

# 3.9

## NOISE

1

### 2 **3.9.1 Introduction**

3 This section provides a discussion of the regulatory and environmental setting for  
4 noise as it pertains to the proposed Project and its alternatives, an evaluation of  
5 potential noise impacts from construction and operation, level of significance of  
6 proposed Project noise exposure, and, where applicable, potential noise mitigation  
7 measures.

8 Technical acoustical terms commonly used in this section are defined in Table 3.9-1.

### 9 **3.9.2 Environmental Setting**

#### 10 **3.9.2.1 Noise Fundamentals**

11 *Noise* may be defined as unwanted sound. Noise is usually objectionable because it  
12 is disturbing or annoying. The objectionable nature of sound can be caused by its  
13 *pitch* or its *loudness*. *Pitch* is the height or depth of a tone or sound, depending on  
14 the relative rapidity (frequency) of the vibrations by which it is produced. Higher  
15 pitched signals sound louder to humans than sounds with a lower pitch. *Loudness* is  
16 the amplitude of sound waves combined with the reception characteristics of the ear.  
17 Amplitude may be compared with the height of an ocean wave—it has an oscillating  
18 high and low point. Technical acoustical terms commonly used in this section are  
19 defined in Table 3.9-1.

20

1 **Table 3.9-1.** Definitions of Acoustical Terms

<i>Term</i>	<i>Definition</i>
Decibel (dB)	A unit describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20 micro Pascals.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels. Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency (Hertz [Hz])	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sounds are below 20 Hz and ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level (dBA)	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level ( $L_{eq}$ )	The average A-weighted noise level during the measurement period. The hourly $L_{eq}$ used for this report is denoted as dBA $L_{eq[h]}$ .
Community Noise Equivalent Level (CNEL)	The average A-weighted noise level during a 24-hour day, obtained after addition of 5 decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and after addition of 10 decibels to sound levels in the night between 10:00 p.m. and 7:00 a.m.
Day/Night Noise Level ( $L_{dn}$ )	The average A-weighted noise level during a 24-hour day, obtained after addition of 10 decibels to levels measured in the night between 10:00 p.m. and 7:00 a.m.
$L_{01}$ , $L_{10}$ , $L_{50}$ , $L_{90}$	The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, time of occurrence, and tonal or informational content as well as the prevailing ambient noise level.

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3 **3.9.2.1.1 Decibels and Frequency**

4 In addition to the concepts of pitch and loudness, there are several noise  
5 measurement scales which are used to describe noise. The *decibel (dB)* is a unit of  
6 measurement that indicates the relative amplitude of a sound. Zero on the decibel  
7 scale is based on the lowest sound pressure that a healthy, unimpaired human ear can  
8 detect. Sound levels in decibels are calculated on a logarithmic basis. An increase of  
9 10 decibels represents a 10-fold increase in acoustic energy, while 20 decibels is 100  
10 times more intense, 30 decibels is 1,000 times more intense, etc. There is a  
11 relationship between the subjective noisiness or loudness of a sound and its level.

Each 10-decibel increase in sound level is perceived as approximately a doubling of loudness over a wide range of amplitudes. Since decibels are logarithmic units, sound pressure levels are not added arithmetically. When two sounds of equal sound pressure level are added, the result is a sound pressure level that is 3 dB higher. For example, if the sound level were 70 dB when 100 cars pass by, then it would be 73 dB when 200 cars pass the observer. Doubling the amount of energy would result in a 3 dB increase to the sound level.

Frequency relates to the number of pressure oscillations per second, or *Hertz (Hz)*. The range of sound frequencies that can be heard by healthy human ears is from about 20 Hz at the low frequency end to 20,000 Hz (20 kilohertz [kHz]) at the high frequency end.

There are several methods for characterizing sound. The most common is the *A-weighted sound level*, or *dBA*. This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Studies have shown that the *A-weighted level* is closely correlated with annoyance to traffic noise. Other frequency weighting networks, such as *C weighting*, or *dBC*, have been devised to describe noise levels for specific types of noise (e.g., explosives). Table 3.9-2 shows typical *A-weighted* noise levels that occur in human environments.

**Table 3.9-2. Typical Noise Levels in the Environment**

<i>Common Outdoor Noise Source</i>	<i>Noise Level (dBA)</i>	<i>Common Indoor Noise Source</i>
	120 dBA	
Jet fly-over at 300 meters		Rock concert
	110 dBA	
Pile driver at 30 meters	100 dBA	
		Night club with live music
	90 dBA	
Large truck passes by at 15 meters		
	80 dBA	Noisy restaurant
		Garbage disposal at 1 meter
Gas lawn mower at 30 meters	70 dBA	Vacuum cleaner at 3 meters
Commercial/Urban area daytime		Normal speech at 1 meter
Suburban expressway at 90 meters	60 dBA	
Suburban daytime		Active office environment
	50 dBA	
Urban area nighttime		Quiet office environment
	40 dBA	

<i>Common Outdoor Noise Source</i>	<i>Noise Level (dBA)</i>	<i>Common Indoor Noise Source</i>
Suburban nighttime		
Quiet rural areas	30 dBA	Library
		Quiet bedroom at night
Wilderness area	20 dBA	
	10 dBA	Quiet recording studio
Threshold of human hearing	0 dBA	Threshold of human hearing

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### 2 **3.9.2.1.2 Noise Descriptors**

3 Because sound levels can vary markedly over a short period of time, a method for  
 4 describing either the average character of the sound or the statistical behavior of the  
 5 variations is utilized. Most commonly, environmental sounds are described in terms  
 6 of an average level that has the same acoustical energy as the summation of all the  
 7 time-varying events. This energy-equivalent sound/noise descriptor is called  $L_{eq}$ . A  
 8 common averaging period is hourly, but  $L_{eq}$  can describe any series of noise events of  
 9 arbitrary duration. The scientific instrument used to measure noise is the sound level  
 10 meter. Sound level meters can accurately measure environmental noise levels to  
 11 within approximately plus or minus 1 dBA. Two metrics describe the 24-hour  
 12 average,  $L_{dn}$  and CNEL. Both include penalties for noise during the nighttime, but  
 13 CNEL also penalizes noise during the evening. CNEL and  $L_{dn}$  are normally within 1  
 14 dBA of each other and are used interchangeably in this section.

### 15 **3.9.2.1.3 Human Response to Noise**

16 Studies have shown that under controlled conditions in an acoustics laboratory, a  
 17 healthy human ear is able to discern changes in sound levels of 1 dBA. In the normal  
 18 environment, the healthy human ear can detect changes of about 2 dBA; however, it  
 19 is widely accepted that changes of 3 dBA in the normal environment are considered  
 20 just noticeable to most people. A change of 5 dBA is readily perceptible, and a  
 21 change of 10 dBA is perceived as being twice as loud.

### 22 **Noise and Health**

23 A number of studies have linked increases in noise with health effects, including  
 24 hearing impairment, sleep disturbance, cardiovascular effects, psychophysiological  
 25 effects, and potential impacts to fetal development (Babisch 2005). Potential health  
 26 effects appear to be caused by both short and long term exposure to very loud noises

1 and long term exposure to lower levels of sound. Acute sounds of  $L_{AF} > 120$  dB can  
2 cause mechanical damage to hair cells of the cochlea (the auditory portion of the  
3 inner ear) and cause hearing impairment (Babisch 2005). As discussed in Section  
4 3.9.2.1.1,  $L_{AF} > 120$  dB is equivalent to a rock concert or a plane flying overhead at  
5 300 meters. The World Health Organization and the EPA consider  $L_{Aeq} = 70$  dBA to  
6 be a safe daily average noise level for the ear. However, even this “ear-safe” level  
7 may cause disturbance to sleep and concentration and may be linked to chronic health  
8 impacts such as hypertension and heart disease (Babisch 2006). A number of studies  
9 have looked at the potential health effects from the sound of chronic lower noise  
10 levels, such as traffic, especially as these noise levels affect children. In a study of  
11 school children in Germany, blood pressure was found to be 10 mmHg higher in a  
12 group of students exposed to road traffic noise from high traffic transit routes  
13 (Babisch 2006). A study by Kwanda (2004) showed that in pregnant women,  
14 exposure to airplane noise was found to be associated with decreased fetal body  
15 weight.

#### 16 3.9.2.1.4 Sound Propagation

17 When sound propagates over a distance, it changes in both level and frequency  
18 content. The manner in which noise is reduced with distance depends on the  
19 following important factors.

20 **Geometric spreading.** Sound from a single source (i.e., a *point* source) radiates  
21 uniformly outward as it travels away from the source in a spherical pattern. The  
22 sound level attenuates (or drops off) at a rate of 6 dBA for each doubling of distance.  
23 Highway noise is not a single, stationary source of sound. The movement of vehicles  
24 on a highway makes the source of the sound appear to emanate from a line (i.e., a  
25 *line* source) rather than from a point. This results in cylindrical spreading rather than  
26 the spherical spreading resulting from a point source. The change in sound level  
27 from a line source is 3 dBA per doubling of distance.

28 **Ground absorption.** Usually the noise path between the source and the observer is  
29 very close to the ground. Noise attenuation from ground absorption and reflective  
30 wave canceling adds to the attenuation because of geometric spreading.  
31 Traditionally, the excess attenuation has also been expressed in terms of attenuation  
32 per doubling of distance. This approximation is done for simplification only; for  
33 distances of less than 60 meters (300 feet), prediction results based on this scheme  
34 are sufficiently accurate. For acoustically hard sites (i.e., sites with a reflective  
35 surface, such as a parking lot or a smooth body of water) between the source and the  
36 receiver, no excess ground attenuation is assumed. For acoustically absorptive, or  
37 soft, sites (i.e., sites with an absorptive ground surface, such as soft dirt, grass, or  
38 scattered bushes and trees), an excess ground attenuation value of 1.5 dBA per  
39 doubling of distance is normally assumed. When added to the geometric spreading,  
40 the excess ground attenuation results in an overall drop-off rate of 4.5 dBA per  
41 doubling of distance for a line source and 7.5 dBA per doubling of distance for a  
42 point source.

1           **Atmospheric effects.** Research by Caltrans and others has shown that atmospheric  
2 conditions can have a major effect on noise levels. Wind has been shown to be the  
3 single most important meteorological factor within approximately 150 meters (500  
4 feet), whereas vertical air temperature gradients are more important over longer  
5 distances. Other factors, such as air temperature, humidity, and turbulence, also have  
6 major effects. Receivers located downwind from a source can be exposed to  
7 increased noise levels relative to calm conditions, whereas locations upwind can have  
8 lower noise levels. Increased sound levels can also occur because of temperature  
9 inversion conditions (i.e., increasing temperature with elevation).

10           **Shielding by natural or human-made features.** A large object or barrier in the  
11 path between a noise source and a receiver can substantially attenuate noise levels at  
12 the receiver. The amount of attenuation provided by this shielding depends on the  
13 size of the object, proximity to the noise source and receiver, surface weight, solidity,  
14 and the frequency content of the noise source. Natural terrain features (such as hills  
15 and dense woods) and human-made features (such as buildings and walls) can  
16 substantially reduce noise levels. Walls are often constructed between a source and a  
17 receiver specifically to reduce noise. A barrier that breaks the line of sight between a  
18 source and a receiver will typically result in at least 5 dB of noise reduction. A  
19 higher barrier may provide as much as 20 dB of noise reduction.

## 20   **3.9.2.2   Existing Noise Environment**

### 21   **3.9.2.2.1   Existing Noise Measurements**

22           On three separate days during the daytime hours in November 2007, short-term noise  
23 measurements were taken at 15 measurements sites around the Port and the  
24 surrounding neighborhoods of San Pedro in order to establish the existing ambient  
25 noise profile in the vicinity of the Port of Los Angeles. There were three objective  
26 reasons for choosing a measurement site. First, measurement sites were chosen near  
27 noise sensitive land uses that would potentially be impacted by proposed project-  
28 related noise. Noise-sensitive land uses are generally defined as locations where  
29 people reside or where the presence of unwanted sound could adversely affect the use  
30 of the land. Noise-sensitive land uses typically include residences, hospitals, schools,  
31 guest lodging, libraries, and certain types of passive recreational uses. Noise  
32 sensitive land uses within 500 feet of the project site include:

- 33           ■ residences and hotels along Harbor Boulevard, Via Cabrillo Marina, Crescent  
34           Avenue, and Shoshonean Road;
- 35           ■ passive parks such as John S. Gibson Jr. Park;
- 36           ■ live-aboards in the Cabrillo Way Marina;
- 37           ■ YWCA of the Harbor area, which includes a day care center at 100 W. 5<sup>th</sup> Street;  
38           and
- 39           ■ churches such as the Norwegian Seaman's Church on 1035 South Beacon Street.

1 The measurements obtained represent the existing baseline noise level for all nearby  
2 sensitive receivers and are used as a basis for comparison when determining noise  
3 impacts affecting those receivers. Second, measurement sites were chosen because  
4 they were near current or future project-related noise generating sources. In the case  
5 of existing noise sources, the close proximity of the measurement site to the noise  
6 source provided an opportunity to quantify the noise energy emanating from the  
7 source, and the metrics obtained from the noise measurement was subsequently used  
8 in the analysis to determine noise impacts caused by the noise generator at various  
9 distances from the source. In some cases, measurement sites were near both the  
10 sensitive receivers and the noise source. Lastly, some of the measurement sites were  
11 also chosen to provide a representative sampling of various locations scattered  
12 throughout the district of San Pedro in order to provide adequate noise-measurement  
13 coverage and to estimate the variability of noise levels within the vicinity of the Port.

14 A Brüel & Kjær Model 2236 automated digital noise acquisition system and sound  
15 meter was used to measure the noise levels. The sound meter was mounted on a  
16 tripod, and large windscreen covered the sound meter's microphone to dampen the  
17 effect of unwanted wind-generated noise. For each measurement site, 20 minutes of  
18 data were collected and stored internally within the sound meter for subsequent  
19 downloading and post-processing on a computer. Both before and after each set of  
20 measurements were taken, a Brüel & Kjær calibrator with calibrations traceable to  
21 the National Institute of Standards and Technology was used to calibrate the sound  
22 meter to ensure that the sound levels were accurately measured. Data samples were  
23 collected at 1-second intervals. At the conclusion of each set of measurements, the  
24  $L_{eq}$ ,  $L_{min}$ ,  $L_{max}$ , L10, L50 and L90 noise descriptors for the full 20-minute time period  
25 were recorded on a data log and then the internal buffer on the sound meter was reset  
26 to prepare it for recording noise levels at the next measurement site. Prevailing  
27 weather conditions at each site were noted along with any other factors that might  
28 adversely alter the quality of the noise measurements.

