADWP will be
26 contacted for specific information of appropriate measures.
- 27 f. Recirculating or point-of-use hot water systems will be installed to reduce water
28 waste in long piping systems where water must be run for considerable period
29 before heated water reaches the outlet.

30 Residual Impacts

31 Impacts would be less than significant.

32 **NEPA Impact Determination**

33 The total water demand for the cruise ships and terminals at the Port would be 322.28
34 acre-feet per year in 2037. This is a 271.73 acre-feet per year increase above the
35 baseline demands of 50.55 acre-feet per year. This estimated water demand increase
36 is not considered significant and preliminary discussions with LADWP indicate that
37 the pending Water Supply Assessment would confirm that adequate supplies exist to
38 serve the project and that this increase in demand would not negatively impact future
39 supply. In addition, coordination with LADWP would ensure that any increased
40 demands would be accommodated by existing infrastructure.

1 Cruise ship and terminal wastewater would constitute 0.4% of the TITP daily
2 capacity under the proposed Project, a 0.2% increase from baseline levels. As the
3 TITP currently operates at 55% capacity, this amount would be considered
4 negligible. The proposed Project would not exceed the capacity of the TITP or
5 conveyance system to accommodate anticipated increases in wastewater demands
6 associated with the project operations.

7 The amount of solid waste generated by construction activities is not quantifiable but
8 would result in a substantial one-time contribution to the solid waste stream, possibly
9 contributing to the exceedance of solid waste facility capacities. Dredged material
10 generated during construction would be reused within the proposed project area as
11 fill during subsequent construction phases (i.e., on Anchorage Road) or transported to
12 the LAHD nonhazardous material upland disposal site. Hazardous waste landfill
13 capacity would not be substantially affected by the proposed Project. There are
14 multiple landfill sites in the vicinity that accept hazardous waste, such as
15 contaminated soil, sludge, industrial waste, asbestos, treated wood waste, etc. The
16 landfill sites accepting these types of hazardous waste include: Puente Hills Landfill,
17 Lancaster Landfill and Recycling, and Chiquita Canyon Sanitary Landfill. These
18 landfills would be available for offsite disposal, providing adequate capacity
19 (CIWMB 2008).

20 Cruise ship onshore and offshore solid waste would generate 323 tons of solid waste
21 per year for the interim year (2015) and 425 tons of solid waste per year for the build
22 out year of 2037. This is an increase of 129 tons compared to the 2006 baseline level
23 of 296 tons per year. At the current recycle diversion rate of 62%, this would
24 represent a small increase to the permitted throughput at the Sunshine Canyon
25 City/County Landfill from the baseline amounts. Furthermore, if the recycling goals
26 of 70% diversion by 2015 and 100% diversion by 2030 are achieved, this percentage
27 would be lower. The negligible increase in solid waste created by the cruise ships,
28 terminals, and promenade operations that would be diverted to the Sunshine Canyon
29 City/County Landfill is considered less than significant.

30 Impacts associated with exceeding the demand or capacity of the existing water
31 supply and the TITP would be less than significant. Solid waste generated during
32 proposed project operations would not exceed the capacity of the Sunshine Canyon
33 City/County Landfill and impacts would be less than significant. However, because
34 solid waste generated during construction activities is not quantifiable and
35 construction debris is one of the greatest individual contributors to solid waste
36 capacity, impacts associated with solid waste generation during construction
37 activities would be significant.

38 Mitigation Measures

39 Implement Mitigation Measures MM PS-2 through MM PS-5.

40 Residual Impacts

41 Impacts would be less than significant.

1 **Impact PS-5: The proposed Project would not require new,**
2 **offsite energy supply and distribution infrastructure, or**
3 **capacity-enhancing alterations to existing facilities that are**
4 **not anticipated by adopted plans or programs.**

5 Energy (diesel fuel and electricity) would be used during construction of the
6 proposed Project. Energy expenditures during construction would be short term in
7 duration, occurring periodically during each of the proposed project construction
8 phases. Construction would not result in substantial waste or inefficient use of
9 energy because programs such as the Green Terminal Program and the Construction
10 Recycling Program implement policies that make construction and development
11 projects more energy efficient. (LAHD Environmental Programs 2008.)
12 Additionally, construction of modern buildings and structures incorporates energy-
13 efficient designs that are mandated by current building codes. Currently, LAHD's
14 goal is for the Port of Los Angeles to be the most energy efficient port to date. To
15 accomplish this task, the LAHD has committed to design any new building over
16 7,500 square feet with a minimum LEED Silver certification. As such, energy
17 efficiency standards would be incorporated on various buildings to decrease energy
18 demands.

19 Electricity and natural gas demands at the proposed project site would be related to
20 commercial, cruise ship, and Waterfront Red Car Line uses. Commercial electricity
21 use is estimated by the total square footage, and the Waterfront Red Car Line's
22 estimated demand is 550,000 to 684,252 KWh per year (Smatlak pers. comm.
23 2008).⁶

24 The cruise ships that call in the Port would have an impact on the energy demands of
25 the proposed Project. On the basis of the number of ships calling at the Port of Los
26 Angeles that are currently AMP-ready, the percentage of all ships calling at the Inner
27 Harbor Cruise Terminal that would use AMP would be at minimum: 30% in 2009
28 and 80% in 2013 and thereafter; Outer Harbor Cruise Terminal minimum percentages
29 would be: 97% in 2013 and thereafter. Additionally, by 2013, all ships retrofitted
30 for AMP shall be required to use AMP while hoteling, with a compliance rate of
31 100%, with the exception of circumstances when an AMP-capable berth is
32 unavailable due to utilization by another AMP-capable ship. A new substation (next
33 to the existing substation) is planned outside of the proposed project area (Zambrano
34 pers. comm. 2008a) to support AMP and project-related energy demands as part of a
35 separate project.

36 The proposed Project would not generate demands for natural gas associated with
37 space and water heating that supersede available supply. The baseline percentage of
38 natural gas demand compared to the current supply available is 0.01%. The proposed
39 project would have a natural gas demand of 0.02% of the projected supply in 2015

⁶ Due to a range of estimates for Waterfront Red Car vehicle miles travelled (the higher estimate is due to the addition of vehicle miles travelled by the City Dock No. 1 Shuttle), a range of electricity consumption estimates will be presented to provide a conservative impact analysis.

1 and 2030.⁷ Due to current and future anticipated resources available, natural gas
2 demands past 2030 through the build out year of 2037 are not expected to increase to
3 an amount that would exceed availability. The minimal amount of increased demand
4 for natural gas, specifically a 0.01% increase, would be accommodated by the Gas
5 Company via the existing infrastructure located adjacent to and within the proposed
6 project site.

7 **CEQA Impact Determination**

8 Energy (diesel fuel and electricity) would be required to support proposed
9 construction activities. Energy demands during construction activities would be
10 short-term and temporary; they are not anticipated to result in substantial waste or
11 inefficient use of energy, because energy-efficiency and conservation strategies will
12 be implemented throughout all construction stages, as described above.

13 Project operations would generate demands for electricity associated with
14 commercial, Waterfront Red Car Line, and cruise ship uses. The total electricity use
15 for the proposed Project would be 72.96 to 73.09 million kWh per year in 2037,
16 12.89 to 13.02 million kWh per year more than the 2006 baseline demand (60.07
17 million kWh per year). The increased natural gas demand of 0.01% from baseline
18 demand would not supersede project natural gas supply. Additionally, POLA has
19 committed to design of new buildings over 7,500 square feet to be built with
20 minimum LEED Silver certification. As such, energy efficiency standards would be
21 incorporated on various buildings to decrease energy demands.

22 LADWP's IRP anticipates load growth and plans new generating capacity or demand
23 side management programs to meet load requirements for future customers.
24 Additionally, the proposed Project would incorporate energy conservation measures
25 in compliance with California's Building Code CCR Title 24 that requires energy
26 efficiency standards for new construction, including requirements for new buildings,
27 additions, alterations, and repairs to nonresidential buildings. Incorporation of these
28 design standards, as required by state law, would reduce wasteful energy
29 consumption. While incorporation of these design measures would reduce impacts
30 related to reducing energy consumption, impacts would remain significant.

31 **Mitigation Measures**

32 **MM PS-6: Employ energy conservation measures.** During the design process,
33 LAHD will consult with LADWP's Efficiency Solutions Business Group regarding
34 possible energy efficiency measures. LAHD and its tenants will incorporate
35 measures to meet or, if possible, exceed minimum efficiency standards for Title
36 XXIV of the California Code of Regulations, such as:

- 37 a. Built-in appliances, refrigerators, and space-conditioning equipment will exceed
38 the minimum efficiency levels mandated in the California Code of Regulations.

⁷ The 2008 California Gas Report is a 22-year analysis, ending at 2030. There is no natural gas demand data available for the build out year of 2037.

- 1 b. High-efficiency air conditioning will be installed that is controlled by a
2 computerized energy-management system in office and retail spaces and
3 provides the following:
- 4 □ a variable air-volume system that results in minimum energy consumption
5 and avoids hot water energy consumption for terminal reheat,
 - 6 □ a 100% outdoor air-economizer cycle to obtain free cooling in appropriate
7 climate zones during dry climatic periods,
 - 8 □ sequentially staged operation of air-conditioning equipment in accordance
9 with building demands,
 - 10 □ the isolation of air conditioning to any selected floor or floors, and
 - 11 □ considers the applicability of the use of thermal energy storage to handle
12 cooling loads.
- 13 c. Ventilation air will be cascaded from high-priority areas before being exhausted,
14 thereby decreasing the volume of ventilation air required. For example, air could
15 be cascaded from occupied space to corridors and then to mechanical spaces
16 before being exhausted.
- 17 d. Lighting system heat will be recycled for space heating during cool weather.
18 While exhaust lighting-system heat will be recycled from the buildings, via
19 ceiling plenums, to reduce cooling loads in warm weather.
- 20 e. Low and medium static-pressure terminal units will be installed, as well as
21 ductwork to reduce energy consumption by air-distribution systems.
- 22 f. Buildings must be well sealed to prevent outside air from infiltrating and
23 increasing interior space-conditioning loads. Where applicable, design building
24 entrances with vestibules to restrict infiltration of unconditioned air and
25 exhausting of conditioned air.
- 26 g. A performance check of the installed space-conditioning system will be
27 completed by the developer/installer prior to issuance of the certificate of
28 occupancy to ensure that energy-efficiency measures incorporated into the
29 proposed Project operate as designed.
- 30 h. Exterior walls will be finished with light-colored materials and high-emissivity
31 characteristics to reduce cooling loads. Interior walls will be finished with light-
32 colored materials to reflect more light and, thus increase light efficiency.
- 33 i. White reflective material will be used for roofing meeting California standards
34 for reflectivity and emissivity to reject heat.
- 35 j. Thermal insulation that exceeds requirements established by the California Code
36 of Regulations will be installed in walls and ceilings.
- 37 k. Window systems will be designed to reduce thermal gain and loss, thus reducing
38 cooling loads during warm weather and heating loads during cool weather.
- 39 l. Heat-rejecting window treatments will be installed, such as films, blinds,
40 draperies, or others on appropriate exposures.