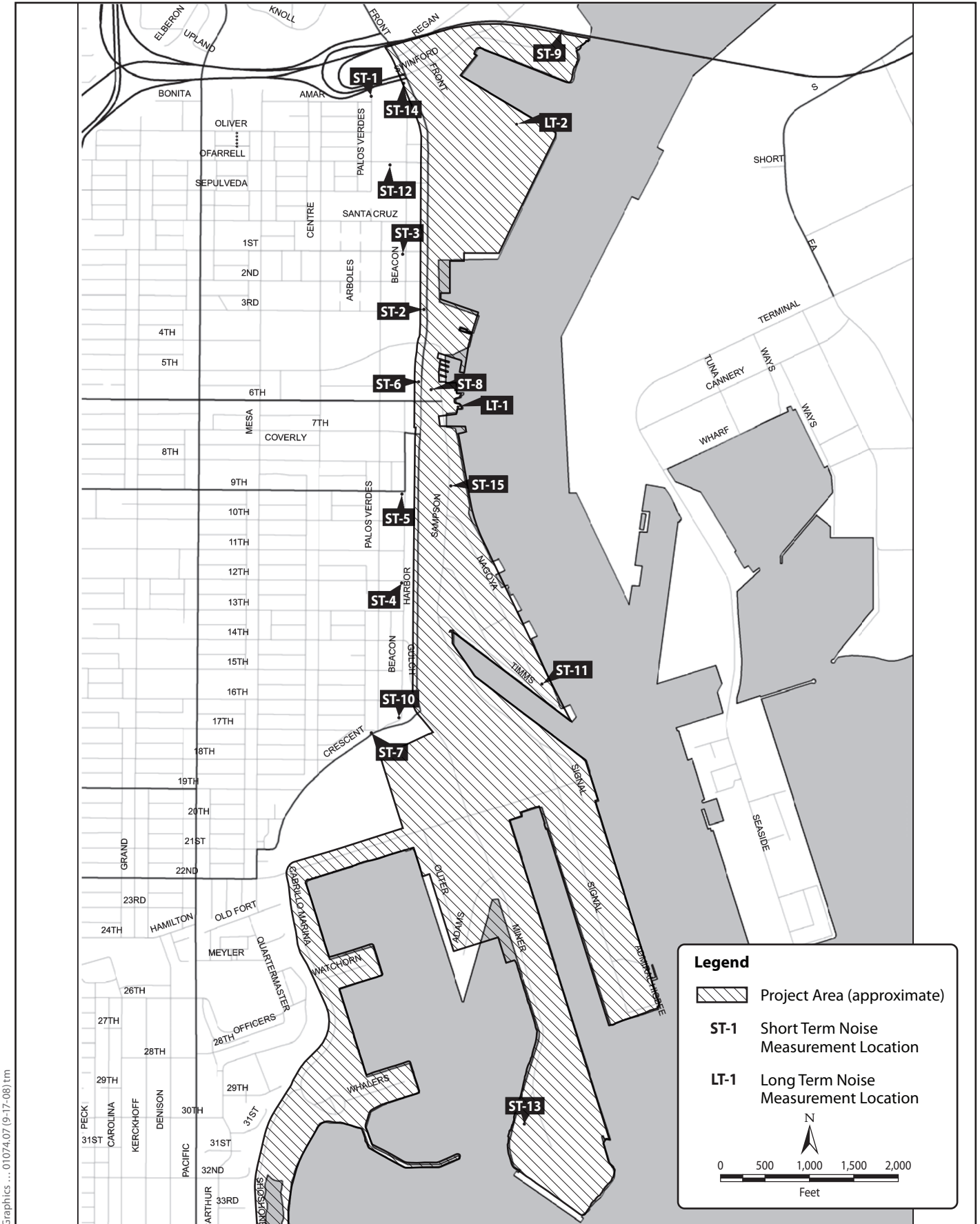
29 Starting on January 18, 2008 and ending on January 19, 2008 long-term (24+ hour)  
30 measurements were taken at two locations near the harbor. The same set of  
31 procedures that was used to conduct the short-term measurements was also used for  
32 conducting the long-term measurements, except the long-term measurements were  
33 unattended during their measurement period. At the completion of all noise  
34 measurements, a comprehensive data analysis was undertaken to identify and  
35 quantify distinct noise events that had been witnessed to occur during the  
36 measurement period. Requisite statistical metrics that were not initially output by the  
37 sound meter during the measurement cycle were then calculated from the data. The  
38 results of those measurements are displayed in Table 3.9-3, and the locations are  
39 displayed in Figure 3.9-1.

40 It should be noted that since nothing within the proposed project area has changed  
41 substantially between December 2006 and January 2008 that would cause the noise  
42 environment to change significantly, all noise measurements that were gathered for  
43 the analysis of this report provide an accurate portrayal of the noise environment in  
44 the district of San Pedro as it existed in December 2006. Because December 2006  
45 represents the baseline date, the noise measurements displayed in Table 3.9-3 will  
46 represent the baseline ambient noise levels.

1 **Table 3.9-3. Short-Term and Long-Term Noise Measurement Data (dBA)**

<i>Site</i>	<i>Location</i>	<i>Date</i>	<i>Time</i>	$L_{max}$	$L_{min}$	$L_{(1)}$	$L_{(10)}$	$L_{(50)}$	$L_{(90)}$	$L_{eq}$
ST-1	At the north end of Palos Verdes Street where it ends in a cul-de-sac	11/13/2007	11:23	74.0	60.0	70.0	67.5	65.0	63.0	65.7
ST-2	At the corner of Harbor Boulevard and 3 <sup>rd</sup> Street	11/13/2007	11:56	82.9	47.7	76.8	72.0	65.5	56.5	68.3
ST-3	At the corner of Beacon Street and 1 <sup>st</sup> Street	11/13/2007	12:31	78.9	48.0	70.4	64.5	58.0	53.0	61.6
ST-4	At the corner of Beacon Street and 12 <sup>th</sup> Street	11/13/2007	13:35	83.6	48.7	71.5	64.0	56.0	51.0	62.6
ST-5	At the corner of Beacon Street and 9 <sup>th</sup> Street	11/13/2007	14:04	80.7	50.6	71.6	65.5	58.5	53.5	62.4
ST-6	On Harbor Boulevard in front of the Sunrise Hotel	11/16/2007	11:11	89.2	55.4	79.5	74.0	64.5	57.5	70.4
ST-7	At the corner of 17 <sup>th</sup> Street and Crescent Avenue	11/16/2007	12:09	81.2	44.5	71.8	63.0	53.5	46.5	60.7
ST-8	Near the 6 <sup>th</sup> Street/Downtown Waterfront Red Car Station	11/16/2007	12:40	74.2	51.0	70.0	62.5	57.5	53.5	60.2
ST-9	Under the Vincent Thomas Bridge near the Catalina terminus building	11/16/2007	13:26	82.1	62.4	78.8	76.0	72.0	68.5	73.3
ST-10	At the south end of Beacon Street before it merges into Crescent Avenue	11/16/2007	15:20	71.5	48.1	64.8	58.5	52.5	50.0	55.8
ST-11	At the south end of Ports O'Call adjacent to a grass field	11/16/2007	14:48	67.0	50.1	64.4	56.0	52.5	51.0	54.9
ST-12	On O'Farrell Street west of Beacon Street adjacent to the Caltrans Lot.	11/28/2007	11:46	84.5	54.0	71.6	62.0	58.5	56.0	62.1
ST-13	Near the south end of Miner Street	11/28/2007	12:23	73.4	42.7	65.0	54.0	49.0	44.5	53.9





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**Figure 3.9-1**  
**Short-Term Measurement Locations**

Site	Location	Date	Time	$L_{max}$	$L_{min}$	$L_{(1)}$	$L_{(10)}$	$L_{(50)}$	$L_{(90)}$	$L_{eq}$
ST-14	On a walkpath near the corner of Swinford Street and Harbor Boulevard	11/28/2007	13:51	80.0	61.7	77.2	73.0	68.5	65.0	70.2
ST-15	On Sampson Way near the Fisherman's Seafood Restaurant	11/28/2007	14:35	77.2	52.1	70.7	65.0	59.0	55.0	62.0
LT-1	On the rooftop of the Los Angeles Maritime Museum	01/18/2008– 01/19/2008	11:27– 16:27	89.4	48.0	68.7	61.5	57.6	53.2	60.3
LT-2	On the rooftop of the Terminal 93 building	01/18/2008– 01/19/2008	11:07– 17:46	83.5	53.1	67.9	64.8	62.5	55.9	62.6

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Mapped locations shown in Figure 3.9-1 are described in the following paragraphs.

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### **ST-1: At the north end of Palos Verdes Street**

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Site ST-1 is located in a residential area on the south side of a chain-link fence at the north end of Palos Verdes Street where the street ends in a cul-de-sac prior to reaching Swinford Street. A clear view of the Vincent Thomas Bridge could be seen to the east. This site is about 20 feet higher in elevation than Swinford Street. Even though Palos Verdes Street does not experience much traffic, the large volume of traffic traveling along Swinford Street accounts for the majority of noise measured at this site. Because of its close proximity to Swinford Street, the  $L_{eq}$  at ST-1 was 65.7 dBA. This is about 3 dB greater than what was measured for similar neighborhoods. A loud car passed by and generated an  $L_{max}$  of 74.0 dBA.

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### **ST-2: At the corner of Harbor Boulevard and 3<sup>rd</sup> Street**

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Site ST-2 is located at the northwestern corner of Harbor Boulevard and 3<sup>rd</sup> Street, adjacent to the south end of an apartment complex. Because this site is right next to Harbor Boulevard, the measured noise levels were higher than at Site ST-1. Harbor Boulevard experiences a high volume of trucks, buses, and cars. All of these contributed to the background noise which was measured as having an  $L_{eq}$  of 68.3 dBA. Despite the fact that the average noise level was high, the  $L_{min}$  was 47.7 dBA. The times of relative quiet were due to the traffic lulls on Harbor Boulevard.

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### **ST-3: At the corner of Beacon Street and 1<sup>st</sup> Street**

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Site ST-3 is offset to the west from Harbor Boulevard by one short city block. Measurements were taken near the southwestern corner of 1<sup>st</sup> Street and Beacon

1 Street in front of an apartment complex. The 1<sup>st</sup> Street and Beacon Street intersection  
2 was not extremely busy, but a portion of Harbor Boulevard was still visible from this  
3 measurement site despite being obstructed by buildings that were interspersed  
4 between Harbor Boulevard and Beacon Street. The traffic traveling along Harbor  
5 Boulevard accounts for most of the noise occurring at this site. The loudest noise at  
6 this site was 78.9 dBA; it emanated from a truck traveling along Harbor Boulevard as  
7 it passed 1<sup>st</sup> Street. Since the distance of the centerline of Harbor Boulevard to Site  
8 ST-2 was much greater than the distance to Site ST-3, the sound level at ST-3 was  
9 significantly lower than what was measured at Site ST-2. The  $L_{eq}$  at this site was  
10 61.6 dBA.

#### 11 **ST-4: At the corner of Beacon Street and 12<sup>th</sup> Street**

12 The southwestern corner of Beacon Street and 12<sup>th</sup> Street was the location for Site  
13 ST-4. This section of Beacon Street was not extremely busy with traffic, but Harbor  
14 Boulevard traffic could still be heard despite the fact that Harbor Boulevard was  
15 behind a cliff and 30 feet lower in elevation than the measurement site. A passing  
16 SUV generated an  $L_{max}$  of 83.6 dBA. A mother and her three children walked past  
17 the meter on two occasions, but the noise contribution was not significant. A  
18 helicopter flew near the site on three separate occasions and was audible, but not  
19 loud. The  $L_{eq}$  at this site, which was 62.6 dBA, was close to that which was  
20 measured at Site ST-3 (61.6 dBA).

#### 21 **ST-5: Just north of the Healthview Physical Rehabilitation** 22 **Center**

23 North of the Healthview Physical Rehabilitation Center on 9<sup>th</sup> Street just west of  
24 Beacon Street is where noise measurements were taken for Site ST-5. This site was  
25 located about 1,000 feet north of Site ST-4 on Beacon Street. The  $L_{eq}$  at this site,  
26 which was 62.4 dBA, differed from the  $L_{eq}$  at Site ST-4 by only 0.2 dB. The  
27 similarity between the  $L_{eq}$  noise levels measured at these two sites is consistent with  
28 the fact that the topography and traffic flow of these two sites was also very similar.  
29 Just like Site ST-4, the loudest noise occurring at his site was generated by a passing  
30 SUV; it generated an  $L_{max}$  value of 80.7 dB. There appeared to be more pedestrian  
31 activity in the vicinity of this site than at Site ST-4, presumably due to the proximity  
32 of this site to the rehabilitation center; however, since most of the pedestrians didn't  
33 actually come close to the sound meter, their impact on the measured sound level was  
34 not significant.

#### 35 **ST-6: In front of the Sunrise Hotel**

36 The location of measurement Site ST-6 was on the sidewalk in front of the Sunrise  
37 Hotel on the west side of Harbor Boulevard. This site was very noisy due to the large  
38 volume of traffic that was traveling along Harbor Boulevard; this site had the highest  
39 maximum noise level of any of the measurement sites. An  $L_{max}$  value of 89.2 dBA

1 recorded at this site was due to a very large, heavy truck that was traveling along  
2 Harbor Boulevard and passed by the sound meter. This site also has the largest  
3 spread between the  $L_{\min}$  and  $L_{\max}$  values of any of the sites measured; the difference  
4 between the minimum and maximum values is 33.8 dB. The nearly constant stream  
5 of traffic on Harbor Boulevard produced an average sound level of 70.4 dBA.

### 6 **ST-7: At the corner of 17<sup>th</sup> Street and Crescent Avenue**

7 Noise measurements were taken for Site ST-7 where 17<sup>th</sup> Street and Crescent Avenue  
8 cross at an acute angle on the western corner of the intersection, adjacent to a  
9 residence. Crescent Avenue is not a main thoroughfare for traffic, so the measured  
10  $L_{\text{eq}}$  of 60.7 dBA is consistent with the low traffic flow that was observed at this site.  
11 Traffic passing through the Crescent Avenue and 17<sup>th</sup> Street intersection had to stop  
12 at a stop sign. Numerous pickup trucks were observed traveling along Crescent  
13 Avenue, and one of them produced the maximum noise level of 81.2 dBA as it  
14 passed by.

### 15 **ST-8: Near the 6<sup>th</sup> Street/Downtown Waterfront Red Car** 16 **Station**

17 Noise measurements were taken for Site ST-8 about 30 feet north of the 6<sup>th</sup> Street/  
18 Downtown Waterfront Red Car station in front of a chain link fence facing the train  
19 tracks. The traffic noise that emanated from Harbor Boulevard was attenuated by the  
20 presence of the American Merchant Marines Veterans Memorial due to the  
21 obstructed view of Harbor Boulevard. During the measurement period, two  
22 Waterfront Red Car trains passed by the sound meter; one train was traveling north,  
23 and the other was traveling south. The crossing bell signaled the arrival of the  
24 northbound train, and it produced a momentary noise level of 70.6 dBA. The train  
25 horn sounded and produced the maximum noise level of 72.5 dBA. The northbound  
26 train arrived at the 6<sup>th</sup> Street station and departed. As the northbound train was  
27 leaving the station, the southbound train arrived at the station. The total time that the  
28 trains were close enough to the sound meter to register noise levels above the  
29 ambient background noise was a little less than 2 minutes. During that 2-minute  
30 period, the average noise level from all sources reached 65.4 dBA. During the  
31 remaining 18 minutes when there were no trains nearby, the noise level averaged  
32 58.9 dBA. While the trains were passing, the noise level increased by almost 7 dB  
33 above what had existed without the trains being present. The averaged net effect of  
34 the train noise over the 20-minute measurement period was significantly lower than 7  
35 dB, however, due to the fact that trains were near the sound meter only 10% of the  
36 time. The combined effect of 18 minutes without train noise and 2 minutes with train  
37 noise produced an average noise level of 60.2 dBA. The presence of the train  
38 effectively raised the average noise level by about 1.3 dB above ambient levels.

**1 ST-9: Under the Vincent Thomas Bridge**

2 Site ST-9 was located in a parking lot directly under the Vincent Thomas Bridge near  
3 the Catalina Terminus Building. There was a constant stream of vehicles flowing  
4 across the bridge, and the sound of the traffic streaming overhead constituted the  
5 predominate source of noise at this site. The sound of traffic crossing the bridge  
6 made a distinctively different sound than vehicles traveling on a highway. In  
7 addition to the noise resulting from the contact of the tire rubber with the top surface  
8 of the bridge, the whole bridge shook and rattled. This site was also located close to  
9 a helicopter pad, so when the helicopters took off and landed, they could be heard as  
10 well. However, the higher noise levels generated by the bridge effectively masked  
11 most of the helicopter noise. This site had the highest average noise level of all the  
12 measurement sites; the  $L_{eq}$  was 73.3 dBA. This site also had the highest minimum  
13 noise level with an  $L_{min}$  value of 62.4 dBA.

**14 ST-10: At the south end of Beacon Street**

15 At the far southwestern end of Beacon Street just prior to where it curves west and  
16 merges into Crescent Avenue was the location of Site ST-10. This section of the  
17 road was under temporary construction. Measurements at this site were started, but a  
18 construction crew began moving heavy equipment near the sound meter, so noise  
19 measurements had to be stopped. Once the construction crew had gone home for the  
20 day, the measurements were repeated. This section of road was not well traveled,  
21 and there weren't many vehicles that passed by during the measurement period. This  
22 site was somewhat breezy. The Goodyear Blimp flew near the site, but it did not  
23 make a significant noise impact. The measured  $L_{eq}$  was 48.1 dBA. Despite being so  
24 close to the road, the sound meter recorded an  $L_{max}$  of only 71.5 dBA.

**25 ST-11: At the south end of the Ports O'Call**

26 Measurement Site ST-11 was located at the south end of the Ports O'Call near the  
27 Jankovich Fueling Station in front of a chain link fence adjacent to a grass field.  
28 There was not much traffic noise except that from a car that was driving through the  
29 parking lot; it generated an  $L_{max}$  of 67.0. A car alarm also went off briefly and was  
30 audible, though it wasn't loud. Birds were chirping, and a helicopter and airplane  
31 were heard as well. This site had the second-lowest average noise level. The lack of  
32 activity around this site translated into a quiet  $L_{eq}$  of 54.9 dBA.

**33 ST-12: On O'Farrell Street west of Beacon Street**

34 Site ST-12 is in a residential area between Beacon Street and Palos Verdes Street on  
35 the north side of O'Farrell Street. This site was in front of a chain link fence that  
36 overlooked the Caltrans lot below. The Vincent Thomas Bridge was visible to the  
37 northeast. O'Farrell Street slopes upward to the west, so the elevation of this site was  
38 higher than Harbor Boulevard. A pickup truck passed by the sound meter, producing

1 an  $L_{\max}$  of 84.5 dBA. A car across the street from the sound meter sounded its horn  
2 three times during the measurement period. These honks generated momentary  
3 sound levels of about 65 dBA. A train was heard in the distance, but the noise it  
4 generated did not stand out above the prevailing noise levels. The average noise  
5 level at this site was consistent with other sites that were similarly situated with  
6 respect to Harbor Boulevard. The  $L_{\text{eq}}$  was 62.1 dBA.

### 7 **ST-13: Near the south end of Miner Street**

8 Site ST-13 is located just west of Miner Street near the far south end of the Port of  
9 Los Angeles near the San Pedro Boatworks, about 50 feet east of several storage  
10 sheds. This was the quietest of all sites measured because this site was far away from  
11 highly traveled roads and only infrequently did cars drive by on Miner Street. This  
12 low-activity environment produced an  $L_{\text{eq}}$  of 53.9 dBA and an  $L_{\min}$  of 42.7 dBA.  
13 Since the waterfront was not too far from the measurement site, seagulls could be  
14 heard. A brief burst of laughter from a person near one of the docked boats was  
15 audible, but the noise it generated was not significantly higher than most of the other  
16 distinct sounds that occurred during the measurement period. A helicopter flew  
17 directly over the measurement site, momentarily altering the sound level and  
18 producing an  $L_{\max}$  of 73.4 dBA.

### 19 **ST-14: Near the corner of Swinford Street and Harbor** 20 **Boulevard**

21 On a walk path near the corner of Swinford Street and Harbor Boulevard was the  
22 location of Site ST-14. There was a high percentage of heavy trucks seen traveling  
23 along Swinford Street, and one of them generated the  $L_{\max}$  of 80.0. Since Swinford  
24 Street accepts traffic that exits off the Harbor Freeway as well as traffic that is  
25 destined for the Vincent Thomas Bridge, there was a constant supply of vehicles  
26 traveling along this roadway. This site had the second highest minimum noise level  
27 with an  $L_{\min}$  of 61.7 dBA. The  $L_{\text{eq}}$  at this site was 70.2 dBA.

### 28 **ST-15: On Sampson Way near the Fisherman's Seafood** 29 **Restaurant**

30 Noise measurements were taken for Site ST-15 about 50 feet north of the  
31 Fisherman's Seafood Restaurant and about 370 feet east of Harbor Boulevard on the  
32 east side of Sampson Way. Sampson Way is the street that leads into the Ports O'Call,  
33 and although Sampson Way didn't experience a high volume of traffic during the  
34 measurement period, the interarrival time between passing cars wasn't long. A  
35 pickup truck motoring along Sampson Way produced an  $L_{\max}$  of 77.2 dBA as it  
36 passed the sound meter. Other ambient noises included a man on a loudspeaker,  
37 seagulls, a helicopter, and music from the Fisherman's Seafood Restaurant. The  
38 volume of the music was not perceived as being louder than passing vehicles at their  
39 closest approach, so it was not possible to estimate the noise contribution of the

1 music to the total overall noise level. The  $L_{eq}$ , which was 62.0 dBA at this site, was  
2 not significantly different from the average noise level at similarly busy measurement  
3 sites.

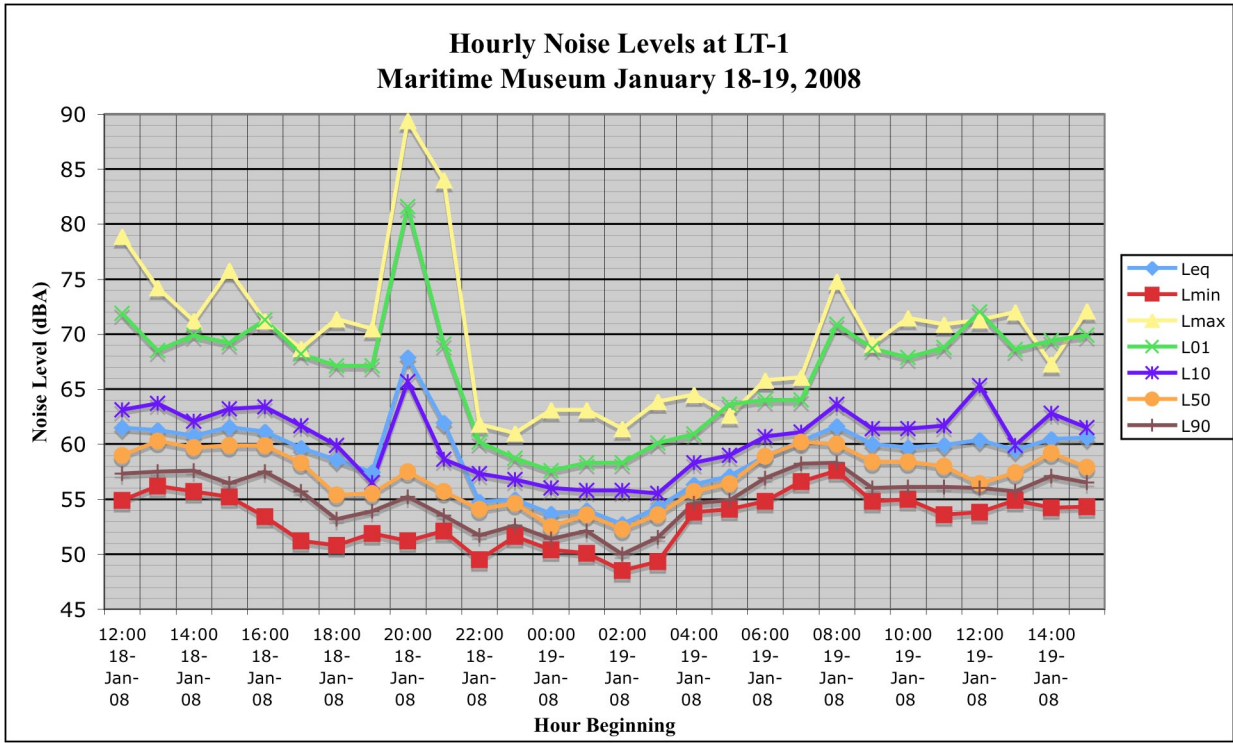
#### 4 **LT-1: On the rooftop of the Los Angeles Maritime Museum**

5 Site LT-1 was located just east of the access door on the rooftop of the Los Angeles  
6 Maritime Museum. The sound meter was set up around 11:37 a.m. of January 18.  
7 The weather was clear. The meter was retrieved on January 19 at 4:26 p.m. Around  
8 4:12 p.m. on January 19, the Norwegian Star departed from Berth 92 and blew its  
9 horn. The sound of the horn was measured at 76.3 dBA. No other significant noise  
10 events were witnessed during the setup and retrieval period. The sound meter  
11 recorded an  $L_{max}$  of 89.4 dBA at 8:46 p.m. on January 18. It is unknown what the  
12 source of the noise was. The quietest period, 48.0 dBA, was at 2:04 a.m. on January  
13 19. Noise measurements were taken for close to 29 hours, and for that time period  
14 the  $L_{eq}$  registered 60.3 dBA. This value is only 0.1 dB different than the noise value  
15 measured at ST-8, which is about 320 feet away from LT-1. For the 24-hour time  
16 period between 12 p.m. on January 18 through 12 p.m. on January 19, the CNEL at  
17 this location was 64.8 dBA.