- 1 m. Fluorescent and high-intensity discharge lamps that give the highest light output
2 per watt of electricity consumed will be installed wherever possible, including all
3 street and parking lot lighting, to reduce electricity consumption. Reflectors will
4 be used to direct maximum levels of light to work surfaces.
- 5 n. Photosensitive controls and dimmable electronic ballasts will be installed to
6 maximize the use of natural daylight available and reduce artificial lighting load.
- 7 o. Occupant-controlled light switches and thermostats to permit individual
8 adjustment of lighting, heating, and cooling will be installed to avoid
9 unnecessary energy consumption.
- 10 p. Time-controlled interior and exterior public area light will be installed, limited to
11 that which is necessary for safety and security.
- 12 q. Mechanical systems (HVAC and lighting) in the building will be controlled with
13 timing systems to prevent accidental or inappropriate conditioning or lighting of
14 unoccupied space.
- 15 r. Windowless walls or passive solar inset of windows will be incorporated, where
16 feasible, in building design.
- 17 s. Project will focus pedestrian activity within sheltered outdoor areas.

18 Residual Impacts

19 Impacts would be less than significant.

20 **NEPA Impact Determination**

21 The proposed Project would include construction activities subject to NEPA that
22 would affect energy demands. Although terminal and promenade construction would
23 require additional energy usage, these demands would be short-term and temporary,
24 and they are not anticipated to result in the substantial waste or inefficient use of
25 energy. The proposed Project would provide new energy distribution infrastructure
26 required to support cruise ship terminal and promenade operations; it would not
27 exceed existing supplies and/or result in the need for major new facilities.

28 Under the proposed Project, cruise ships and cruise terminals would have an
29 electricity demand of 8.95 million kWh per year in 2015 and 9.74 million kWh per
30 year in 2037. This is an increase from the baseline (5.71 million kWh per year) by
31 3.24 million kWh in 2015 and 4.03 million kWh in 2037. However, these increases
32 have been anticipated in LADWP's IRP, which estimates load growth and plans new
33 generating capacity or demand side management programs to meet load requirements
34 for future customers. While incorporation of the energy consumption measures
35 referenced above would reduce impacts, impacts would remain significant.

36 Mitigation Measures

37 Implement Mitigation Measure MM PS-6.

1 Residual Impacts

2 Impacts would be less than significant.

3 **3.13.4.3.2 Alternative 1—Alternative Development Scenario 1**

4 Alternative 1 differs from the proposed Project with regard to utilities and public
5 services in that it would:

- 6 ■ demolish Berth 91 terminal and rebuild it at 200,000-square-foot to serve the
7 Inner Harbor;
- 8 ■ construct and operate one new 1,250-foot-long berth in the Outer Harbor at
9 Berths 45–47, as opposed to two at Berths 45–47 and Berths 49–50;
- 10 ■ construct and operate one 100,000-square-foot Outer Harbor Cruise Terminal, as
11 opposed to two terminals totaling 200,000-square-feet;
- 12 ■ reduce Harbor Boulevard to a one-lane street southbound, with a northbound
13 roundabout at 13th Street to prevent northbound traffic; and
- 14 ■ reduce cruise ship parking by 875 spaces.

15 **Impact PS-1: Alternative 1 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts.**

21 Alternative 1 has one less cruise berth and terminal than the proposed Project, which
22 would result in fewer parking spaces than under the proposed Project. This reduction
23 in cruise berth, terminal, and parking would suggest that less security would need to
24 be provided by USCG, LAPD, and Port Police than under the proposed Project.

25 **CEQA Impact Determination**

26 Alternative 1 would not increase the demand for additional law enforcement officers
27 and/or facilities such that the USCG, LAPD, or Port Police would not be able to
28 maintain an adequate level of service without additional facilities. However, project
29 construction could have temporary impacts on emergency access to portions of the
30 proposed project area; these impacts would be significant.

31 Mitigation Measures

32 Implement Mitigation Measure MM PS-1.

1 Residual Impacts

2 Impacts would be less than significant.

3 **NEPA Impact Determination**

4 The decrease in cruise berths under Alternative 1 would require less in-water and
5 wharf construction than under the proposed Project, and eliminates one Outer Harbor
6 cruise terminal. This would reduce the level of impact estimated under the proposed
7 Project. However, as with the proposed Project, construction of Alternative 1 could
8 have temporary impacts on emergency vehicle access to the proposed project area;
9 these impacts would be significant.

10 Mitigation Measures

11 Implement Mitigation Measure MM PS-1.

12 Residual Impacts

13 Impacts would be less than significant.

14 **Impact PS-2: Alternative 1 would not require the addition of**
15 **a new fire station or the expansion, consolidation, or**
16 **relocation of an existing facility to maintain service.**

17 One less cruise berth is proposed under Alternative 1 than under the proposed
18 Project. With one less berth and terminal, there would be fewer cruise ship parking
19 spaces required than under the proposed Project. This decrease in terminal and
20 parking area would suggest that the emergency demands on LAFD under Alternative
21 1 would be less than under the proposed Project.

22 **CEQA Impact Determination**

23 Construction of Alternative 1 could have temporary impacts on emergency vehicle
24 access to the proposed project area; these impacts would be significant.

25 Mitigation Measures

26 Implement Mitigation Measure MM PS-1.

27 Residual Impacts

28 Impacts would be less than significant.

29 **NEPA Impact Determination**

30 Construction of Alternative 1 could have temporary impacts on emergency vehicle
31 access to the proposed project area; these impacts would be significant.

1 Mitigation Measures

2 Implement Mitigation Measure MM PS-1.

3 Residual Impacts

4 Impacts would be less than significant.

5 **Impact PS-3: Alternative 1 would not require or result in the**
6 **construction or expansion of utility lines that would cause**
7 **significant environmental effects.**

8 Impacts on utility lines, under Alternative 1, would be similar to under the proposed
9 Project. Construction and development may require upgrades and relocations of
10 utility lines to provide for and adjust to the development of additional cruise berths in
11 the Inner and Outer Harbors.

12 **CEQA Impact Determination**

13 Alternative 1's utility upgrades and relocations could have minor impacts on traffic
14 flow and circulation. However, these possible upgrades or relocations would not
15 cause significant environmental effects. LAHD would be required, pursuant to the
16 Watch Manual, to coordinate with law enforcement agencies during construction of all
17 roadway improvements. Additionally, during any construction, recycling efforts would
18 be implemented in order to limit the amount of waste created. The following mitigation
19 measures would ensure that impacts would be less than significant.

20 Mitigation Measures

21 Implement Mitigation Measures MM PS-1 and MM PS-2.

22 Residual Impacts

23 Impacts would be less than significant.

24 **NEPA Impact Determination**

25 Impacts would be similar to those identified under the proposed Project. NEPA
26 project elements would not require the removal and/or relocation of water supply
27 distribution mains and sewer trunk lines in the proposed project vicinity. There
28 would be no impacts under NEPA.

29 Mitigation Measures

30 No mitigation is required.

1 Residual Impacts

2 No impacts would occur.

3 **Impact PS-4: Alternative 1 has sufficient water supplies**
4 **available to serve the project from existing entitlements and**
5 **resources; it would not exceed wastewater requirements,**
6 **require new wastewater treatment facilities, require new**
7 **landfills, or exceed existing landfill capacities.**

8 The amount of water required, wastewater produced, and construction waste
9 generated under Alternative 1 would be less than that for the proposed Project. As
10 shown in Table 3.13-1, water demand under Alternative 1 would be approximately
11 690.04 acre-feet per year in 2037, 15.50 acre-feet per year less than under the
12 proposed Project. Alternative 1 would generate 12,486 gpd less wastewater than the
13 proposed Project. Wastewater generated by operations under Alternative 1 would
14 constitute 1.1% of the daily capacity; this exceeds the baseline contribution of 0.9%
15 and is the same as under the proposed Project (Table 3.13-2). Although the TITP
16 currently operates at 55% capacity, this increase would be considered negligible. Solid
17 waste percentages for Alternative 1 going to Sunshine Canyon City/County Landfill
18 in 2015 and for the build out year of 2037 would be the same as the proposed Project.

19 **CEQA Impact Determination**

20 Impacts related to the amount of water required, wastewater produced, and
21 construction waste generated under Alternative 1 would be less than that for the
22 proposed Project but would remain significant.

23 Mitigation Measures

24 Implement Mitigation Measures MM PS-2 through MM PS-5.

25 Residual Impacts

26 Impacts would be less than significant.

27 **NEPA Impact Determination**

28 Impacts related to the amount of water required, wastewater produced, and
29 construction waste generated under Alternative 1 would be less than that for the
30 proposed Project but would remain significant.

31 Mitigation Measures

32 Implement Mitigation Measures MM PS-2 through MM PS-5.

1 Residual Impacts

2 Impacts would be less than significant.

3 **Impact PS-5: Alternative 1 would not require new, offsite**
4 **energy supply and distribution infrastructure, or capacity-**
5 **enhancing alterations to existing facilities that are not**
6 **anticipated by adopted plans or programs.**

7 With elimination of the Outer Harbor Cruise Terminal, under Alternative 1, the
8 demand for electricity would be reduced by 5.11 million kWh per year for 2037
9 compared to under the proposed Project. Natural gas demands would also be reduced
10 with the reduction in commercial and industrial square footage, under Alternative 1.
11 Alternative 1 would not require new, offsite energy supply facilities and distribution
12 infrastructure or capacity-enhancing alterations to existing facilities. Cruise ships and
13 cruise terminals, under Alternative 1, would have an electricity demand of 6.09
14 million kWh per year in 2015. With the increase in ship use of AMP while docked,
15 electricity demand is projected at 6.75 million kWh per year for 2037, a decrease of
16 approximately 2.86 million kWh in 2015 and 2.99 million kWh in 2037, compared to
17 the proposed Project. The demand for electricity and natural gas is less under
18 Alternative 1 than under the proposed Project.

19 **CEQA Impact Determination**

20 While incorporation of the building design standards referenced above for the
21 proposed Project would reduce impacts, impacts would remain significant.

22 Mitigation Measures

23 Implement Mitigation Measure MM PS-6.

24 Residual Impacts

25 Impacts would be less than significant.

26 **NEPA Impact Determination**

27 Alternative 1 would include fewer project elements subject to NEPA than the
28 proposed Project. While incorporation of the building design standards referenced
29 above for the proposed Project would reduce impacts, impacts would remain
30 significant.