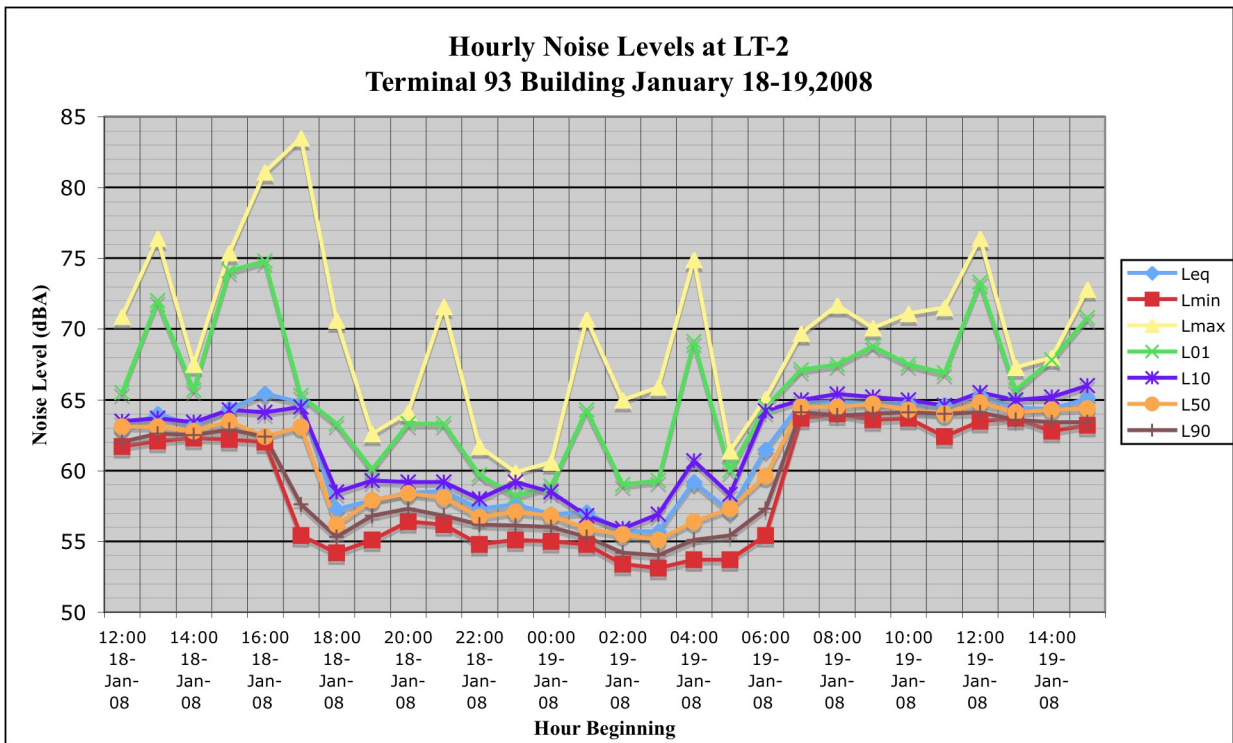
#### 18 **LT-2: On the rooftop of the Terminal 93 Building**

19 Site LT-2 was located about 200 feet northwest of the southeast access stairs on the  
20 rooftop of the Terminal 93 building. This site is adjacent to where the cruise ships  
21 dock at Berth 93. During the measurement period, a cruise ship arrived at Berth 93  
22 and departed, and another one arrived but did not depart prior to the conclusion of the  
23 measurement period due to a significant delay in the ship's schedule. An  $L_{max}$  of  
24 83.5 dBA was recorded at 5:38 p.m. on January 18. The Monarch of the Seas was in  
25 port at Berth 93 during this period, and it departed in the evening of January 18. It is  
26 not known what actually caused this  $L_{max}$ , but its timing does correspond with the  
27 departure time of the ship. The graph of the hourly noise level at Site LT-2 shows  
28 that the  $L_{eq}$  dropped from about 65 dBA to 57 dBA between the hours of 5:00 and  
29 6:00 p.m. and remained at this level until around 7:00 a.m. the following morning,  
30 when the  $L_{eq}$  rose to about 65 dBA. These changes in noise level correspond with the  
31 departure and arrival times of the cruise ships. An  $L_{min}$  of 53.1 dBA was recorded at  
32 3:14 a.m. on January 19. The  $L_{eq}$  that was recorded during the measurement period  
33 registered 62.6 dBA. For the 24-hour time period between 12:00 p.m. on January 18  
34 through 10:00 p.m. on January 19, the CNEL at this location was 65.9 dBA.

35 A graph of the noise metrics for the two long-term measurement sites is shown in  
36 Figure 3.9-2 and Figure 3.9-3. These graphs show the noise metrics plotted on an  
37 hourly basis for a 28-hour period. The 28-hour time period was chosen because it  
38 contains the greatest number of whole hours starting at the hour during the time  
39 interval where the sound meters at both measurement Sites LT-1 and LT-2 were  
40 recording data.



**Figure 3.9-2**  
**Hourly Noise Levels at LT-1**



**Figure 3.9-3**  
**Hourly Noise Levels at LT-2**

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### 3.9.2.2.2 Existing Roadway Noise Levels

The highway noise levels projected in this section were computed using the Traffic Noise Model (TNM Version 2.5) computer program. The TNM program uses traffic volume by vehicle type, vehicle speed, roadway geometry, and terrain type to compute the  $L_{eq}$ . To obtain the existing noise level using the CNEL metric, the traffic volumes that were input into the TNM program were appropriately scaled such that the resulting predicted output noise levels generated by TNM would automatically be CNEL instead of  $L_{eq}$ . Traffic volumes were computed from the existing weekday peak AM turning movements contained in the May 2008 San Pedro Waterfront Traffic Study supplied by Fehr & Peers/Kaku Associates (Appendix M) for 36 intersections in the vicinity of San Pedro. The existing CNEL noise levels along those roadway segments at 50 feet from the centerline of the roadway are shown in Table 3.9-4. ADT is also provided in Appendix K.

**Table 3.9-4.** Modeled Existing Roadway Traffic Noise Levels

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing ADT</i>	<i>Existing CNEL @ 50 ft</i>
<b>1<sup>st</sup> Street</b>			
East of Harbor Boulevard	30	513	52.9
Harbor Boulevard to Centre Street	30	1,388	56.8
Centre Street to Pacific Avenue	30	4,213	61.4
Pacific Avenue to Grand Avenue	30	5,500	62.5
Grand Avenue to Gaffey Street	30	6,738	63.5
Gaffey Street to Cabrillo Avenue	30	19,863	68.0
<b>3<sup>rd</sup> Street</b>			
East of Harbor Boulevard	30	0	N/A
Harbor Boulevard to Centre Street	30	2,013	58.3
<b>5<sup>th</sup> Street</b>			
East of Harbor Boulevard	30	538	56.1
Harbor Boulevard to Centre Street	30	5,838	62.8
Centre Street to Pacific Avenue	30	5,850	62.8
Pacific Avenue to Grand Avenue	30	4,675	61.8
Grand Avenue to Gaffey Street	30	6,363	63.1
Gaffey Street to Cabrillo Avenue	30	8,138	64.1
<b>6<sup>th</sup> Street</b>			
Sampson Way to Harbor Boulevard	30	1,450	56.6
Harbor Boulevard to Centre Street	30	1,938	58.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing ADT</i>	<i>Existing CNEL @ 50 ft</i>
Centre Street to Pacific Avenue	30	2,500	59.2
Pacific Avenue to Grand Avenue	30	2,038	58.3
Grand Avenue to Gaffey Street	30	2,638	59.3
Gaffey Street to Cabrillo Avenue	30	2,513	59.1
<b>7<sup>th</sup> Street</b>			
Sampson Way to Harbor Boulevard	30	0	52.6
Harbor Boulevard to Centre Street	30	5,550	62.6
Centre Street to Pacific Avenue	30	2,850	59.8
Pacific Avenue to Grand Avenue	30	3,275	60.4
Grand Avenue to Gaffey Street	30	5,850	62.8
Gaffey Street to Cabrillo Avenue	30	8,413	64.2
<b>9<sup>th</sup> Street</b>			
Centre Street to Pacific Avenue	35	4,075	62.7
Pacific Avenue to Grand Avenue	35	7,475	65.2
Grand Avenue to Gaffey Street	35	10,150	66.5
Gaffey Street to Patton Avenue	35	13,625	67.8
Patton Avenue to Western Avenue	35	7,288	65.1
Western Avenue to Chandeleur Drive	35	7,238	65.1
<b>13<sup>th</sup> Street</b>			
Centre Street to Pacific Avenue	25	2,863	58.7
Pacific Avenue to Grand Avenue	25	5,350	61.4
Grand Avenue to Gaffey Street	25	10,325	64.0
Gaffey Street to Meyler Street	25	11,413	64.6
<b>17<sup>th</sup> Street</b>			
Centre Street to Pacific Avenue	35	3,400	61.8
Pacific Avenue to Grand Avenue	35	6,563	64.5
Grand Avenue to Gaffey Street	35	5,688	64.0
Gaffey Street to Meyler Street	35	6,813	64.9
<b>19<sup>th</sup> Street</b>			
Mesa Street to Pacific Avenue	35	2,150	59.9
Pacific Avenue to Grand Avenue	35	2,813	61.0
Grand Avenue to Gaffey Street	35	4,750	63.3
Gaffey Street to Meyler Street	35	8,350	65.7

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing ADT</i>	<i>Existing CNEL @ 50 ft</i>
<b>22<sup>nd</sup> Street</b>			
Signal Place to Miner Street	25	2,000	57.3
Miner Street to Via Cabrillo Marina	25	8,626	63.4
Via Cabrillo Marina to Mesa Street	25	8,263	63.2
Mesa Street to Pacific Avenue	25	9,038	63.4
Pacific Avenue to Grand Avenue	25	5,538	61.5
Grand Avenue to Gaffey Street	25	6,425	62.0
Gaffey Street to Meyler Street	25	1,550	56.3
<b>25<sup>th</sup> Street</b>			
Gaffey Street to Patton Avenue	35	10,713	66.8
Patton Avenue to Western Avenue	35	13,075	67.6
Western Avenue to Moray Avenue	35	14,463	68.0
<b>110 Freeway</b>			
Harbor Boulevard On Ramp	50	8,100	69.6
Gaffey Street On Ramp	50	51,075	77.6
<b>Crescent Avenue</b>			
Sampson Way to Harbor Boulevard	30	0	48.6
Harbor Boulevard to 20 <sup>th</sup> Street	30	4,475	61.7
<b>Gaffey Street</b>			
Miraflores Avenue to Summerland Avenue	35	21,600	69.8
Summerland Avenue to 110 Freeway	35	17,588	69.4
110 Freeway to Sepulveda Street	35	67,150	74.5
Sepulveda Street to 1 <sup>st</sup> Street	35	62,988	74.3
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	43,613	72.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	41,925	72.6
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	37,638	72.2
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	36,588	72.0
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	32,438	71.6
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	31,813	71.5
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	29,138	71.0
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	29,388	71.2
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	25,700	70.5
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	22,050	69.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing ADT</i>	<i>Existing CNEL @ 50 ft</i>
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	19,000	69.3
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	18,513	69.1
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	15,038	68.3
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	14,675	68.1
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	14,975	68.2
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	13,475	67.7
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	6,438	64.6
<b>Gulch Road</b>			
Harbor Boulevard to Beacon Street	25	1,500	55.9
<b>Front Street</b>			
Pacific Avenue to Knoll Drive	35	4,588	63.1
Knoll Drive to 110 Freeway	35	8,325	65.8
<b>Harbor Boulevard</b>			
110 Freeway to Swinford Street	35	16,338	68.6
Swinford Street to Beacon Street	35	28,625	70.9
Beacon Street to O'Farrell Street	35	31,700	71.4
O'Farrell Street to Santa Cruz Street	35	30,550	71.3
Santa Cruz Street to 1 <sup>st</sup> Street	35	27,013	70.8
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	25,663	70.5
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	24,400	70.3
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	23,801	70.2
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	20,763	69.6
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	18,775	69.2
7 <sup>th</sup> Street to Gulch Road	35	13,213	67.7
Gulch Road to Crescent Avenue	35	12,975	67.5
<b>Miner Street</b>			
Crescent Avenue to 22 <sup>nd</sup> Street	35	8,944	66.0
South of 22 <sup>nd</sup>	35	975	57.0
<b>O'Farrell Street</b>			
Harbor Boulevard to Centre Street	25	1,575	56.2
<b>Pacific Avenue</b>			
Channel Street to Front Street	35	22,775	70.1
Front Street to Oliver Street	35	19,263	69.3

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing ADT</i>	<i>Existing CNEL @ 50 ft</i>
Oliver Street to 1 <sup>st</sup> Street	35	18,950	69.3
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	21,488	69.7
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	20,863	69.6
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	21,351	69.7
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	21,694	69.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	21,888	69.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	20,688	69.6
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	18,888	69.2
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	17,050	68.7
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	15,188	68.2
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	13,238	67.6
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	10,950	66.9
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	8,888	66.0
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	8,875	66.0
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	9,213	66.1
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	12,763	67.2
<b>Summerland Avenue</b>			
110 Freeway to Gaffey Street	35	9,475	65.9
Gaffey Street to Summerland Avenue	35	11,750	67.0
<b>Swinford Street</b>			
Front Street to Harbor Boulevard	35	1,525	60.5
Harbor Boulevard to 110 Freeway	35	19,725	68.9
<b>Via Cabrillo Marina</b>			
South of 22 <sup>nd</sup> Street	35	2,500	60.5
<b>Western Avenue</b>			
Bynner Drive to 9 <sup>th</sup> Street	35	24,425	70.3
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	27,825	70.9
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	14,050	68.0
25 <sup>th</sup> Street to Paseo del Mar	35	5,388	63.8

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Table 3.9-4 shows the major noise corridors in the area occur along 1<sup>st</sup> Street, 3<sup>rd</sup> Street, 5<sup>th</sup> Street, 6<sup>th</sup> Street, 7<sup>th</sup> Street, 9<sup>th</sup> Street, 13<sup>th</sup> Street, 17<sup>th</sup> Street, 19<sup>th</sup> Street, 22<sup>nd</sup> Street, 25<sup>th</sup> Street, 110 Freeway, Crescent Avenue, Gaffey Street, Gulch Road,

1 Front Street, Harbor Boulevard, Miner Street, O'Farrell Street, Pacific Avenue,  
2 Summerland Avenue, Swinford Street, Via Cabrillo Marina, and Western Avenue.

### 3 **3.9.3 Applicable Regulations**

4 The *L.A. CEQA Thresholds Guide* (City of Los Angeles 2006) includes the following  
5 checklist questions regarding environmental noise impacts:

- 6 a) Would the project result in exposure of persons to or generation of noise levels in  
7 excess of standards established in the local general plan or noise ordinance, or  
8 applicable standards of other agencies?
- 9 b) Would the project result in exposure of persons to or generation of excessive  
10 groundborne vibration or groundborne noise levels?
- 11 c) Would the project result in a substantial permanent increase in ambient noise  
12 levels in the project vicinity above levels existing without the project?
- 13 d) A substantial temporary or periodic increase in ambient noise levels in the project  
14 vicinity above the existing without the project?
- 15 e) For a project located within an airport land use plan, or where such a plan has not  
16 been adopted within two miles of a public airport or public use airport, would the  
17 project expose people residing or working in the project area to excessive noise  
18 levels?
- 19 f) For a project within the vicinity of a private airstrip, would the project expose  
20 people residing or working in the project area to excessive noise levels?

21 Significance criteria for this project are based upon questions a, c, and d from the  
22 *L.A. CEQA Thresholds Guide*. This includes impacts resulting from construction  
23 activities and impacts resulting from operation during each stage of construction and  
24 operation of the proposed Project. Question b deals with vibration impacts on  
25 people. Construction, specifically pile driving, would generate vibration, but no  
26 features of the proposed Project or alternatives would generate significant levels of  
27 vibration. Pile driving would typically need to occur within 50 feet of residential or  
28 other sensitive areas to be felt as "distinctly perceptible." This is based on a vibration  
29 significance threshold level of 0.24 inches/second at the receptor and a typical source  
30 vibration level of 0.644 in/sec at 25 feet per the Caltrans *Transportation and*  
31 *Construction Induced Vibration Guidance Manual* (June 2004). The nearest  
32 sensitive use to pile driving would be the North Harbor construction, which would be  
33 no closer than 220 feet to a residential area. Therefore, vibration impacts would not  
34 be an issue for the proposed Project and its alternatives, and it is not addressed  
35 further in this document. Questions e and f are not applicable to this assessment.  
36 Background information is presented in the following paragraphs regarding  
37 applicable or related regulations adopted by the City of Los Angeles or other  
38 agencies.

### 3.9.3.1 City of Los Angeles Municipal Code

Section 41.40 of the City of Los Angeles Municipal Code establishes when construction work is prohibited. The Municipal Code section states the following:

No person shall between the hours of 9:00 pm and 7:00 am of the following day perform any construction or repair work of any kind upon or any excavating for, any building or structure, where any of the foregoing entails the use of any power-driven drill, driven machine, excavator, or any other machine, tool, device, or equipment which makes loud noises to the disturbance of persons occupying sleeping quarters in any dwelling, hotel, or apartment or other place of residence. In addition, the operation, repair or servicing of construction equipment and the jobsite delivering of construction materials in such areas shall be prohibited during the hours herein specified. Any person who knowingly and willfully violates the foregoing provision shall be deemed guilty of a misdemeanor punishable as elsewhere provided in this code.

The code section then provides certain provisions for exceptions and exemptions. Chapter 11 of the Municipal Code sets forth noise regulations, including regulations applicable to construction noise impacts. Section 112.05 establishes maximum noise levels for powered equipment or powered hand tools. This section states:

Between the hours of 7:00 am and 10:00 pm in any residential zone of the City or within 500 feet thereof, no person shall operate or cause to be operated any powered equipment or powered hand tool that produces a maximum noise level exceeding the following noise limits at a distance of 50 feet there from (a) 75 dBA for construction, industrial and agricultural machinery including crawler tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, depressors, and pneumatic or other powered equipment; (b) 75 dBA for powered equipment of 20 horsepower or less intended for infrequent use in residential areas including chain saws, log chippers, and powered hand tools; and (c) 65 dBA for powered equipment intended for repetitive use in residential areas including lawn mowers, backpack mowers, small lawn and garden tools, and riding tractors.

The noise limits for particular equipment listed above in (a), (b) and (c) shall be deemed to be superseded and replaced by noise limits for such equipment from and after their establishment by final regulations adopted by the Federal Environmental Protection Agency and published in the Federal Register.

Said noise limitations shall not apply where compliance therewith is technically infeasible. The burden of proving that compliance is technically infeasible shall be upon the person or persons charged with a violation of this section. Technical infeasibility shall mean that said noise limitations cannot be complied with despite the use of mufflers, shields, sound barriers, and/or other noise reduction device and techniques during the operation of the equipment.

The Municipal Code specifies ambient noise levels that cannot be exceeded by more than 5 dB at adjacent properties by a number of sources including radios, television sets, air conditioning equipment, certain powered equipment, and automotive repair.

1 Any noise levels caused by these uses which exceeds the ambient noise level on the  
2 premises of any other occupied property by more than 5 dB is a violation of the code.  
3 The limiting noise levels vary by land use and are found in Section 111.03 of the  
4 Municipal Code. The more critical limit applies to residential zones and the  
5 presumed ambient noise levels are 50 dBA ( $L_{eq}$ ) during the day (7 a.m. to 10 p.m.)  
6 and 40 dBA ( $L_{eq}$ ) during the night (10 p.m. to 7 a.m.).

7 The Municipal Code does restrict the use of audible signaling devices of the type  
8 commonly used on ships. Section 114.04 of the code reads as follows:

9 It shall be unlawful for any person, within any residential zone of the City or  
10 within 500 feet thereof, to sound, blow, or operate and audible signaling device,  
11 including sequential airhorns or electronically operated vehicular loud speaker  
12 music devices, which can be heard for a distance greater than 200 feet for any  
13 purpose.

### 14 **3.9.3.2 Los Angeles Noise Element of the General** 15 **Plan**

16 The Noise Element of the City of Los Angeles General Plan provides a broad  
17 perspective of the noise issues throughout the city and identifies goals, policies, and  
18 implementation measures to guide future actions by the City. The Noise Element  
19 identifies the freight train activities associated with the Los Angeles and Long Beach  
20 Harbors as a major noise generator in the City. It also points out that, generally, train  
21 noise is buffered from sensitive noise uses by surrounding industrial, warehouse, and  
22 commercial uses.

23 The Noise Element identifies NEPA and CEQA as the primary regulations that guide  
24 environmental assessments in the City. CEQA requires that mitigation measures be  
25 incorporated into the proposed Project to avoid or minimize significant impacts to the  
26 maximum extent feasible.

27 Under the Goals, Objectives, and Policies chapter of the Noise Element, Objective 1  
28 is to “reduce airport and harbor related noise impacts.” No specific measures or  
29 further discussion relating to harbor operations is provided in this chapter. However,  
30 the following chapter in the Noise Element, Chapter IV—Implementation, identifies  
31 specific implementation policies for the Los Angeles Harbor. Implementation  
32 program P2 applies to both airports and the harbor and states:

33 Noise abatement, mitigation and compatibility measures shall be incorporated  
34 into the city’s general plan airport and harbor elements, including, where  
35 feasible, sound proofing of impacted sensitive uses, buffering, land use  
36 reconfiguration, modification of associated circulation and transportation  
37 systems, modification of operational procedures, conversion or phasing out of  
38 uses that are incompatible with airport or harbor uses, and/or other measures  
39 designed to reduce airport and harbor related noise impacts on adjacent  
40 communities.



## 3.9.4 Impacts and Mitigation Measures

### 3.9.4.1 Methodology

#### 3.9.4.1.1 Construction Noise Estimation Methodology

##### Noise Generated by Construction Equipment

As pointed out previously, it is not known with certainty what type of equipment would be used during the construction of each proposed project element.

Construction noise calculations provide only a rough estimate of the potential noise impacts that construction activities can have on their surrounding environment, so rather than enumerating all equipment that would be used for the construction of each proposed project element, all proposed project elements have been categorized as to belonging to one of four broad noise groups based on the expected level of effort needed during construction. An  $L_{eq}$  is assigned to each of these noise groups and represents the typical average noise level that would be expected to occur at a given distance (e.g., 50 feet) from the construction site as a result of the noise that is generated by equipment operating on the construction site. For each noise group, the average noise level is calculated by summing up the average noise energy generated by all pieces of equipment belonging to that group. The average noise generated by each piece of construction equipment is based on both the maximum noise generated by the equipment while it is operating as well as the percentage of time during the construction period that the equipment would be expected to be operating. This method is consistent with the Federal Highway Administration's Roadway Construction Noise Model (RCNM). The four noise groups are described below.

##### Small

This category is to be applied to proposed project elements where light construction activities are expected to occur such as landscaping, hardscaping, and lighting. Transporting items to the construction site and removing refuse via trucks would also generate noise during small construction activities. This category can usually be applied to small projects that do not involve the construction of major structures. Some of the equipment involved in small construction may include, but is not limited to, the following items:

- flatbed truck,
- pickup truck,
- dump truck,
- generators, and
- vibratory concrete mixer.

Small construction projects can be expected to generate an  $L_{eq}$  of 80 dBA at 50 feet from construction.

**1 Medium**

2 This category describes all activities that are larger in scope and would require louder  
3 construction activity in a given area than small proposed project elements, but the  
4 noise generated is not sufficiently high to justify applying the heavy construction  
5 label. Medium construction might, at times, employ heavy construction equipment,  
6 but the duration, intensity, and frequency-of-use of such equipment is less than what  
7 would be expected during heavy construction. The equipment that may be involved  
8 in medium construction would include everything that is utilized in the small  
9 construction category and may also include, but is not limited to, the following items:

- 10 ■ concrete mixer truck,
- 11 ■ compactor,
- 12 ■ paver, and
- 13 ■ chain saw.

14 Medium construction projects can be expected to generate an  $L_{eq}$  of 85 dBA at 50  
15 feet from construction.

**16 Heavy**

17 Any activity that is involved in the demolition of buildings would fall into this  
18 category, as well as the construction of some large buildings, and the excavation of  
19 earth on land. The equipment that could be involved in heavy construction would be  
20 everything that is in the medium construction category and may also include, but is  
21 not limited to, the following items:

- 22 ■ jackhammer,
- 23 ■ excavator,
- 24 ■ crane,
- 25 ■ scraper,
- 26 ■ roller, and
- 27 ■ concrete saw.

28 Heavy construction projects can be expected to generate an  $L_{eq}$  of 89 dBA at 50 feet  
29 from construction.

**30 Pile Driving**

31 This category is reserved for those activities near the Los Angeles Harbor that require  
32 building foundations for piers and wharfs as well as excavating underwater sediment.  
33 This type of construction tends to be the noisiest. Some of the equipment that would  
34 be involved in pile driving activities would be everything that is in the heavy  
35 construction category and may also include, but is not limited to, the following items:

- 1           ■ pile driver,
- 2           ■ dredge,
- 3           ■ slurry trenching machine, and
- 4           ■ pump.

5           Pile driving construction projects can be expected to generate an  $L_{eq}$  of 101 dBA at  
6           50 feet from construction.

## 7           **Ambient Noise Level Estimation**

8           To estimate construction noise impacts due to each of the proposed project elements,  
9           ambient noise levels at all sensitive receivers closest to the proposed project elements  
10          also need to be determined. Noise measurements were not taken at all sensitive  
11          receivers within the proposed project area because it would be infeasible to do so;  
12          however, most sensitive receivers are within close proximity to a noise measurement  
13          site. In general, two locations that are in close proximity to each other will have very  
14          similar noise levels. For the purpose of determining construction impacts due to  
15          proposed project elements, it was assumed that the average ambient noise level at the  
16          nearest sensitive receiver to a proposed project element is the same as the 20-minute  
17           $L_{eq}$  that was taken at a noise measurement site near the sensitive receiver. The noise  
18          measurement site that is chosen was the closest measurement site to the sensitive  
19          receiver that also had a similar noise profile. Most of the time, the closest noise  
20          measurement site to the sensitive receiver is chosen. However, another alternative  
21          measurement site, which is slightly further away, may be chosen instead because the  
22          noise sources affecting the sensitive receiver are the same as those affecting the  
23          alternative measurement site. This situation is dictated by the local topography and  
24          can occur when intervening obstacles that are located between the nearest noise  
25          measurement site and a noise source attenuate the sound waves arriving at the nearest  
26          measurement site, while none of the same obstacles exist between the original noise  
27          source and either the nearest sensitive receiver or the alternative noise measurement  
28          site. In that case, the alternative noise measurement site would be chosen because its  
29          noise level would more closely match that of the sensitive receiver. Another  
30          situation might also arise if the nearest noise measurement site had an unobstructed  
31          view of a noise generator while both the sensitive receiver and the alternative noise  
32          measurement site did not.

## 33          **Construction Noise Calculations**

34          Determining the construction noise impact of a proposed project element at its  
35          nearest sensitive receiver requires the calculation of the noise level at the nearest  
36          sensitive receiver due to construction activities that occur at the proposed project  
37          element's construction site. Knowing the distance of the nearest sensitive receiver to  
38          the construction site and the noise generated by the operating construction  
39          equipment, the noise level at the nearest sensitive receiver due to construction-only  
40          noise can be calculated. This noise level represents the noise generated by just the

1 proposed project element's construction activities. For the purpose of estimating the  
2 worst-case impact due to construction noise at the nearest sensitive receiver, it is  
3 assumed that the distance from the nearest sensitive receiver to the construction area  
4 is equal to the distance of the nearest sensitive receiver to the closest point that lies  
5 within the boundary of the construction area.

6 As was mentioned previously, construction activities would typically last more than  
7 10 days in any 3-month period for all of the proposed project elements. According to  
8 threshold NOI-1, an impact would be considered significant if noise from these  
9 construction activities would exceed existing ambient exterior noise levels by 5 dBA  
10 or more at a noise sensitive use. The final column of the construction noise table  
11 identifies whether the 5-dBA threshold is exceeded and a significant impact is  
12 projected.

### 13 **Construction Noise Impact Variability**

14 All short-term noise measurements were made during the daytime, and because  
15 nothing would indicate that those noise measurements were atypical, the construction  
16 noise impact analysis, which is dependent upon the value of the short-term  
17 measurements data, would also be valid during the daytime hours.

18 Because construction activities may continue up until 9:00 p.m., construction noise  
19 can also impact sensitive receivers during the evening hours. Since a construction  
20 noise impact is dependent upon the difference between the cumulative noise and the  
21 ambient noise, any factor that would cause the estimated ambient noise level at the  
22 nearest sensitive receiver to decrease in magnitude would translate into a greater  
23 noise impact. In order to estimate evening construction noise impacts, the evening  
24 ambient noise levels at sensitive receivers are estimated as described in the next  
25 paragraph.