31 Mitigation Measures

32 Implement Mitigation Measure MM PS-6.

1 Residual Impacts

2 Impacts would be less than significant.

3 **3.13.4.3.3 Alternative 2—Alternative Development Scenario 2**

4 Alternative 2 differs from the proposed Project in regards to utilities and public
5 services in that Alternative 2 would:

- 6 ■ locate the parking for the Outer Harbor Terminal at the Outer Harbor instead of
7 shuttling passengers from the Inner Harbor, decreasing surface parking; and
8 ■ reduce Harbor Boulevard to one lane southbound, with a roundabout at 13th
9 Street to prevent northbound traffic along Harbor Boulevard, and constructing
10 the Crescent Street extension between Miner Street and Sampson Way.

11 **Impact PS-1: Alternative 2 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts.**

17 The reduction of roadway modifications and parking construction, under
18 Alternative 2, suggests that the security required by USCG, LAPD, and Port Police
19 would be less than that estimated under the proposed Project.

20 **CEQA Impact Determination**

21 Alternative 2 would not increase the demand for additional law enforcement officers
22 and/or facilities compared to the proposed Project such that the USCG, LAPD, or
23 Port Police would not be able to maintain an adequate level of service without
24 additional facilities. However, Alternative 2 construction could have temporary
25 impacts on emergency access to portions of the proposed project area; these impacts
26 would be significant.

27 Mitigation Measures

28 Implement Mitigation Measure MM PS-1.

29 Residual Impacts

30 Impacts would be less than significant.

1 **NEPA Impact Determination**

2 Alternative 2 would include construction of project elements subject to NEPA similar
3 to those described under the proposed Project. Although Alternative 2 would not
4 increase the demand for additional law enforcement officers and/or facilities such
5 that the USCG, LAPD, or Port Police would not be able to maintain an adequate level
6 of service without additional facilities, construction of Alternative 2 could have
7 temporary impacts on emergency vehicle access to the proposed project area; these
8 impacts would be significant.

9 Mitigation Measures

10 Implement Mitigation Measure MM PS-1.

11 Residual Impacts

12 Impacts would be less than significant.

13 **Impact PS-2: Alternative 2 would not require the addition of**
14 **a new fire station or the expansion, consolidation, or**
15 **relocation of an existing facility to maintain service.**

16 Alternative 2 would reduce Harbor Boulevard to one lane in each direction. Like the
17 proposed Project, Alternative 2 would be designed and constructed to meet all
18 applicable state and local codes and ordinances to ensure adequate fire protection and
19 access. Demand for LAFD officers and/or facilities would not increase under
20 Alternative 2, compared to the proposed Project.

21 **CEQA Impact Determination**

22 Construction of Alternative 2 could have temporary impacts on emergency vehicle
23 access to the proposed project area; these impacts would be significant.

24 Mitigation Measures

25 Implement Mitigation Measure MM PS-1.

26 Residual Impacts

27 Impacts would be less than significant.

28 **NEPA Impact Determination**

29 In-water construction activities under Alternative 2 would not differ from those under
30 the proposed Project. Alternative 2 operations would not affect emergency response
31 times or remove existing fire lanes or hydrants; site access would be reviewed by
32 LAFD. Alternative 2 would not increase the demand for fire services to a degree that
33 would require the addition of a new fire station or the expansion, consolidation, or

1 relocation of an existing facility to maintain service. However, construction of
2 Alternative 2 could have temporary impacts on LAFD emergency access to the
3 proposed project area; these impacts would be significant.

4 Mitigation Measures

5 Implement Mitigation Measure MM PS-1.

6 Residual Impacts

7 Impacts would be less than significant.

8 **Impact PS-3: Alternative 2 would not require or result in the** 9 **construction or expansion of utility lines that would cause** 10 **significant environmental effects.**

11 As under the proposed Project, construction of Alternative 2 may require upgrades
12 and relocations of utility lines to provide for and adjust to additional cruise berths in
13 the Inner and Outer Harbors.

14 **CEQA Impact Determination**

15 Alternative 2's utility upgrades and relocations could have negative impacts on traffic
16 flow and circulation. However, these possible upgrades or relocations would not
17 cause significant environmental effects. LAHD would be required, pursuant to the
18 Watch Manual, to coordinate with law enforcement agencies during construction of all
19 roadway improvements. Additionally, during any construction, recycling efforts would
20 be implemented in order to limit the amount of waste created. The following mitigation
21 measures would ensure that impacts would be less than significant.

22 Mitigation Measures

23 Implement Mitigation Measures MM PS-1 and MM PS-2.

24 Residual Impacts

25 Impacts would be less than significant.

26 **NEPA Impact Determination**

27 Alternative 2 in-water construction activities would be the same as under the
28 proposed Project and would not require the removal and/or relocation of water supply
29 distribution mains and sewer trunk lines in the proposed project vicinity. No impacts
30 would occur.

31 Mitigation Measures

32 No mitigation is required.

1 Residual Impacts

2 No impacts would occur.

3 **Impact PS-4: Alternative 2 has sufficient water supplies**
4 **available to serve the project from existing entitlements and**
5 **resources; it would not exceed wastewater requirements,**
6 **require new wastewater treatment facilities, require new**
7 **landfills, or exceed existing landfill capacities.**

8 Alternative 2 and the proposed Project are very similar in design and operation, as
9 such, under Alternative 2 wastewater would remain at an approximate 1.1% increase
10 on TITP capacity, not exceeding the capacity of the TITP or conveyance system.
11 Water demand would not be more than what has been estimated under the proposed
12 Project. The percentage of solid waste going to Sunshine Canyon City/County
13 Landfill in 2015 and 2037 would be the same as the proposed Project.

14 **CEQA Impact Determination**

15 Impacts would be the same as under the proposed Project and would be significant.

16 Mitigation Measures

17 Implement Mitigation Measures MM PS-2 through MM PS-5.

18 Residual Impacts

19 Impacts would be less than significant.

20 **NEPA Impact Determination**

21 Impacts would be the same as under the proposed Project and would be significant.

22 Mitigation Measures

23 Implement Mitigation Measures MM PS-2 through MM PS-5.

24 Residual Impacts

25 Impacts would be less than significant.

1 **Impact PS-5: Alternative 2 would not require new, offsite**
2 **energy supply and distribution infrastructure, or capacity-**
3 **enhancing alterations to existing facilities that are not**
4 **anticipated by adopted plans or programs.**

5 The decrease in surface parking under Alternative 2, would reduce electricity
6 demands compared to the proposed Project. Alternative 2 electricity demands are
7 0.22 million kWh per year less than the proposed Project in 2037. Furthermore, the
8 decrease in square footage reduces estimated natural gas demands compared to the
9 proposed Project.

10 **CEQA Impact Determination**

11 While incorporation of the building design standards referenced above for the
12 proposed Project would reduce impacts, impacts would remain significant.

13 Mitigation Measures

14 Implement Mitigation Measure MM PS-6.

15 Residual Impacts

16 Impacts would be less than significant.

17 **NEPA Impact Determination**

18 In-water construction activities for Alternative 2 would not differ from that of the
19 proposed Project. While incorporation of the building design standards referenced
20 above for the proposed Project would reduce impacts, impacts would remain
21 significant.

22 Mitigation Measures

23 Implement Mitigation Measure MM PS-6.

24 Residual Impacts

25 Impacts would be less than significant.

26 **3.13.4.3.4 Alternative 3—Alternative Development Scenario 3**
27 **(Reduced Project)**

28 Alternative 3 differs from the proposed Project in regards to utilities and public
29 services in the following ways:

- 1 ■ A 100,000-square-foot terminal would be constructed in the Outer Harbor
2 (reduced from 200,000 square feet under the proposed Project), providing for one
3 new cruise berth (a reduction by one berth as compared to the proposed Project).
- 4 ■ Inner Harbor parking located at Berths 91–93 would consist of 3,325 spaces.
5 These spaces would be located in a new 3-level structure covering 9.1 acres and
6 at surface parking areas at the Cruise Center (compared to 4,600 spaces under the
7 proposed Project).
- 8 ■ Total development for Alternative 3 at Ports O’Call would be 187,500 square
9 feet (compared to 375,000 square feet under the proposed Project).

10 **Impact PS-1: Alternative 3 would not burden existing USCG,**
11 **LAPD, or Port Police staff levels and facilities such that**
12 **USCG, LAPD, or Port Police would not be able to maintain an**
13 **adequate level of service without requiring construction of**
14 **additional facilities that could cause significant**
15 **environmental impacts.**

16 The commercial square footage of Alternative 3 is approximately 22 percent less than
17 under the proposed Project. This reduction in development of cruise ship berths,
18 parking, and Ports O’ Call space suggests that the security required from LAPD and
19 the Port Police under Alternative 3 would be less than under the proposed Project.

20 **CEQA Impact Determination**

21 Vessel calls per year would be less than the proposed Project; as such, demand on
22 USCG resources and response times would be slightly reduced. However,
23 construction of Alternative 3 could have temporary impacts on emergency vehicle
24 access to the proposed project area; these impacts would be significant.

25 Mitigation Measures

26 Implement Mitigation Measure MM PS-1.

27 Residual Impacts

28 Impacts would be less than significant.

29 **NEPA Impact Determination**

30 Alternative 3 would include less construction subject to NEPA than the proposed
31 Project. Although it would not increase the demand for additional law enforcement
32 officers and/or facilities such that the USCG, LAPD, or Port Police would not be able
33 to maintain an adequate level of service without additional facilities, construction of
34 Alternative 3 could have temporary impacts on emergency vehicle access to the
35 proposed project area; these impacts would be significant.

1 Mitigation Measures

2 Implement Mitigation Measure MM PS-1.

3 Residual Impacts

4 Impacts would be less than significant.

5 **Impact PS-2: Alternative 3 would not require the addition of**
6 **a new fire station or the expansion, consolidation, or**
7 **relocation of an existing facility to maintain service.**

8 Alternative 3 would be designed and constructed to meet all applicable state and local
9 codes and ordinances to ensure adequate fire protection. The Ports O' Call
10 development would be reduced by 150,000 square feet compared to the proposed
11 Project, and one Outer Harbor terminal building and berth would be eliminated under
12 Alternative 3, lessening the demand for fire facility enhancement or construction.
13 However

14 **CEQA Impact Determination**

15 Construction for Alternative 3 could have temporary impacts on emergency vehicle
16 access to the proposed project area; these impacts would be significant.