26 The long-term measurements provide evening noise levels as well as daytime noise  
27 levels. If the data from these noise measurements are analyzed, a noise difference  
28 value (or delta; i.e., evening  $L_{eq}$  minus daytime  $L_{eq}$ ) between the evening and the  
29 nighttime measurements at those measurement sites can be calculated. This delta  
30 noise value, although strictly valid only at the measurement site at which the data  
31 were recorded, can provide a reasonable estimate of the delta noise value that would  
32 be expected at other sites within the proposed project area. The long-term noise  
33 measurements taken at the Los Angeles Maritime Museum show that the  $L_{eq}$   
34 recorded during the evening hours was actually higher than the  $L_{eq}$  recorded during  
35 the daytime hours; the noise delta was 4 dB. If the noise delta is positive, as it is in  
36 this case, all of the proposed project elements would experience less of a construction  
37 noise impact during the evening than during the daytime. Some of these of these  
38 reduced evening construction noise impacts would then be under the 5 dB  
39 significance threshold necessary to classify them as significant. Since the measured  
40 daytime noise levels provide an adequate representation of the evening noise levels,  
41 the daytime noise levels will be used as the basis for comparison when determining  
42 the significance of daytime and evening construction noise impacts.

### 3.9.4.1.2 Traffic Noise Estimation Methodology

The traffic noise tables set forth in the analysis below were modeled using single-source assumptions, and display traffic noise levels and changes in traffic noise levels at a standard distance of 50 feet from the roadway. These noise levels, which are shown alongside each roadway segment in the various tables, represent the noise level due to the entire road as measured by noise receptors that are both 50 feet from the centerline of the roadway segment and centered between the end points of the roadway segment. Only the traffic noise from the road being modeled is shown.

The determination of the traffic noise impacts for the proposed Project and all alternatives is evaluated using a two-phase approach. The first phase in the analysis uses the Traffic Noise Model program described above to identify roadway segments for which the projected noise level increase is below 3 dB. 3dB is used as the threshold at this first phase because it is the lowest increment of change that could potentially cause a significant impact according to the significance criteria discussed below. Any roadway segment that does not experience a noise increase that exceeds the significance threshold would not cause a significant impact.

The second phase in the analysis evaluates all roadway segments for which the Traffic Noise Model predicted an increased dB of 3 or higher to determine whether the increase constitutes a significant impact based upon the significance thresholds set forth below.

Since a noise receptor near a roadway segment can be affected by noise from other nearby roads, the noise contribution from these other roads needs to be considered when determining the actual noise impacts from changes in noise due to the first road. This is important to remember when evaluating total traffic noise impacts at affected uses because very often an affected use may be near two roadway segments that belong to two different roads, and the total noise level at the affected use is the addition of the noise contributions from both roadway segments. A situation like this usually happens when the affected use is near the intersection of two roads. In that case, vehicles traveling along either of those roads will generate noise that is received by the receptor. The effect of this is that a roadway segment that appears to experience a large project-related noise increase using the single-source assumptions may not experience such a large an increase at all because the existing ambient noise level at the receptor is actually larger than is what is reported in the traffic noise table.

To get the true existing modeled ambient noise level, the noise contribution (i.e., noise energy) from both roadway segments, and not their dB values, will need to be added to get the total noise level. This total noise energy level can then be converted into the decibel scale. Due to the logarithmic nature of the dB scale, the total noise level which results from the contributions from two sources will be not be greater than 3 dB above the noise level generated by the louder of the two noise sources. (Due to the logarithmic addition of noise levels, two noise sources with a noise level of 60 dBA will combine for a total noise of 63 dBA. However, a noise source of 60 dBA and a second noise source of 70 dBA will combine for a total noise of 70.4 dBA.) When a comparison is then made between the with-project and without-

1 project conditions, the difference in noise value may be less than significant;  
2 therefore, all roadway segments that appear from a cursory examination of the table  
3 to make a significant noise impact must have their existing ambient noise levels  
4 checked to make sure that they are not overestimated as a result of noise generated by  
5 a roadway segments belonging to nearby roads.

## 6 **3.9.4.2 Thresholds of Significance**

### 7 **3.9.4.2.1 CEQA Criteria**

8 The *L.A. CEQA Thresholds Guide* (City of Los Angeles 2006) contains the following  
9 significance thresholds related to construction noise. Quantification of ambient noise  
10 levels (existing and projected at the time of construction) is measured in CNEL

11 **NOI-1:** A project would have a significant impact on noise levels from construction  
12 if construction activities lasting more than 1 day would exceed existing ambient  
13 exterior noise levels by 10 dBA or more at a noise sensitive use; or if construction  
14 activities lasting more than 10 days in a 3-month period would exceed existing  
15 ambient exterior noise levels by 5 dBA or more at a noise sensitive use.

16 **NOI-2:** A project would have a significant impact on noise levels from construction  
17 if construction activities would exceed the ambient noise level by 5 dBA at a noise  
18 sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday,  
19 before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.

20 **NOI-3:** A project would normally have a significant impact on noise levels from  
21 operations (motor vehicle, railroad, or cruise ship) if the project causes the  
22 operational ambient noise level measured at the property line of affected uses to  
23 increase by 3 dBA in CNEL, to or within the 'normally unacceptable' or 'clearly  
24 unacceptable category,' or any 5 dBA in CNEL or greater noise increase.

25 NOI-3 is applicable to all operational activities, including both stationary source  
26 noise and increases in motor vehicle traffic and railroad operations. Sensitive  
27 receivers in the Port area that are potentially affected by operational noise from the  
28 proposed Project include residential land uses (single- and multi-family housing,  
29 boats used as residences) and neighborhood parks. At these land uses, a significant  
30 impact would occur if the proposed Project causes CNEL noise levels to increase by  
31 (1) 5 dBA or greater where the existing CNEL is less than 70 dBA; or (2) 3 dBA or  
32 greater where the existing CNEL exceeds 70 dBA.

1 **Table 3.9-5.** City of Los Angeles Guidelines for Noise Compatible Land Use

<i>Land Use</i>	<i>Community Noise Exposure CNEL, dB</i>			
	<i>Normally Acceptable</i>	<i>Conditionally Acceptable</i>	<i>Normally Unacceptable</i>	<i>Clearly Unacceptable</i>
Single Family, Duplex, Mobile Homes	50–60	55–70	70–75	above 70
Multi-Family Homes	60–65	60–70	70–75	above 70
Schools, Libraries, Churches, Hospitals, Nursing Homes	50–70	60–70	70–80	above 80
Playgrounds, Neighborhood Parks	50–70	—	67–75	above 72
<p>Notes:</p> <p>Normally Acceptable: Specified land use is satisfactory, based on the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.</p> <p>Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning, will normally suffice.</p> <p>Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.</p> <p>Clearly Unacceptable: New construction or development should generally not be undertaken.</p> <p>Source: <i>L.A. CEQA Thresholds Guide</i>, City of Los Angeles 2006</p>				

2

3

**NOI-4:** A project would have a significant impact on noise levels from operation if the proposed project or alternatives would result in noise levels at a noise sensitive use attributable to airport operations exceeding 65 dB CNEL and increasing ambient noise levels by 1.5 dB CNEL or greater.

4

5

6

7

The nearest airport is the Torrance Municipal Airport, which is over 4 miles from the proposed Project; therefore, there would be no significant impacts related to airport noise for the proposed Project or any of the alternatives.

8

9

10 **3.9.4.2.2 NEPA Criteria**

11

The significance thresholds identified in Section 3.9.4.2.1 will be used to evaluate NEPA impacts. However, the criteria will only be applied to elements of the proposed Project that require federal permits or approval. For example, an improvement to a landside park area would not require federal approval and, therefore, would not be subject to the significance threshold.

12

13

14

15

### 3.9.4.3 Impacts and Mitigation

The potential for noise from construction and operation of the proposed Project and its alternatives to affect the noise environment at sensitive receiver locations in the surrounding San Pedro district of the City of Los Angeles is assessed in this section.

#### 3.9.4.3.1 Proposed Project

##### Impact NOI-1: The proposed Project would exceed construction noise standards.

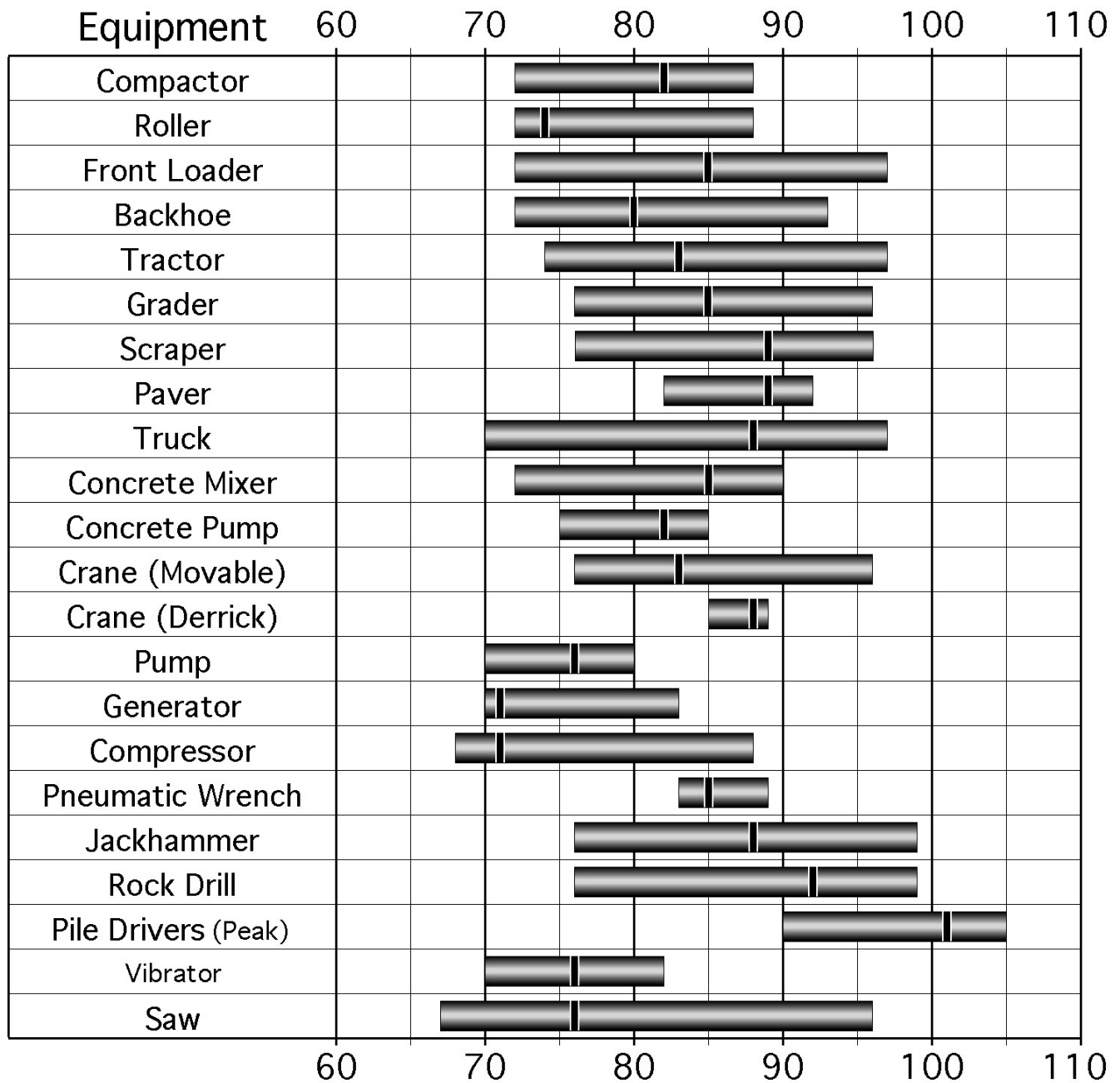
This section estimates the noise impacts due to construction activities that would occur as a result of the proposed Project. Figure 3.9-4 shows the noise level ranges of typical construction equipment. During any construction project, the overall average noise levels vary with the level of construction activity and the types of equipment that are on site and operating at a particular time. Projections of construction noise are only a rough approximation of the potential noise levels. The type of equipment needed for a construction project is often not known with certainty until the contractor for the project has been procured. Even the same pieces of equipment may vary substantially in the noise levels generated due to the age of equipment, condition of equipment, type of muffler installed, and how it is being operated. Usually, the noise levels at a given receptor are primarily dependent on the loudest and closest piece of equipment. For example, if several graders are working a site, the closest grader would be primarily responsible for the noise heard at a nearby receptor. Also, if a grader and a compressor are both operating, then the grader, which is inherently louder, would determine the noise levels at the receptor even if the compressor is slightly closer to the receptor. Topography and atmospheric conditions can also affect the noise levels at the receptor.

Hourly average noise levels have been estimated based on the types of equipment that are expected to be on site to complete the various construction projects. These sources include landside equipment such as loaders, dozers, and trucks, and waterside equipment such as hoists, generators, and tugs. These levels represent the noise levels that would occur during the noisiest phase of construction, i.e., wharf construction with simultaneous pile driving. The following standard controls would be implemented during proposed project construction and are assumed in the noise assessment:

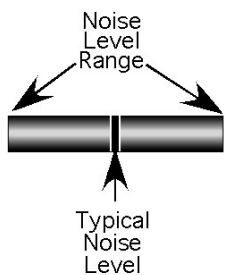
- **Construction Hours.** Limit construction to the hours of 7:00 a.m. to 9:00 p.m. on weekdays, between 8:00 a.m. and 6:00 p.m. on Saturdays, and prohibit construction equipment noise anytime on Sundays and federal holidays as prescribed in the City of Los Angeles Noise Ordinance.
- **Construction Days.** Do not conduct noise-generating construction activities on Sundays or federal holidays.



## A-Weighted Sound Level (dBA) At 50 Feet



**LEGEND**



Sources: "Handbook of Noise Control,"  
 by Cyril Harris, 1979  
 "Transit Noise and Vibration Impact Assessment"  
 by Federal Transit Administration, 1995

01074.07 (2-4-08)

- 1           ■ **Construction Equipment.** Properly muffle and maintain all construction  
2           equipment powered by internal combustion engines.
- 3           ■ **Idling Prohibitions.** Prohibit unnecessary idling of internal combustion engines  
4           near noise sensitive areas. The Port’s “Sustainable Construction Guidelines for  
5           Reducing Air Emissions” prohibit idling for more than 5 minutes for any  
6           equipment or vehicles that are not in use.
- 7           ■ **Equipment Location.** Locate all stationary noise-generating construction  
8           equipment, such as air compressors and portable power generators, as far as  
9           practical from existing noise sensitive land uses.