17 Mitigation Measures

18 Implement Mitigation Measure MM PS-1.

19 Residual Impacts

20 Impacts would be less than significant.

21 **NEPA Impact Determination**

22 The elimination of the second cruise berth in the Outer Harbor, under Alternative 3,
23 would decrease the amount of construction subject to NEPA compared to the
24 proposed Project. This reduced development would result in decrease in fire protection
25 demands, compared to the proposed Project. However, construction of Alternative 3
26 could have temporary impacts on emergency vehicle access to the proposed project
27 area; these impacts would be significant.

28 Mitigation Measures

29 Implement Mitigation Measure MM PS-1.

30 Residual Impacts

31 Impacts would be less than significant.

1 **Impact PS-3: Alternative 3 would not require or result in the**
2 **construction or expansion of utility lines that would cause**
3 **significant environmental effects.**

4 Impacts on utility lines under Alternative 3 would be the same as identified under the
5 proposed Project.

6 **CEQA Impact Determination**

7 Alternative 3's utility upgrades and relocations could have negative impacts on traffic
8 flow and circulation. However, these possible upgrades or relocations would not
9 cause significant environmental effects. LAHD would be required, pursuant to the
10 Watch Manual, to coordinate with law enforcement agencies during construction of all
11 roadway improvements. Additionally, during any construction, recycling efforts would
12 be implemented in order to limit the amount of waste created. The following mitigation
13 measures would ensure that impacts would be less than significant.

14 Mitigation Measures

15 Implement Mitigation Measures MM PS-1 and MM PS-2.

16 Residual Impacts

17 Impacts would be less than significant.

18 **NEPA Impact Determination**

19 The reduction of construction subject to NEPA, under Alternative 3 compared to the
20 proposed Project, would reduce impacts on utility demands. Because Alternative 3 is
21 adjacent to the harbor, construction and/or expansion of offsite stormwater drainage
22 facilities would not be required. Public utilities would not be affected by construction
23 activities in the in-water project area, and adverse impacts associated with construction
24 and/or expansion of water, wastewater, and storm drain infrastructure would not occur.
25 Therefore, there would be no impacts.

26 Mitigation Measures

27 No mitigation is required.

28 Residual Impacts

29 No impacts would occur.

1 **Impact PS-4: Alternative 3 has sufficient water supplies**
2 **available to serve the project from existing entitlements and**
3 **resources; it would not exceed wastewater requirements,**
4 **require new wastewater treatment facilities, require new**
5 **landfills, or exceed existing landfill capacities.**

6 The reduction in cruise berths and surface parking, under Alternative 3, would result
7 in an approximate 0.9% increase of wastewater flow on TITP capacity, 0.2% less
8 than the proposed Project and equal to the baseline percentage. Compared to the
9 proposed Project, Alternative 3 would decrease flow to the TITP and, therefore,
10 would not exceed its capacity or conveyance system. Total water demand under
11 Alternative 3 would be 600.95 acre-feet per year in 2037, 104.59 acre-feet per year
12 less than under the proposed Project. As such, Alternative 3 impacts would be lower
13 than under the proposed Project. Under Alternative 3, in 2015, solid waste would
14 contribute 0.07% with the current recycle diversion rate of 62% or 0.05% with the
15 estimated goal diversion rate of 70%. In 2037, solid waste would contribute 0.07%
16 with the current recycle diversion rate of 62% or 0% with the estimated goal
17 diversion rate of 100%. This solid waste throughput to Sunshine Canyon City/County
18 Landfill is less than estimated for the proposed Project.

19 **CEQA Impact Determination**

20 Impacts on existing facility demand and capacity for water, wastewater, and solid
21 waste would be less than significant. However, construction debris impacts would be
22 significant.

23 Mitigation Measures

24 Implement Mitigation Measures MM PS-2 through MM PS-5.

25 Residual Impacts

26 Impacts would be less than significant.

27 **NEPA Impact Determination**

28 Impacts on existing facility demand and capacity for water, wastewater, and solid
29 waste would be less than significant. However, construction debris impacts would be
30 significant.

31 Mitigation Measures

32 Implement Mitigation Measures MM PS-2 through MM PS-5.

33 Residual Impacts

34 Impacts would be less than significant.

1 **Impact PS-5: Alternative 3 would not require new, offsite**
2 **energy supply and distribution infrastructure, or capacity-**
3 **enhancing alterations to existing facilities that are not**
4 **anticipated by adopted plans or programs.**

5 The decrease in surface parking, cruise berths, and Ports O' Call development, under
6 Alternative 3, would result in reduced impacts on electricity and natural gas
7 demands, compared to the proposed Project. The decrease in surface parking would
8 reduce electricity use by 14.74 million kWh per year for 2037 compared to the
9 proposed Project. Under Alternative 3, cruise ships and cruise terminals would have
10 an electricity demand of 7.48 million kWh per year in 2015 and 8.14 million kWh per
11 year in 2037 due to increased ship use of AMP. This is a decrease of 1.47 million
12 kWh in 2015 and 1.60 million kWh in 2037, compared to the proposed Project.
13 Additionally, with the substantial decrease in commercial square feet, Alternative 3
14 natural gas demands would be significantly lower than proposed Project estimates.

15 **CEQA Impact Determination**

16 While incorporation of the building design standards referenced above for the
17 proposed Project would reduce impacts, impacts would remain significant.

18 Mitigation Measures

19 Implement Mitigation Measure MM PS-6.

20 Residual Impacts

21 Impacts would be less than significant.

22 **NEPA Impact Determination**

23 Alternative 3 involves less construction subject to NEPA compared to the proposed
24 Project. While incorporation of the building design standards referenced above for
25 the proposed Project would reduce impacts, impacts would remain significant.

26 Mitigation Measures

27 Implement Mitigation Measure MM PS-6.

28 Residual Impacts

29 Impacts would be less than significant.

30 **3.13.4.3.5 Alternative 4—Alternative Development Scenario 4**

31 Alternative 4 differs from the proposed Project in regards to utilities and public
32 services in the following ways.

- 1 ■ The North Harbor would not be constructed under this alternative.
- 2 ■ Alternative 4 would not develop the two berths in the Outer Harbor. The existing
- 3 terminal at Berth 91 would be demolished, and a new 200,000-square-foot
- 4 terminal to serve Berths 91 and 87 would be developed.
- 5 ■ The Inner Harbor parking would be located at Berths 91–93 and would consist of
- 6 3,525 spaces. These spaces would be located in a new 3-level structure covering
- 7 4.3 acres (reduced in size compared to the proposed Project) and at surface
- 8 parking areas at the Cruise Center. The structure and surface parking would be
- 9 dedicated to the Catalina Express Terminal and the Inner Harbor Cruise
- 10 Terminals. No Outer Harbor Cruise Terminal parking would be included in
- 11 Alternative 4.

12 **Impact PS-1: Alternative 4 would not burden existing USCG,**

13 **LAPD, or Port Police staff levels and facilities such that**

14 **USCG, LAPD, or Port Police would not be able to maintain an**

15 **adequate level of service without requiring construction of**

16 **additional facilities that could cause significant**

17 **environmental impacts.**

18 The reduction in cruise ship berths and development under Alternative 4 compared to

19 the proposed Project, suggests a corresponding reduction of security demands.

20 Although surface parking would increase, it would not impact Port Police or security

21 demand over what has already been assessed for the proposed Project. With the

22 planned growth in Port Police staff levels as well as the construction of an additional

23 station and facility expansion projects, the Port Police would likely supply adequate

24 security for any increased security demand. Vessel calls per year would reduce by

25 2037 compared to the proposed Project, and as stated for the proposed Project, would

26 not reduce available USCG resources or increase response times.

27 **CEQA Impact Determination**

28 Alternative 4 would have a lesser affect on the demand for law enforcement officers

29 and/or facilities than the proposed Project. Alternative 4 construction activities could

30 have temporary impacts on emergency vehicle access to the proposed project area;

31 these impacts would be significant.

32 Mitigation Measures

33 Implement Mitigation Measure MM PS-1.

34 Residual Impacts

35 Impacts would be less than significant.

1 **NEPA Impact Determination**

2 Reduced construction subject to NEPA under Alternative 4 compared to under the
3 proposed Project would likely correspond to reduced security demands. As with the
4 proposed Project, Alternative 4 construction activities could have temporary impacts
5 on emergency vehicle access to the proposed project area; these impacts would be
6 significant.

7 Mitigation Measures

8 Implement Mitigation Measure MM PS-1.

9 Residual Impacts

10 Impacts would be less than significant.

11 **Impact PS-2: Alternative 4 would not require the addition of**
12 **a new fire station or the expansion, consolidation, or**
13 **relocation of an existing facility to maintain service.**

14 Cruise berth construction and port development would be reduced under Alternative
15 4 in comparison to under the proposed Project. Alternative 4 would be designed and
16 constructed to meet all applicable state and local codes and ordinances to ensure
17 adequate fire protection and access. The demand for LAFD officers and/or facilities
18 under Alternative 4 would be the same as that identified under the proposed Project.

19 **CEQA Impact Determination**

20 Alternative 4 construction activities could have temporary impacts on emergency
21 vehicle access to the proposed project area; these impacts would be significant.

22 Mitigation Measures

23 Implement Mitigation Measure MM PS-1.

24 Residual Impacts

25 Impacts would be less than significant.

26 **NEPA Impact Determination**

27 With elimination of the construction of the two Outer Harbor cruise berths and
28 terminals, Alternative 4 would include less construction subject to NEPA than the
29 proposed Project. Consequently, Alternative 4 would have less of an impact on
30 LAFD. Alternative 4 would not require the addition of a new fire station or the
31 expansion, consolidation, or relocation of an existing facility to maintain service.
32 Alternative 4 construction activities could have temporary impacts on emergency
33 vehicle access to the proposed project area; these impacts would be significant.

1 Mitigation Measures

2 Implement Mitigation Measure MM PS-1.

3 Residual Impacts

4 Impacts would be less than significant.

5 **Impact PS-3: Alternative 4 would not require or result in the**
6 **construction or expansion of utility lines that would cause**
7 **significant environmental effects.**

8 Elimination of the construction of two cruise berths and structured parking in the
9 Outer Harbor and reduction of parking in the Inner Harbor under Alternative 4 would
10 correspond with reduced utility demands compared to under the proposed Project.
11 The terminal and berth reconstruction at the Inner Harbor would not require or result
12 in the construction or expansion of utility lines to amounts above proposed Project
13 estimates.

14 **CEQA Impact Determination**

15 Alternative 4's utility upgrades and relocations could have negative impacts on traffic
16 flow and circulation. However, these possible upgrades or relocations would not
17 cause significant environmental effects. LAHD would be required, pursuant to the
18 Watch Manual, to coordinate with law enforcement agencies during construction of all
19 roadway improvements. Additionally, during any construction, recycling efforts would
20 be implemented in order to limit the amount of waste created. The following mitigation
21 measures would ensure that impacts would be less than significant.

22 Mitigation Measures

23 Implement Mitigation Measures MM PS-1 and MM PS-2.

24 Residual Impacts

25 Impacts would be less than significant.

26 **NEPA Impact Determination**

27 The reduction of construction under Alternative 4 compared to the proposed Project
28 would reduce impacts on utility demands. Because Alternative 4 is adjacent to the
29 harbor, construction and/or expansion of offsite stormwater drainage facilities would
30 not be required. Public utilities would not be affected by construction activities in the
31 in-water project area, and adverse impacts associated with construction and/or
32 expansion of water, wastewater, and storm drain infrastructure would not occur.
33 Therefore, there would be no impacts.

1 Mitigation Measures

2 No mitigation is required.

3 Residual Impacts

4 No impacts would occur.

5 **Impact PS-4: Alternative 4 has sufficient water supplies**
6 **available to serve the project from existing entitlements and**
7 **resources; it would not exceed wastewater requirements,**
8 **require new wastewater treatment facilities, require new**
9 **landfills, or exceed existing landfill capacities.**

10 Wastewater flows under Alternative 4 would equate to 1.2% of TITP capacity or
11 0.1% more than under the proposed Project. This negligible increase would not
12 exceed TITP capacity or conveyance system as TITP currently functions at 55%
13 capacity. Total water demand for Alternative 4 would be 684.88 acre-feet per year in
14 2037, 20.66 acre-feet per year less than under the proposed Project. Solid waste
15 percentages for Alternative 4 going to Sunshine Canyon City/County Landfill in
16 2015 and 2037 would be the same as estimated for the proposed Project.

17 **CEQA Impact Determination**

18 Impacts to water demand would be slightly less than the proposed Project. The small
19 increase in wastewater created compared to the proposed Project would not be a
20 significant impact on wastewater capacity because the TITP currently operates at
21 55% capacity and has sufficient capacity remaining to provide for Alternative 4's
22 increase of 0.1%. With elimination of the Outer Harbor Cruise Terminal
23 construction, Alternative 4 would have less impact on solid waste than the proposed
24 Project. However, construction debris impacts would be significant.

25 Mitigation Measures

26 Implement Mitigation Measures MM PS-2 through MM PS-5.

27 Residual Impacts

28 Impacts would be less than significant.

29 **NEPA Impact Determination**

30 Alternative 4 would include less construction subject to NEPA than the proposed
31 Project. This reduction in cruise berth construction and water cuts would correspond
32 to a reduction in impacts on wastewater, water demand, and solid waste compared to
33 the proposed Project. However, construction debris impacts would be significant.

1 Mitigation Measures

2 Implement Mitigation Measures MM PS-2 through MM PS-5.

3 Residual Impacts

4 Impacts would be less than significant.

5 **Impact PS-5: Alternative 4 would not require new, offsite**
6 **energy supply and distribution infrastructure, or capacity-**
7 **enhancing alterations to existing facilities that are not**
8 **anticipated by adopted plans or programs.**

9 The reduction in surface parking and cruise berths, under Alternative 4 compared to
10 under the proposed Project, would correspond with a reduction in impacts on
11 electricity and natural gas demands by decreasing security lighting as well as
12 terminal facilities. Commercial development is reduced by 119,097 square feet,
13 under Alternative 4 as compared to the proposed Project. Consequently, electricity
14 use under Alternative 4 would decrease by 1.79 million kWh per year for 2015 and
15 by 2.21 million kWh per year for 2037. Cruise ships and cruise terminals under
16 Alternative 4 would have an electricity demand of 4.58 million kWh per year for
17 2015 and 4.95 million kWh per year in 2037 with the increase in ship use of AMP
18 while docked. This is a decrease, compared to the proposed Project, of 4.37 million
19 kWh in 2015 and 5.37 million kWh in 2037.

20 **CEQA Impact Determination**

21 While incorporation of the building design standards referenced above for the
22 proposed Project would reduce impacts, impacts would remain significant.

23 Mitigation Measures

24 Implement Mitigation Measure MM PS-6.

25 Residual Impacts

26 Impacts would be less than significant.

27 **NEPA Impact Determination**

28 Alternative 4 would include less construction subject to NEPA than the proposed
29 Project. While incorporation of the building design standards referenced above for
30 the proposed Project would reduce impacts, impacts would remain significant.

31 Mitigation Measures

32 Implement Mitigation Measure MM PS-6.

1 Residual Impacts

2 Impacts would be less than significant.

3 **3.13.4.3.6 Alternative 5—No-Federal-Action Alternative**

4 Alternative 5 differs from the proposed Project in regards to utilities and public
5 services in that Alternative 5 would not include:

- 6 ■ development of the North Harbor, Downtown Harbor, 7th Street Harbor, 7th Street
7 Pier, Waterfront Promenade, pedestrian and waterfront access linkages, or the
8 Outer Harbor Cruise Terminal;
- 9 ■ Inner Harbor wharf construction; and
- 10 ■ harbor cuts in the Downtown Harbor area.

11 Alternative 5 would include:

- 12 ■ demolition of the existing terminal at Berth 91 and development of a new
13 200,000-square-foot terminal to serve Berths 91 and 87;
- 14 ■ Inner Harbor parking at Berths 91–93, which would consist of 3,525 spaces
15 located in a new 3-level structure covering 4.3 acres as well as at surface parking
16 at the Cruise Center; and
- 17 ■ some surface parking to support the 6-acre Outer Harbor Park (approximately 60
18 spaces).

19 **Impact PS-1: Alternative 5 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts.**

20
21
22
23
24

25 The reduction in commercial and industrial square footage under Alternative 5 as
26 compared to under the proposed Project would correspond with reduced demand on
27 LAPD and Port Police. The Outer Harbor Cruise Terminal would not be developed,
28 further decreasing security demands under Alternative 5. Surface parking under
29 Alternative 5 would increase compared to under the proposed Project. However, this
30 would not have an impact on available services, because with planned increases in
31 Port staff levels, construction of an additional station, and facility expansion projects
32 the Port Police are expected to adequately supply the minimal increased demand.
33 Vessel calls per year would be less than the proposed Project by 2037, thereby not
34 reducing available USCG resources or increasing response times as discussed under
35 the proposed Project.

1 **CEQA Impact Determination**

2 Alternative 5 construction activities could have temporary impacts on emergency
3 vehicle access to the proposed project area; these impacts would be significant.

4 Mitigation Measures

5 Implement Mitigation Measure MM PS-1.

6 Residual Impacts

7 Impacts would be less than significant.

8 **NEPA Impact Determination**

9 Because the No-Federal-Action Alternative is identical to the NEPA baseline, this
10 alternative would have no impact under NEPA.

11 Mitigation Measures

12 No mitigation is required.

13 Residual Impacts

14 No impacts would occur.

15 **Impact PS-2: Alternative 5 would not require the addition of**
16 **a new fire station or the expansion, consolidation, or**
17 **relocation of an existing facility to maintain service.**

18 The reduction in commercial and industrial square footage under Alternative 5, as
19 compared to the proposed Project, would correspond to a reduction in demand on
20 LAFD. Alternative 5 would be designed and constructed to meet all applicable state
21 and local codes and ordinances to ensure adequate fire protection and access.

22 **CEQA Impact Determination**

23 Alternative 5 construction activities could have temporary impacts on emergency
24 vehicle access to the proposed project area; these impacts would be significant.

25 Mitigation Measures

26 Implement Mitigation Measure MM PS-1.

27 Residual Impacts

28 Impacts would be less than significant.

1 **NEPA Impact Determination**

2 Because the No-Federal-Action Alternative is identical to the NEPA baseline, this
3 alternative would have no impact under NEPA.

4 Mitigation Measures

5 No mitigation is required.

6 Residual Impacts

7 No impacts would occur.

8 **Impact PS-3: Alternative 5 would not require or result in the**
9 **construction or expansion of utility lines that would cause**
10 **significant environmental effects.**

11 With the decreased commercial development in the Ports O' Call and Outer Harbor,
12 utility demands under Alternative 5 would be significantly lower than under the
13 proposed Project.

14 **CEQA Impact Determination**

15 Alternative 5's utility upgrades and relocations could have negative impacts on traffic
16 flow and circulation. However, these possible upgrades or relocations would not
17 cause significant environmental effects. LAHD would be required, pursuant to the
18 Watch Manual, to coordinate with law enforcement agencies during construction of all
19 roadway improvements. Additionally, during any construction, recycling efforts would
20 be implemented in order to limit the amount of waste created. The following mitigation
21 measures would ensure that impacts would be less than significant.

22 Mitigation Measures

23 Implement Mitigation Measures MM PS-1 and MM PS-2.

24 Residual Impacts

25 Impacts would be less than significant.

26 **NEPA Impact Determination**

27 Because the No-Federal-Action Alternative is identical to the NEPA baseline, this
28 alternative would have no impact under NEPA.

29 Mitigation Measures

30 No mitigation is required.

1 Residual Impacts

2 No impacts would occur.

3 **Impact PS-4: Alternative 5 has sufficient water supplies**
4 **available to serve the project from existing entitlements and**
5 **resources; it would not exceed wastewater requirements,**
6 **require new wastewater treatment facilities, require new**
7 **landfills, or exceed existing landfill capacities.**

8 **CEQA Impact Determination**

9 Wastewater under Alternative 5 is 1.2% of the TITP capacity, 0.1% more than under
10 the proposed Project. This is a minimal increase and would not have adverse impacts
11 on TITP as the facility currently functions at only 55% capacity. Total water demand
12 under Alternative 5 would be 679.48 acre-feet per year in 2037, 23.85 acre-feet per
13 year less than under the proposed Project. Solid waste under Alternative 5 is the
14 same as the proposed Project. Impacts would be significant.

15 Mitigation Measures

16 Implement Mitigation Measures MM PS-2 through MM PS-5.

17 Residual Impacts

18 Impacts would be less than significant.

19 **NEPA Impact Determination**

20 Because the No-Federal-Action Alternative is identical to the NEPA baseline, this
21 alternative would have no impact under NEPA.

22 Mitigation Measures

23 No mitigation is required.

24 Residual Impacts

25 No impact would occur.

1 **Impact PS-5: Alternative 5 would not require new, offsite**
2 **energy supply and distribution infrastructure, or capacity-**
3 **enhancing alterations to existing facilities that are not**
4 **anticipated by adopted plans or programs.**

5 With the decreased commercial and industrial development in the Ports O' Call and
6 Outer Harbor, energy and natural gas demands under Alternative 5 would be
7 significantly lower than under the proposed Project. Electricity use would be 2.37
8 million kWh per year less under Alternative 5 than under the proposed Project for
9 2037, while natural gas demand would be 10,000 cubic feet per day less than the
10 proposed Project.