10           Table 3.9-6 displays the projected noise impacts at each proposed project element’s  
11           nearest sensitive receiver due to construction-related activities that are part of the  
12           proposed Project. This table compares the average cumulative noise level (i.e.  $L_{eq}$  of  
13           ambient + construction) at the nearest sensitive receiver with the nearest sensitive  
14           receiver’s average ambient noise level (i.e. preexisting  $L_{eq}$  without proposed project-  
15           related construction noise). The difference between these two values is used as the  
16           basis for determining whether or not a significant noise impact would occur. In  
17           particular, a noise impact lasting more than 10 days in a 3-month period is recognized  
18           as significant if the difference between the cumulative  $L_{eq}$  at the nearest sensitive  
19           receiver minus the ambient  $L_{eq}$  at that same receiver exceeds a threshold of 5 dB. It  
20           was assumed that the construction of all proposed project elements shown in  
21           Table 3.9-6 would last more than 10 days in a 3-month period; therefore, the 5 dB  
22           significance criteria also applies to all proposed project elements. Because there  
23           would not be any construction between the hours of 9:00 p.m. and 7:00 a.m., all  
24           decibel changes to the 24-hour CNEL metric resulting from construction noise would  
25           be no greater than the changes to  $L_{eq}$  predicted by Table 3.9-6.

### 26           **Proposed Project Element Construction Noise**

27           Below is a description of the construction noise impacts resulting from each proposed  
28           project element based upon the information contained in Table 3.9-6. Of the 51  
29           proposed project elements (see Table 3.9-6), 35 would result in a more than 5 dBA  
30           increase in ambient noise levels. The impacts are determined on a project-element  
31           basis and not on an impacted-location basis. Because of this, an affected use that is  
32           in close proximity to two or more project elements may be impacted by concurrent  
33           construction at nearby project elements. It is possible that a combined impact due to  
34           the construction of those nearby project elements may be significant even if none of  
35           the project elements individually make a significant impact. In this sense, there  
36           would be overlap between project elements. Since a detailed schedule for the  
37           construction of each project element has not yet been provided, it was assumed that  
38           many of the elements would overlap and that there would be a significant  
39           construction noise impact at the analyzed locations from the combination of  
40           simultaneous project element construction.

41           At any given location within the project area, the noise level is determined by all  
42           noise sources contributing noise to that location. When two or more project elements  
43           are under construction simultaneously, the noise coming from the construction sites  
44           of those project elements can combine with the ambient noise level. This can result

1 in a higher noise level increase at a given location than would occur at that location if  
2 the noise level from only one project element were to combine with the ambient  
3 noise. In this way, sensitive land uses that might not be impacted by individual  
4 project elements may be impacted as a result of the cumulative noise increases  
5 caused by two or more project elements.

6 To determine the location of those areas that potentially could experience a  
7 cumulative noise impact under construction, several points within the project area  
8 were chosen for examination. All locations were examined and only those locations  
9 with overlapping noise elements were analyzed to determine significance. Locations  
10 farther away than one-quarter mile from any project element were not considered  
11 because the noise impacts at those locations would be too small. Once the locations  
12 were selected, the cumulative construction noise level (i.e. noise level due to all  
13 project elements and ambient noise) at each selected location was computed under  
14 the extreme worst-case scenario, which assumed that all project elements are under  
15 construction simultaneously.

16 Neglecting line of sight obstructions, the analysis showed that the cumulative noise  
17 level at all selected locations would be no more than 8.4 dB above what would occur  
18 if only the project element with the predominant noise level were to impact that  
19 point. The 8.4 dB represents the maximum change. All locations experienced a  
20 change that was less than this, and a noise increase of 3 or 4 dB was common. When  
21 line of sight obstruction is taken into account, the cumulative noise change would be  
22 less. Only land sensitive uses within a block of construction would be potentially  
23 impacted by the cumulative construction noise of all project elements. Construction  
24 noise impacts due to individual proposed project elements are identified below.

25 It should be noted that in the following paragraphs of this section that none of the  
26 live-aboards (i.e., people living on boats in a marina) that are located in the Ports  
27 O'Call marina are recognized as sensitive receivers because all of these live-aboards  
28 would be relocated elsewhere prior to the start of construction at Ports O'Call;  
29 therefore, they would not be affected by construction noise while they are located in  
30 the Ports O'Call marina. All live-aboards in the Cabrillo Marina are recognized as  
31 sensitive receivers.

32 **North Harbor:** The planned location for the Inner Harbor cut, which is located in  
33 the North Harbor, is close to residences that front Harbor Boulevard. Pile driving,  
34 which generates high noise levels, and dredging, which is not as loud as pile driving,  
35 would both be expected to occur during the construction phase. As discussed in  
36 Section 3.9.4.1.1, pile driving activities would produce an  $L_{eq}$  of 101 dBA at 50 feet  
37 from the source. Since the nearest residences are 220 feet away from the pile driving  
38 activities, the  $L_{eq}$  at the nearest residences is projected to be 89 dBA. Site ST-2,  
39 which is close to the sensitive receiver, has an ambient  $L_{eq}$  of 68.3 dBA. With a  
40 noise increase of over 20 dB at the property line of the nearest sensitive receiver,  
41 construction noise would exceed the significance threshold.

1 **Table 3.9-6.** Construction Noise Due To Proposed Project Elements

<i>Proposed Project Element</i>	<i>Type of Equipment</i>	<i>Construction <math>L_{eq}</math> (dBA) @ 50 ft.</i>	<i>Distance to Receptor (feet)</i>	<i>Type of Receptor</i>	<i>Closest Measurement Site</i>	<i>Ambient <math>L_{eq}</math> (dBA) @ Receptor</i>	<i>Construction <math>L_{eq}</math> (dBA) @ Receptor</i>	<i>Ambient + Project <math>L_{eq}</math> (dBA) @ Receptor</i>	<i>Change in Noise (dB)</i>	<i>Over 5 dB Significance Threshold</i>
North Harbor	Pile Driving	101	220	Residence	ST-2	68.3	88.1	89	20.7	YES
Downtown Harbor	Pile Driving	101	230	Sunrise Hotel	ST-6	70.4	87.7	88	17.6	YES
7 <sup>th</sup> Street Harbor	Pile Driving	101	390	Sunrise Hotel	ST-6	70.4	83.2	84	13.6	YES
7 <sup>th</sup> Street Pier	Pile Driving	101	390	Sunrise Hotel	ST-6	70.4	83.2	84	13.6	YES
Town Square	Medium	85	150	Sunrise Hotel	ST-6	70.4	75.5	77	6.6	YES
Downtown Civic Fountain	Medium	85	310	Sunrise Hotel	ST-6	70.4	69.2	73	2.6	NO
John S. Gibson Jr. Park	Small	80	80	Sunrise Hotel	ST-6	70.4	75.9	77	6.6	YES
<b>Waterfront Promenade</b>										
Ports O'Call	Pile Driving	101	1,170	Residence	ST-4	62.6	73.6	74	11.4	YES
S. P. Slip	Medium	85	540	Residence	ST-4	62.6	64.3	67	4.4	NO
City Dock No. 1	Pile Driving	101	1,380	Live-aboard	ST-13	53.9	72.2	73	19.1	YES
Outer Harbor	Medium	85	40	Live-aboard	ST-13	53.9	86.9	87	33.1	YES
Cabrillo Beach	Medium	85	30	Youth Camp	ST-13	53.9	89.4	90	36.1	YES
Salt Marsh	Medium	85	420	Fort MacArthur	ST-13	53.9	66.5	67	13.1	YES
<b>Pedestrian and Waterfront Accesses</b>										
Swinford Street	Medium	85	190	Residence	ST-14	70.2	73.4	76	5.8	YES

O'Farrell Street	Medium	85	510	Residence	ST-12	62.1	64.8	67	4.9	NO
1 <sup>st</sup> Street	Medium	85	220	Residence	ST-2	68.3	72.1	74	5.7	YES
3 <sup>rd</sup> Street	Medium	85	120	Residence	ST-2	68.3	77.4	78	9.7	YES
5 <sup>th</sup> Street	Medium	85	260	Sunrise Hotel	ST-6	70.4	70.7	74	3.6	NO
6 <sup>th</sup> Street	Medium	85	140	Sunrise Hotel	ST-6	70.4	76.1	78	7.6	YES
7 <sup>th</sup> Street	Medium	85	470	Sunrise Hotel	ST-6	70.4	65.5	72	1.6	NO
Pedestrian Bridge at 13 <sup>th</sup> Street	Medium	85	70	Residence	ST-4	62.6	82.1	83	20.4	YES
Vehicular @ 1 <sup>st</sup> Street	Medium	85	220	Residence	ST-2	68.3	72.1	74	5.7	YES
Fishermen's Park	Medium	85	1,120	Residence	ST-4	62.6	58.0	64	1.4	NO
Outer Harbor Park	Medium	85	510	Live-aboard	ST-13	53.9	64.8	66	12.1	YES
San Pedro Park	Medium	85	190	Residence	ST-10	55.8	73.4	74	18.2	YES
Warehouses 9 and 10	Small	80	340	Residence	ST-7	60.7	63.3	66	5.3	YES
Cruise Ship Facilities										
Inner Harbor Berths and Terminal Facilities	Heavy	89	1,050	Residence	ST-2	68.3	62.6	70	1.7	NO
Outer Harbor Berths and Terminal Facilities	Pile Driving	101	660	Live-aboard	ST-13	53.9	78.6	79	25.1	YES
Inner Harbor Parking	Heavy	89	420	Apartment	ST-12	62.1	70.5	72	9.9	YES

Outer Harbor Parking	Heavy	89	510	Live-aboard	ST-13	53.9	68.8	69	15.1	YES
Ports O'Call Redevelopment										
Development	Medium	85	680	Residence	ST-5	62.4	62.3	66	3.6	NO
Parking	Heavy	89	230	Residence	ST-5	62.4	75.7	76	13.6	YES
S. P. Railyard Demolition	Heavy	89	260	Residence	ST-5	62.4	74.7	75	12.6	YES
Waterfront Red Car Maintenance Facility										
Temporary Location	Medium	85	860	Residence	ST-10	55.8	60.3	62	6.2	YES
13 <sup>th</sup> Street Location	Medium	85	220	Residence	ST-4	62.6	72.1	73	10.4	YES
Waterfront Red Car Extension	Medium	85	50	Doubletree Hotel	ST-10	55.8	85.0	86	30.2	YES
Ralph J. Scott Fireboat Display	Heavy	89	450	Sunrise Hotel	ST-6	70.4	69.9	74	3.6	NO
Demolition of Westway Terminal	Heavy	89	1,010	Live-aboard	ST-13	53.9	62.9	64	10.1	YES
Tugboats										
Crowley Tug Building	Heavy	89	240	Residence	ST-2	68.3	75.4	77	8.7	YES
Millennium Tug Building	Heavy	89	390	Residence	ST-2	68.3	71.2	73	4.7	NO
Los Angeles Maritime Institute	Medium	85	220	Residence	ST-2	68.3	72.1	74	5.7	YES
S.S. Lane Victory	Small	80	250	Residence	ST-2	68.3	66.0	71	2.7	NO
Jankovich and Sons Fueling Station										
Existing Location at	Small	80	1,500	Residence	ST-10	55.8	50.5	57	1.2	NO

Ports O'Call										
New Location at Berth 240	Pile Driving	101	1,660	Penitentiary	ST-11	54.9	70.6	71	16.1	YES
Catalina Express	Pile Driving	101	1,970	Apartment	ST-14	70.2	69.1	73	2.8	NO
Expansion of Sampson Way	Heavy	89	440	Residence	ST-5	62.4	70.1	71	8.6	YES
7 <sup>th</sup> Street/ Sampson Way Intersect Improvements	Medium	85	470	Sunrise Hotel	ST-6	70.4	65.5	72	1.6	NO
Harbor Boulevard Landscaping	Small	80	30	Residence	ST-4	62.6	84.4	85	22.4	YES
Harbor Boulevard Lane Capacity	Heavy	89	40	Sunrise Hotel	ST-6	70.4	90.9	91	20.6	YES
Surface Parking Adjacent To Acapulco Restaurant	Medium	85	480	Sunrise Hotel	ST-6	70.4	65.4	72	1.6	NO
Shaded proposed project elements require federal approval.										

1

1           **Downtown Harbor:** Construction of the Downtown Harbor also involves pile  
2 driving and dredging. Pile driving would be the predominant noise factor affecting  
3 nearby sensitive receivers. Heavy construction noise would also affect this area. The  
4 7<sup>th</sup> Street Harbor and Ports O'Call, which are both nearby, would also involve pile  
5 driving, and the pile driving that would occur at both of those places may occur at a  
6 different time than when pile driving at the Downtown Harbor would occur. The  
7 Downtown Harbor would be about 230 feet from the Sunrise Hotel, which is the  
8 nearest sensitive receiver. The  $L_{eq}$  at the Sunrise Hotel due to construction noise  
9 generated by the Downtown Harbor is projected to be 88 dBA. Site ST-6, which is  
10 the closest measurement site to the Sunrise Hotel, has an ambient  $L_{eq}$  of 70.4 dBA.  
11 With a noise increase of over 17 dB at the property line of the nearest sensitive  
12 receiver, construction noise would exceed the significance threshold.

13           **7<sup>th</sup> Street Harbor:** Pile driving and dredging would both occur during the  
14 construction of the 7<sup>th</sup> Street Harbor. Pile driving is the predominant noise factor  
15 impacting nearby sensitive receivers. Heavy construction noise would also affect this  
16 area. The Downtown Harbor and Ports O'Call, which are both nearby, would also  
17 involve pile driving, and the pile driving that would occur at both of those places may  
18 occur at a different time than when pile driving at the 7<sup>th</sup> Street Harbor would occur.  
19 The Sunrise Hotel would be 390 feet away from construction, and the  $L_{eq}$  at the  
20 Sunrise Hotel due to construction is projected to be 84 dBA. The Sunrise Hotel is  
21 close to Site ST-6. Site ST-6 has an ambient  $L_{eq}$  of 70.4 dBA. With a noise increase  
22 of over 13 dB at the property line of the nearest sensitive receiver, construction noise  
23 would exceed the significance threshold.