11 **CEQA Impact Determination**

12 While incorporation of the building design standards referenced above for the
13 proposed Project would reduce impacts, impacts would remain significant.

14 Mitigation Measures

15 Implement Mitigation Measure MM PS-6.

16 Residual Impacts

17 Impacts would be less than significant.

18 **NEPA Impact Determination**

19 Because the No-Federal-Action Alternative is identical to the NEPA baseline, this
20 alternative would have no impact under NEPA.

21 Mitigation Measures

22 No mitigation is required.

23 Residual Impacts

24 No impacts would occur.

25 **3.13.4.3.7 Alternative 6—No-Project Alternative**

26 This alternative considers what would reasonably be expected to occur on the site if
27 no LAHD or federal action would occur. LAHD would not issue any permits or
28 discretionary approvals and would take no further action to construct or permit the
29 construction of any portion of the proposed Project. The USACE would not issue
30 any permits or discretionary approvals for dredge and fill actions or for construction
31 of wharves. This alternative would not allow implementation of the proposed Project
32 or other physical improvements associated with the proposed Project.

1 **Impact PS-1: Alternative 6 would not burden existing USCG,**
2 **LAPD, or Port Police staff levels and facilities such that**
3 **USCG, LAPD, or Port Police would not be able to maintain an**
4 **adequate level of service without requiring construction of**
5 **additional facilities that could cause significant**
6 **environmental impacts.**

7 **CEQA Impact Determination**

8 Alternative 6 would not increase USCG, LAPD, or Port Police staff levels beyond
9 those anticipated in the General Plan; therefore, there would be no impact.

10 Mitigation Measures

11 No mitigation is required.

12 Residual Impacts

13 No impacts would occur.

14 **NEPA Impact Determination**

15 This alternative is not applicable to NEPA.

16 Mitigation Measures

17 Not applicable.

18 Residual Impacts

19 Not applicable.

20 **Impact PS-2: Alternative 6 would not require the addition of**
21 **a new fire station or the expansion, consolidation, or**
22 **relocation of an existing facility to maintain service.**

23 **CEQA Impact Determination**

24 Alternative 6 would not increase fewer fire services beyond levels anticipated in the
25 General Plan; therefore, there would be no impact.

26 Mitigation Measures

27 No mitigation is required.

1 Residual Impacts

2 No impacts would occur.

3 **NEPA Impact Determination**

4 This alternative is not applicable to NEPA.

5 Mitigation Measures

6 Not applicable.

7 Residual Impacts

8 Not applicable.

9 **Impact PS-3: Alternative 6 would not require or result in the**
10 **construction or expansion of utility lines that would cause**
11 **significant environmental effects.**

12 **CEQA Impact Determination**

13 Alternative 6 would not require construction or expansion of utility lines beyond
14 those anticipated in the General Plan; therefore, there would be no impact.

15 Mitigation Measures

16 No mitigation is required.

17 Residual Impacts

18 No impacts would occur.

19 **NEPA Impact Determination**

20 This alternative is not applicable to NEPA.

21 Mitigation Measures

22 Not applicable.

23 Residual Impacts

24 Not applicable.

1 **Impact PS-4: Alternative 6 has sufficient water supplies**
2 **available to serve the project from existing entitlements and**
3 **resources; it would not exceed wastewater requirements,**
4 **require new wastewater treatment facilities, require new**
5 **landfills, or exceed existing landfill capacities.**

6 **CEQA Impact Determination**

7 Water demand, wastewater demand, and landfill capacity for Alternative 6 would not
8 exceed levels anticipated in the General Plan; therefore, there would be no impact.

9 Mitigation Measures

10 No mitigation is required.

11 Residual Impacts

12 No impacts would occur.

13 **NEPA Impact Determination**

14 This alternative is not applicable to NEPA.

15 Mitigation Measures

16 Not applicable.

17 Residual Impacts

18 Not applicable.

19 **Impact PS-5: Alternative 6 would not require new, offsite**
20 **energy supply and distribution infrastructure, or capacity-**
21 **enhancing alterations to existing facilities that are not**
22 **anticipated by adopted plans or programs.**

23 **CEQA Impact Determination**

24 Energy consumption for Alternative 6 would not exceed levels anticipated in the
25 General Plan; therefore, there would be no impact.

26 Mitigation Measures

27 No mitigation is required.

1 Residual Impacts

2 No impacts would occur.

3 **NEPA Impact Determination**

4 This alternative is not applicable to NEPA.

5 Mitigation Measures

6 Not applicable.

7 Residual Impacts

8 Not applicable.

9 **3.13.4.3.8 Summary of Impact Determinations**

10 Table 3.13-6 summarizes the CEQA and NEPA impact determinations for the
11 proposed Project and its alternatives related to public services. This table is meant to
12 facilitate comparison of potential impacts of the proposed Project and its alternatives
13 with respect to this resource. Identified potential impacts may be based on federal,
14 state, and City significance criteria, LAHD criteria, and the scientific judgment of the
15 report preparers.

16 For each type of potential impact, the table describes the impact, notes the CEQA and
17 NEPA impact determinations, describes any applicable mitigation measures, and
18 notes the residual impacts (i.e., the impact remaining after mitigation). All impacts,
19 whether significant or not, are included in this table.

1 **Table 3.13-6.** Summary Matrix of Potential Impacts and Mitigation Measures for Utilities and Public Services Associated with the Proposed
 2 Project and Alternatives

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> | |
|------------------------------------|---|-----------------------------|--|---|-----------------------------|
| 3.13 UTILITIES AND PUBLIC SERVICES | | | | | |
| Proposed Project | <p>PS-1: The proposed Project would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts.</p> | CEQA: Significant | <p>MM PS-1. Coordinate with law enforcement agencies. LAHD will be required, pursuant to the Watch Manual, to coordinate with law enforcement agencies, during construction of all roadway improvements, to establish emergency vehicular access and ensure continuous law enforcement access to surrounding areas.</p> | CEQA: Less than significant | |
| | | NEPA: Significant | | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | <p>PS-2: The proposed Project would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service.</p> | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant | |
| | | NEPA: Significant | | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | <p>PS-3: The proposed Project would not require or result in the construction or expansion of utility lines that would cause significant environmental effects.</p> | CEQA: Significant | Implement Mitigation Measure MM PS-1. | <p>MM PS-2: Recycle construction materials. Demolition and/or excess construction materials will be separated on site for reuse/recycling or proper disposal. During grading and construction, separate bins for recycling of construction materials will be provided on site.</p> | CEQA: Less than significant |
| | | NEPA: No impacts | | | No mitigation is required. |

| Alternative | Environmental Impacts* | Impact Determination | Mitigation Measures | Impacts after Mitigation |
|-------------|--|--------------------------|--|------------------------------------|
| | <p>PS-4: The proposed Project has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities.</p> | <p>CEQA: Significant</p> | <p>Implement Mitigation Measure MM PS-2.</p> <p>MM PS-3: Use materials with recycled content. Materials with recycled content, such as recycled steel from framing and recycled concrete and asphalt from roadway construction, will be used in project construction. Wood chippers registered through the California Air Resources Board’s Portable Equipment Registration Program will be used on site during construction, using wood from tree removal, not wood from demolished structures, to further reduce excess wood for landscaping cover.</p> <p>MM PS-4: Comply with AB 939. LAHD and Port tenants will implement a Solid Waste Management Program including the following measures to achieve a 50% reduction of current waste generation percentages by 2037 and ensure compliance with the California Solid Waste Management Act (AB 939).</p> <ul style="list-style-type: none"> a. Provide space and/or bins for storage of recyclable materials on the project site. All garbage and recycle bin storage space will be enclosed and plans will show equal area availability for both garbage and recycle bins in storage spaces. b. Establish a recyclable material pick-up area for commercial buildings. c. Participate in a curbside recycling program to serve the new development. d. Develop a plan for accessible collection | <p>CEQA: Less than significant</p> |

| Alternative | Environmental Impacts* | Impact Determination | Mitigation Measures | Impacts after Mitigation |
|-------------|------------------------|----------------------|---|--------------------------|
| | | | <p>of materials on a regular basis.</p> <ul style="list-style-type: none"> e. Develop source reduction measures that indicate the method and amount of expected reduction. f. Implement a program to purchase materials that have recycled content for project construction and operation (e.g., lumber, plastic, office supplies). g. Provide a resident-tenant/employee education pamphlet to be used in conjunction with available Los Angeles County and federal source reduction educational materials. The pamphlet will be provided to all commercial tenants by the leasing/property management agency. h. Include lease language requiring tenant participation in recycling/waste reduction programs, including specification that janitorial contracts support recycling. <p>MM PS-5: Water Conservation and Wastewater Reduction. LAHD and Port tenants will implement the following water conservation and wastewater reduction measures to further reduce impacts on water demand and wastewater flows.</p> <ul style="list-style-type: none"> a. The landscape irrigation system will be designed, installed, and tested to provide uniform irrigation coverage for each zone. Sprinkler head patterns will be adjusted to minimize overspray onto walkways and streets. Each zone | |

| Alternative | Environmental Impacts* | Impact Determination | Mitigation Measures | Impacts after Mitigation |
|-------------|------------------------|----------------------|--|--------------------------|
| | | | <p>(sprinkler valve) will water plants having similar watering needs (i.e., shrubs, flowers, and turf will not be in the same watering zone). Automatic irrigation timers will be set to water landscaping during early morning or late evening hours to reduce water losses from evaporation. Irrigation run times will be adjusted for all zones seasonally, reducing length and frequency of waterings in the cooler months (i.e., fall, winter, spring). Adjust sprinkler timer run time to avoid water runoff, especially when irrigating sloped property. Sprinkler times will be reduced once drought-tolerant plants have been established.</p> <p>b. Drought-tolerant, low-water consuming plant varieties will be used to reduce irrigation water consumption.</p> <p>c. The availability of recycled water will be investigated as a source to irrigate large landscaped areas.</p> <p>d. Ultra-low-flush toilets, ultra-low-flush urinals, and water-saving showerheads must be installed in both new construction and when remodeling. Low-flow faucet aerators will be installed on all sink faucets.</p> <p>e. Significant opportunities for water savings exist in air conditioning systems that utilize evaporative cooling (i.e., employ cooling towers). LADWP will be contacted for specific</p> | |

| Alternative | Environmental Impacts* | Impact Determination | Mitigation Measures | Impacts after Mitigation |
|-------------|--|----------------------|--|-----------------------------|
| | | | information of appropriate measures. f. Recirculating or point-of-use hot water systems will be installed to reduce water waste in long piping systems where water must be run for considerable period before heated water reaches the outlet. | |
| | | NEPA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | NEPA: Less than significant |
| | <p>PS-5: The proposed Project would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs.</p> | CEQA: Significant | <p>MM PS-6: Employ energy conservation measures. During the design process, LAHD will consult with LADWP’s Efficiency Solutions Business Group regarding possible energy efficiency measures. LAHD and its tenants will incorporate measures to meet or, if possible, exceed minimum efficiency standards for Title XXIV of the California Code of Regulations, such as:</p> <ul style="list-style-type: none"> a. Built-in appliances, refrigerators, and space-conditioning equipment will exceed the minimum efficiency levels mandated in the California Code of Regulations. b. High-efficiency air conditioning will be installed that is controlled by a computerized energy-management system in office and retail spaces and provides the following: <ul style="list-style-type: none"> ❑ a variable air-volume system that results in minimum energy consumption and avoids hot water energy consumption for terminal | CEQA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|-------------------------------|-----------------------------|---|---------------------------------|
| | | | <p>reheat,</p> <ul style="list-style-type: none"> <li data-bbox="1136 337 1535 456">❑ a 100% outdoor air-economizer cycle to obtain free cooling in appropriate climate zones during dry climatic periods, <li data-bbox="1136 477 1562 561">❑ sequentially staged operation of air-conditioning equipment in accordance with building demands, <li data-bbox="1136 583 1545 639">❑ the isolation of air conditioning to any selected floor or floors, and <li data-bbox="1136 660 1528 748">❑ considers the applicability of the use of thermal energy storage to handle cooling loads. <p>c. Ventilation air will be cascaded from high-priority areas before being exhausted, thereby decreasing the volume of ventilation air required. For example, air could be cascaded from occupied space to corridors and then to mechanical spaces before being exhausted.</p> <p>d. Lighting system heat will be recycled for space heating during cool weather. While exhaust lighting-system heat will be recycled from the buildings, via ceiling plenums, to reduce cooling loads in warm weather.</p> <p>e. Low and medium static-pressure terminal units will be installed, as well as ductwork to reduce energy consumption by air-distribution systems.</p> | |

| Alternative | Environmental Impacts* | Impact Determination | Mitigation Measures | Impacts after Mitigation |
|-------------|------------------------|----------------------|---|--------------------------|
| | | | <ul style="list-style-type: none"> <li data-bbox="1087 289 1572 500">f. Buildings must be well sealed to prevent outside air from infiltrating and increasing interior space-conditioning loads. Where applicable, design building entrances with vestibules to restrict infiltration of unconditioned air and exhausting of conditioned air. <li data-bbox="1087 516 1545 760">g. A performance check of the installed space-conditioning system will be completed by the developer/installer prior to issuance of the certificate of occupancy to ensure that energy-efficiency measures incorporated into the proposed Project operate as designed. <li data-bbox="1087 776 1560 987">h. Exterior walls will be finished with light-colored materials and high-emissivity characteristics to reduce cooling loads. Interior walls will be finished with light-colored materials to reflect more light and, thus increase light efficiency. <li data-bbox="1087 1003 1566 1133">i. White reflective material will be used for roofing meeting California standards for reflectivity and emissivity to reject heat. <li data-bbox="1087 1149 1560 1279">j. Thermal insulation that exceeds requirements established by the California Code of Regulations will be installed in walls and ceilings. <li data-bbox="1087 1295 1549 1401">k. Window systems will be designed to reduce thermal gain and loss, thus reducing cooling loads during warm weather and heating loads during cool | |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|-------------------------------|-----------------------------|--|---------------------------------|
| | | | <p>weather.</p> <ul style="list-style-type: none"> <li data-bbox="1087 334 1556 451">l. Heat-rejecting window treatments will be installed, such as films, blinds, draperies, or others on appropriate exposures. <li data-bbox="1087 475 1570 743">m. Fluorescent and high-intensity discharge lamps that give the highest light output per watt of electricity consumed will be installed wherever possible, including all street and parking lot lighting, to reduce electricity consumption. Reflectors will be used to direct maximum levels of light to work surfaces. <li data-bbox="1087 768 1549 914">n. Photosensitive controls and dimmable electronic ballasts will be installed to maximize the use of natural daylight available and reduce artificial lighting load. <li data-bbox="1087 938 1560 1084">o. Occupant-controlled light switches and thermostats to permit individual adjustment of lighting, heating, and cooling will be installed to avoid unnecessary energy consumption. <li data-bbox="1087 1109 1539 1222">p. Time-controlled interior and exterior public area light will be installed, limited to that which is necessary for safety and security. <li data-bbox="1087 1247 1556 1393">q. Mechanical systems (HVAC and lighting) in the building will be controlled with timing systems to prevent accidental or inappropriate conditioning or lighting of unoccupied | |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|---|-----------------------------|--|---------------------------------|
| | | | space. r. Windowless walls or passive solar inset of windows will be incorporated, where feasible, in building design. s. Project will focus pedestrian activity within sheltered outdoor areas. | |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-6. | NEPA: Less than significant |
| Alternative 1 | PS-1: Alternative 1 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-2: Alternative 1 would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-3: Alternative 1 would not require or result | CEQA: Significant | Implement Mitigation Measures MM PS-1 and MM PS-2. | CEQA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|--|-----------------------------|--|---------------------------------|
| | in the construction or expansion of utility lines that would cause significant environmental effects. | NEPA: No impacts | No mitigation is required. | NEPA: No impacts |
| | PS-4: Alternative 1 has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. | CEQA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | NEPA: Less than significant |
| | PS-5: Alternative 1 would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs. | CEQA: Significant | Implement Mitigation Measure MM PS-6. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-6. | NEPA: Less than significant |
| Alternative 2 | PS-1: Alternative 2 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|--|-----------------------------|--|---------------------------------|
| | of service without requiring construction of additional facilities that could cause significant environmental impacts. | | | |
| | PS-2: Alternative 2 would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-3: Alternative 2 would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. | CEQA: Significant | Implement Mitigation Measures MM PS-1 and MM PS-2. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| | PS-4: Alternative 2 has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. | CEQA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | NEPA: Less than significant |
| | PS-5: Alternative 2 would not require new, | CEQA: Significant | Implement Mitigation Measure MM PS-6. | CEQA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|---|-----------------------------|--|---------------------------------|
| | offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs. | NEPA: Significant | Implement Mitigation Measure MM PS-6. | NEPA: Less than significant |
| Alternative 3 | PS-1: Alternative 3 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-2: Alternative 3 would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-3: Alternative 3 would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. | CEQA: Significant | Implement Mitigation Measures MM PS-1 and MM PS-2. | CEQA: Less than significant |
| | | NEPA: No impacts | Mitigation not required. | NEPA: No impacts |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|--|-----------------------------|--|---------------------------------|
| | <p>PS-4: Alternative 3 has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities.</p> | CEQA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | NEPA: Less than significant |
| | <p>PS-5: Alternative 3 would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs.</p> | CEQA: Significant | Implement Mitigation Measure MM PS-6. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-6. | NEPA: Less than significant |
| Alternative 4 | <p>PS-1: Alternative 4 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts.</p> | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|--|-----------------------------|--|---------------------------------|
| | PS-2: Alternative 4 would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-1. | NEPA: Less than significant |
| | PS-3: Alternative 4 would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. | CEQA: Significant | Implement Mitigation Measures MM PS-1 and MM PS-2. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| | PS-4: Alternative 4 has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. | CEQA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | NEPA: Less than significant |
| | PS-5: Alternative 4 would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not | CEQA: Significant | Implement Mitigation Measure MM PS-6. | CEQA: Less than significant |
| | | NEPA: Significant | Implement Mitigation Measure MM PS-6. | NEPA: Less than significant |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|---|-----------------------------|--|---------------------------------|
| | anticipated by adopted plans or programs. | | | |
| Alternative 5 | PS-1: Alternative 5 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| | PS-2: Alternative 5 would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. | CEQA: Significant | Implement Mitigation Measure MM PS-1. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| | PS-3: Alternative 5 would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. | CEQA: Significant | Implement Mitigation Measures MM PS-1 and MM PS-2. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| | PS-4: Alternative 5 has sufficient water supplies available to serve the project from existing entitlements and | CEQA: Significant | Implement Mitigation Measures MM PS-2 through MM PS-5. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--------------------|--|-----------------------------|---------------------------------------|---------------------------------|
| | resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. | | | |
| | PS-5: Alternative 5 would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs. | CEQA: Significant | Implement Mitigation Measure MM PS-6. | CEQA: Less than significant |
| | | NEPA: No impact | No mitigation is required. | NEPA: No impact |
| Alternative 6 | PS-1: Alternative 6 would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that the USCG, LAPD, or Port Police would not be able to maintain an adequate level of service with additional facilities, the construction of which could cause significant environmental effects. | CEQA: Less than significant | No mitigation is required. | CEQA: Less than significant |
| | | NEPA: Not applicable | Not applicable | NEPA: Not applicable |
| | PS-2: Alternative 6 would not require the addition of a new fire station or the expansion, consolidation, or | CEQA: Less than significant | No mitigation is required. | CEQA: Less than significant |
| | | NEPA: Not applicable | Not applicable | NEPA: Not applicable |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|--|--|-----------------------------|----------------------------|---------------------------------|
| | relocation of an existing facility to maintain service. | | | |
| | PS-3: Alternative 6 would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. | CEQA: Less than significant | No mitigation is required. | CEQA: Less than significant |
| | | NEPA: Not applicable | Not applicable | NEPA: Not applicable |
| | PS-4: Alternative 6 has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. | CEQA: Less than significant | No mitigation is required. | CEQA: Less than significant |
| | | NEPA: Not applicable | Not applicable | NEPA: Not applicable |
| | PS-5: Alternative 6 would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs. | CEQA: Less than significant | No mitigation is required. | CEQA: Less than significant |
| | | NEPA: Not applicable | Not applicable | NEPA: Not applicable |
| <i>Notes:</i> | | | | |
| * Impact descriptions for each of the alternatives are the same as for the proposed Project, unless otherwise noted. | | | | |

| <i>Alternative</i> | <i>Environmental Impacts*</i> | <i>Impact Determination</i> | <i>Mitigation Measures</i> | <i>Impacts after Mitigation</i> |
|---|-------------------------------|-----------------------------|----------------------------|---------------------------------|
| † The term <i>not applicable</i> is used in cases where a particular impact is not identified as a CEQA- or NEPA-related issue in the threshold of significance criteria, or where there is no federal action requiring a NEPA determination of significance. | | | | |

1 3.13.4.4 Mitigation Monitoring

2 **Table 3.13-7.** Mitigation Monitoring for Utilities and Public Services

| | |
|--|---|
| <p>Impact PS-1: The proposed Project would not burden existing USCG, LAPD, or Port Police staff levels and facilities such that USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without requiring construction of additional facilities that could cause significant environmental impacts. (Also applies to Impact PS-1 for Alternatives 1-5.)</p> | |
| Mitigation Measure | MM PS-1. Coordinate with law enforcement agencies. LAHD will be required, pursuant to the Watch Manual, to coordinate with law enforcement agencies, during construction of all roadway improvements, to establish emergency vehicular access and ensure continuous law enforcement access to surrounding areas. |
| Timing | During construction |
| Methodology | Implementation of Watch Manual procedures to reduce construction-related impacts to law enforcement agencies. |
| Responsible Parties | LAHD Engineering |
| Residual Impacts for Impact PS-1 | Less than significant |
| <p>Impact PS-2: The proposed Project would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. (Also applies to Impact PS-3 for Alternatives 1-5.)</p> | |
| Mitigation Measure | See Mitigation Measure MM PS-1 above. |
| Residual Impacts for Impact PS-2 | Less than significant |
| <p>Impact PS-3: The proposed Project would not require or result in the construction or expansion of utility lines that would cause significant environmental effects. (Also applies to Impact PS-3 for Alternatives 1-5.)</p> | |
| Mitigation Measure | See Mitigation Measure MM PS-1 above. |
| Residual Impacts for Impact PS-3 | Less than significant |
| <p>Impact PS-4: The proposed Project has sufficient water supplies available to serve the project from existing entitlements and resources; it would not exceed wastewater requirements, require new wastewater treatment facilities, require new landfills, or exceed existing landfill capacities. (Also applies to Impact PS-4 for Alternatives 1-5.)</p> | |
| Mitigation Measure | MM PS-2: Recycle construction materials. Demolition and/or excess construction materials will be separated on site for reuse/recycling or proper disposal. During grading and construction, separate bins for recycling of construction materials will be provided on site. |
| Timing | During construction and operation |
| Methodology | Prepare a plan to identify materials to be recycled during construction, indicate bin location during construction, and identify the recycled materials to be used during construction. On the project plans, identify all water conservation measures and locations of such measures. |
| Responsible Parties | LAHD Engineering |
| Mitigation Measure | MM PS-3: Use materials with recycled content. Materials with recycled content, such as recycled steel from framing and recycled concrete and asphalt from roadway |

| | |
|---------------------|--|
| | construction, will be used in project construction. Wood chippers registered through the California Air Resources Board’s Portable Equipment Registration Program will be used on site during construction, using wood from tree removal, not wood from demolished structures, to further reduce excess wood for landscaping cover. |
| Timing | During construction and operation |
| Methodology | Prepare a plan to identify materials to be recycled during construction, indicate bin location during construction, and identify the recycled materials to be used during construction. On the project plans, identify all water conservation measures and locations of such measures. |
| Responsible Parties | LAHD Engineering |
| Mitigation Measure | <p>MM PS-4: Comply with AB 939. LAHD and Port tenants will implement a Solid Waste Management Program including the following measures to achieve a 50% reduction of current waste generation percentages by 2037 and ensure compliance with the California Solid Waste Management Act (AB 939).</p> <ul style="list-style-type: none"> a. Provide space and/or bins for storage of recyclable materials on the project site. All garbage and recycle bin storage space will be enclosed and plans will show equal area availability for both garbage and recycle bins in storage spaces. b. Establish a recyclable material pick-up area for commercial buildings. c. Participate in a curbside recycling program to serve the new development. d. Develop a plan for accessible collection of materials on a regular basis. e. Develop source reduction measures that indicate the method and amount of expected reduction. f. Implement a program to purchase materials that have recycled content for project construction and operation (e.g., lumber, plastic, office supplies). g. Provide a resident-tenant/employee education pamphlet to be used in conjunction with available Los Angeles County and federal source reduction educational materials. The pamphlet will be provided to all commercial tenants by the leasing/property management agency. h. Include lease language requiring tenant participation in recycling/waste reduction programs, including specification that janitorial contracts support recycling. |
| Timing | During construction and operation |
| Methodology | Prepare a plan to identify materials to be recycled during construction, indicate bin location during construction, and identify the recycled materials to be used during construction. On the project plans, identify all water conservation measures and locations of such measures. |
| Responsible Parties | LAHD Engineering |
| Mitigation Measure | <p>MM PS-5: Water Conservation and Wastewater Reduction. LAHD and Port tenants will implement the following water conservation and wastewater reduction measures to further reduce impacts on water demand and wastewater flows.</p> <ul style="list-style-type: none"> a. The landscape irrigation system will be designed, installed, and tested to provide uniform irrigation coverage for each zone. Sprinkler head patterns will be adjusted to minimize overspray onto walkways and streets. Each zone (sprinkler valve) will water plants having similar watering needs (i.e., shrubs, flowers, and turf will not be in the same watering zone). Automatic irrigation timers will be set to water landscaping during early morning or late evening hours to reduce water losses from evaporation. Irrigation run times will be adjusted for all zones seasonally, reducing length and frequency of waterings in the cooler months (i.e., fall, winter, spring). Adjust sprinkler timer run time to avoid water runoff, especially when irrigating |

| | |
|--|--|
| | <p>sloped property. Sprinkler times will be reduced once drought-tolerant plants have been established.</p> <ul style="list-style-type: none"> b. Drought-tolerant, low-water consuming plant varieties will be used to reduce irrigation water consumption. c. The availability of recycled water will be investigated as a source to irrigate large landscaped areas. d. Ultra-low-flush toilets, ultra-low-flush urinals, and water-saving showerheads must be installed in both new construction and when remodeling. Low-flow faucet aerators will be installed on all sink faucets. e. Significant opportunities for water savings exist in air conditioning systems that utilize evaporative cooling (i.e., employ cooling towers). LADWP will be contacted for specific information of appropriate measures. f. Recirculating or point-of-use hot water systems will be installed to reduce water waste in long piping systems where water must be run for considerable period before heated water reaches the outlet. |
| Timing | During construction and operation |
| Methodology | Prepare a plan to identify materials to be recycled during construction, indicate bin location during construction, and identify the recycled materials to be used during construction. On the project plans, identify all water conservation measures and locations of such measures. |
| Responsible Parties | LAHD Engineering |
| Residual Impacts for Impact PS-4 | Less than significant |
| <p>Impact PS-5: The proposed Project would not require new, offsite energy supply and distribution infrastructure, or capacity-enhancing alterations to existing facilities that are not anticipated by adopted plans or programs. <i>(Also applies to Impact PS-5 for Alternatives 1-5.)</i></p> | |
| Mitigation Measure | <p>MM PS-6: Employ energy conservation measures. During the design process, LAHD will consult with LADWP’s Efficiency Solutions Business Group regarding possible energy efficiency measures. LAHD and its tenants will incorporate measures to meet or, if possible, exceed minimum efficiency standards for Title XXIV of the California Code of Regulations, such as:</p> <ul style="list-style-type: none"> a. Built-in appliances, refrigerators, and space-conditioning equipment will exceed the minimum efficiency levels mandated in the California Code of Regulations. b. High-efficiency air conditioning will be installed that is controlled by a computerized energy-management system in office and retail spaces and provides the following: <ul style="list-style-type: none"> ❑ a variable air-volume system that results in minimum energy consumption and avoids hot water energy consumption for terminal reheat, ❑ a 100% outdoor air-economizer cycle to obtain free cooling in appropriate climate zones during dry climatic periods, ❑ sequentially staged operation of air-conditioning equipment in accordance with building demands, ❑ the isolation of air conditioning to any selected floor or floors, and ❑ considers the applicability of the use of thermal energy storage to handle |

| | |
|--|--|
| | <p>cooling loads.</p> <ul style="list-style-type: none"> c. Ventilation air will be cascaded from high-priority areas before being exhausted, thereby decreasing the volume of ventilation air required. For example, air could be cascaded from occupied space to corridors and then to mechanical spaces before being exhausted. d. Lighting system heat will be recycled for space heating during cool weather. While exhaust lighting-system heat will be recycled from the buildings, via ceiling plenums, to reduce cooling loads in warm weather. e. Low and medium static-pressure terminal units will be installed, as well as ductwork to reduce energy consumption by air-distribution systems. f. Buildings must be well sealed to prevent outside air from infiltrating and increasing interior space-conditioning loads. Where applicable, design building entrances with vestibules to restrict infiltration of unconditioned air and exhausting of conditioned air. g. A performance check of the installed space-conditioning system will be completed by the developer/installer prior to issuance of the certificate of occupancy to ensure that energy-efficiency measures incorporated into the proposed Project operate as designed. h. Exterior walls will be finished with light-colored materials and high-emissivity characteristics to reduce cooling loads. Interior walls will be finished with light-colored materials to reflect more light and, thus increase light efficiency. i. White reflective material will be used for roofing meeting California standards for reflectivity and emissivity to reject heat. j. Thermal insulation that exceeds requirements established by the California Code of Regulations will be installed in walls and ceilings. k. Window systems will be designed to reduce thermal gain and loss, thus reducing cooling loads during warm weather and heating loads during cool weather. l. Heat-rejecting window treatments will be installed, such as films, blinds, draperies, or others on appropriate exposures. m. Fluorescent and high-intensity discharge lamps that give the highest light output per watt of electricity consumed will be installed wherever possible, including all street and parking lot lighting, to reduce electricity consumption. Reflectors will be used to direct maximum levels of light to work surfaces. n. Photosensitive controls and dimmable electronic ballasts will be installed to maximize the use of natural daylight available and reduce artificial lighting load. o. Occupant-controlled light switches and thermostats to permit individual adjustment of lighting, heating, and cooling will be installed to avoid unnecessary energy consumption. p. Time-controlled interior and exterior public area light will be installed, limited to that which is necessary for safety and security. q. Mechanical systems (HVAC and lighting) in the building will be controlled with timing systems to prevent accidental or inappropriate conditioning or lighting of unoccupied space. r. Windowless walls or passive solar inset of windows will be incorporated, where |
|--|--|

| | |
|----------------------------------|--|
| | feasible, in building design. s. Project will focus pedestrian activity within sheltered outdoor areas. |
| Timing | During project design |
| Methodology | Meet with LADWP's Efficiency Solutions Business Group as the first step in developing a plan to implement energy efficiency measures. LAHD and its tenants will be required to incorporate a minimum number of these measures to meet or, if possible, exceed minimum efficiency standards for Title XXIV of the California Code of Regulations. Develop a performance plan so that each tenant is required to implement a required number of these items. |
| Responsible Parties | LAHD Engineering |
| Residual Impacts for Impact PS-5 | Less than significant |

1

2 **3.13.5 Significant Unavoidable Impacts**

3

No significant unavoidable impacts on public services or utilities would occur during construction or operation for the proposed Project or the alternatives.

4