24           **7<sup>th</sup> Street Pier:** Just like the 7<sup>th</sup> Street Harbor, the  $L_{eq}$  at the nearest sensitive use is  
25 projected to be 84 dBA. The nearest sensitive use is near Site ST-6. Site ST-6 has an  
26 ambient  $L_{eq}$  of 70.4 dBA. With a noise increase of over 13 dB at the property line of  
27 the nearest sensitive receiver, construction noise would exceed the significance  
28 threshold.

29           **Town Square:** The Town Square is located near the Downtown Civic Fountain.  
30 Only medium construction equipment would be operating during construction. The  
31 Town Square would be 150 feet away from the Sunrise Hotel, which is the closest  
32 sensitive receiver. The  $L_{eq}$  at the Sunrise Hotel is projected to be 77 dBA due to  
33 construction activities. The Sunrise Hotel is close to Site ST-6, which has an ambient  
34  $L_{eq}$  of 70.4 dBA. With a noise increase of over 6 dB at the property line of the  
35 nearest sensitive receiver, construction noise would exceed the significance  
36 threshold.

37           **Downtown Civic Fountain:** As discussed in Section 3.9.4.1.1, medium construction  
38 activities would produce an  $L_{eq}$  of 85 dBA at 50 feet from the source. Medium  
39 construction equipment operating during construction of the Downtown Civic  
40 Fountain would generate an  $L_{eq}$  of 73 dBA at the Sunrise Hotel, which is about 310  
41 feet away. The location of the Sunrise Hotel is close to Site ST-6. Site ST-6 has an  
42 ambient  $L_{eq}$  of 70.4 dBA. With a noise increase of less than 3 dB at the property line  
43 of the nearest sensitive receiver, construction noise would not exceed the significance  
44 threshold.



1           **John S. Gibson Jr. Park:** The renovation that would be taking place at John S.  
2 Gibson Jr. Park is expected to involve only small construction equipment. At 80 feet  
3 from the park, the occupants of the Sunrise Hotel would expect an  $L_{eq}$  of 77 dBA  
4 resulting from construction noise. The Sunrise Hotel is close to Site ST-6, which has  
5 an ambient  $L_{eq}$  of 70.4 dBA. With an increase of over 6 dB at the property line of the  
6 nearest sensitive receiver, construction noise would exceed the significance  
7 threshold.

#### 8           **Waterfront Promenade:**

9           Ports O'Call Promenade: The construction of the Ports O'Call Promenade calls  
10 for pile driving. Currently, there are live-aboards in Ports O'Call marina, but  
11 they would all move to the Cabrillo Marina prior to the start of construction at  
12 Ports O'Call, so they are not considered the nearest sensitive receivers. The  
13 nearest sensitive receiver to the Ports O'Call Promenade is a residence on Beacon  
14 Street about 760 feet away. Although this residence is 760 feet away from the  
15 closest point on the Ports O'Call Promenade, no pile driving would be occurring  
16 at the closest point. The closest residence to pile driving at Ports O'Call is about  
17 1,170 feet away, and the noise contribution from pile driving would be the  
18 predominant noise contributor. The  $L_{eq}$  at the closest residence due to pile  
19 driving is projected to be 74 dBA. The nearest residence is close to Site ST-4,  
20 which has an ambient  $L_{eq}$  of 62.6 dBA. With an increase of over 11 dB at the  
21 property line of the nearest sensitive receiver, construction noise would exceed  
22 the significance threshold.

23           SP Slip Promenade: No pile driving is planned during construction of the SP  
24 Slip Promenade. With the use of medium construction equipment, the  $L_{eq}$  at the  
25 nearest residence on Beacon Street 540 feet away would be 67 dBA. The nearest  
26 residence is close to Sites ST-4 where the ambient  $L_{eq}$  is 62.6 dBA. With a noise  
27 increase of less than 5 dB at the property line of the nearest sensitive receiver,  
28 construction noise would not exceed the significance threshold.

29           City Dock No. 1 Promenade: The City Dock Promenade would be built on the  
30 existing City Dock No. 1 structure, but pile driving would occur on the east side  
31 of City Dock No. 1 next to the main channel. Live-aboards are located in the  
32 Cabrillo Marina Phase II area, 1,380 feet west of where pile driving activity at  
33 City Dock No. 1 would be taking place. About 1,190 feet east of City Dock No.  
34 1 across the main channel is Terminal Island. The construction noise level at the  
35 Cabrillo Marina Phase II due to pile driving is projected to be 73 dBA. The  
36 location of the Cabrillo Marina Phase II is close to Site ST-13, which has an  
37 ambient  $L_{eq}$  of 53.9 dBA. Both the ambient and construction noise levels at  
38 Terminal Island would be very similar to those at the marina. With an increase  
39 of over 19 dB at the property line of the nearest sensitive receiver, construction  
40 noise would exceed the significance threshold.

41           Outer Harbor Promenade: The noise due to the construction of the Outer Harbor  
42 Promenade is expected to be similar to the noise generated by the City Dock  
43 No. 1 Promenade. Live-aboards are located in the Cabrillo Marina Phase II  
44 about 40 feet away from construction at the Outer Harbor Promenade. The noise  
45 level at the location of the live-aboards due to medium construction equipment is  
46 projected to be 87 dBA. The live-aboards are close to Site ST-13, which has an

1 ambient  $L_{eq}$  of 53.9 dBA. With an increase of over 33 dB at the property line of  
2 the nearest sensitive receiver, construction noise would exceed the significance  
3 threshold.

4 Cabrillo Beach Youth Camp: With medium construction equipment involved,  
5 the nearest sensitive receiver to the Cabrillo Beach Youth Camp Promenade  
6 would experience an  $L_{eq}$  of 63 dBA at 650 feet from construction. Based on a  
7 reference ambient noise level of 53.9 dBA (same as Site ST-13) for the sensitive  
8 receiver, a noise increase of over 9 dB would occur at the property line of the  
9 nearest sensitive receiver; therefore, construction noise would exceed the  
10 significance threshold.

11 Salt Marsh Promenade: The Salt Marsh Promenade is about 420 feet away from  
12 the nearest residence at Fort MacArthur. No pile driving has been specified, so  
13 the nearest residence can expect an  $L_{eq}$  of 67 dBA resulting from the use of  
14 medium construction equipment. Site ST-13, which has an ambient  $L_{eq}$  of  
15 53.9 dBA, is the closest measurement site to the nearest residence. With an  
16 increase of over 13 dB at the property line of the nearest sensitive receiver,  
17 construction noise would exceed the significance threshold.

#### 18 **Pedestrian and Waterfront Access Linkages:**

19 Pedestrian Bridge at 13<sup>th</sup> Street: The Pedestrian Bridge at 13<sup>th</sup> Street would be  
20 close to residences on Beacon Street; the nearest residence is about 70 feet away.  
21 The construction noise level at this residence resulting from the close proximity  
22 of the residence to construction activities is projected to be 83 dBA. The nearest  
23 measurement site is Site ST-4. Site ST-4 has an ambient  $L_{eq}$  of 62.6 dBA. With  
24 an increase of over 20 dB at the property line of the nearest sensitive receiver,  
25 construction noise would exceed the significance threshold.

26 1<sup>st</sup> Street Access: The 1<sup>st</sup> Street waterfront access is about 220 feet away from  
27 the nearest sensitive receiver, which is a residence located on Harbor Boulevard.  
28 The ambient noise level at this residence is similar to the ambient noise level at  
29 Site ST-2. Site ST-2 has an  $L_{eq}$  of 68.3 dBA. With the presence of construction  
30 noise, the  $L_{eq}$  at the residence is projected to be 74 dBA. With an increase of  
31 over 5 dB at the property line of the nearest sensitive receiver, construction noise  
32 would exceed the significance threshold.

33 3<sup>rd</sup> Street Access: The nearest sensitive receiver to the 3<sup>rd</sup> Street waterfront  
34 access is a residence on Harbor Boulevard at 3<sup>rd</sup> Street. This residence would  
35 expect an  $L_{eq}$  of 78 dBA due to construction noise. The location of the 3<sup>rd</sup> Street  
36 access is also the location of Site ST-2. The ambient  $L_{eq}$  at Site ST-2 was 68.3  
37 dBA. With an increase of over 9 dB at the property line of the nearest sensitive  
38 receiver, construction noise would exceed the significance threshold.

39 5<sup>th</sup> Street Access: The noise at the nearest sensitive receiver to the 5<sup>th</sup> Street  
40 waterfront access would expect an  $L_{eq}$  of 74 dBA. The nearest sensitive receiver  
41 is close to Site ST-6. Site ST-6 has an ambient  $L_{eq}$  of 70.4 dBA. With an  
42 increase of less 4 dB at the property line of the nearest sensitive receiver,  
43 construction noise would not exceed the significance threshold.

1                    6<sup>th</sup> Street Access: The noise at the nearest sensitive receiver to the 6<sup>th</sup> Street  
2 waterfront access would expect an  $L_{eq}$  of 78 dBA. The nearest sensitive receiver  
3 is close to Site ST-6. Site ST-6 has an ambient  $L_{eq}$  of 70.4 dBA. With an  
4 increase of over 7 dB at the property line of the nearest sensitive receiver,  
5 construction noise would exceed the significance threshold.

6                    7<sup>th</sup> Street Access: The Sunrise Hotel is the closest sensitive receiver to the  
7 7<sup>th</sup> Street waterfront access. The  $L_{eq}$  at the Sunrise Hotel due construction noise  
8 is projected to be 72 dBA. Site ST-6, which is in front of the Sunrise Hotel, has  
9 an ambient  $L_{eq}$  of 70.4 dBA. With an increase of less than 2 dB at the property  
10 line of the nearest sensitive receiver, construction noise would not exceed the  
11 significance threshold.

12                    **Vehicular Access at 1<sup>st</sup> Street:** The  $L_{eq}$  at a residence on Harbor Boulevard, which  
13 is also the nearest sensitive receiver, would be about the same as that noise which is  
14 due to the pedestrian waterfront access at 1<sup>st</sup> Street. An  $L_{eq}$  of 74 dBA due to  
15 construction noise is projected at the residence. The location of the 1<sup>st</sup> Street access  
16 is close to Site ST-2, which has an ambient  $L_{eq}$  of 68.3 dBA. With an increase of  
17 over 5 dB at the property line of the nearest sensitive receiver, construction noise  
18 would exceed the significance threshold.

19                    **Fishermen's Park:** Fishermen's Park would be located in the Ports O'Call. Only  
20 medium construction is expected to be used. The nearest residence is over 1,120 feet  
21 away on Beacon Street. The projected noise level at the nearest residence is 64 dBA.  
22 The nearest residence is close to Site ST-4. Site ST-4 has an ambient  $L_{eq}$  of 62.6  
23 dBA. With an increase of less than 2 dB at the property line of the nearest sensitive  
24 receiver, construction noise would not exceed the significance threshold.

25                    **Outer Harbor Park:** Outer Harbor Park is about 510 feet away from live-aboards in  
26 the Cabrillo Marina Phase II area. The  $L_{eq}$  at the location of the live-aboards  
27 resulting from medium construction equipment is projected to be 66 dBA. The  
28 closest measurement site is to the live-aboards is Site ST-13, which has an ambient  
29  $L_{eq}$  of 53.9 dBA. With an increase of over 12 dB at the property line of the nearest  
30 sensitive receiver, construction noise would exceed the significance threshold.

31                    **San Pedro Park:** The closest sensitive receiver to San Pedro Park is a residence  
32 near the corner of Harbor Boulevard and Crescent Avenue; it is about 190 feet away  
33 from San Pedro Park. Using medium equipment, the noise level at nearest residence  
34 due to construction is projected to be 74 dBA. The location of the nearest residence  
35 is close to Site ST-10. Site ST-10 has an ambient  $L_{eq}$  of 55.8 dBA. With an increase  
36 of over 18 dB at the property line of the nearest sensitive receiver, construction noise  
37 would exceed the significance threshold.

38                    **Warehouses Nos. 9 and 10:** The current uses would be scheduled to vacate the  
39 premises of Warehouses Nos. 9 and 10, so no actual construction activity is planned.  
40 Using the lowest noise level group to estimate the noise impacts, the nearest  
41 residence, which is about 340 feet away, would expect an  $L_{eq}$  of 66 dBA due to reuse  
42 of the structures. The location of the nearest sensitive receiver is at 17<sup>th</sup> Street and  
43 Crescent Avenue, which is also the location of Site ST-7. Site ST-7 has an ambient

1  $L_{eq}$  of 60.7 dBA. With an increase of over 5 dB at the property line of the nearest  
2 sensitive receiver, construction noise would exceed the significance threshold.

### 3 **Cruise Ship Facilities:**

4 Inner Harbor Berths and Terminal Facilities: Construction of the terminal  
5 facility would be located close to the waterfront in the North Harbor about 1,050  
6 feet from the nearest sensitive receiver, which is located on Harbor Boulevard.  
7 The  $L_{eq}$  due to construction noise at the nearest sensitive receiver is projected to  
8 be 70 dBA. The nearest sensitive receiver is close to Site ST-2. Site ST-2 has an  
9 ambient  $L_{eq}$  of 68.3 dBA. With an increase of less than 2 dB at the property line  
10 of the nearest sensitive receiver, construction noise would not exceed the  
11 significance threshold.

12 Outer Harbor Berths and Terminal Facilities: The construction of the Outer  
13 Harbor Berth would involve pile driving. The nearest sensitive receiver to the  
14 construction area is a live-aboard in the Cabrillo Marina Phase II area 660 feet  
15 away. The noise that would be generated by construction of the Outer Harbor  
16 Berth is projected to be 79 dBA at the location of the live-aboard. The live-  
17 aboard is close to Site ST-13. Site ST-13 has an ambient  $L_{eq}$  of 53.9 dBA. With  
18 an increase of over 25 dB at the property line of the nearest sensitive receiver,  
19 construction noise would exceed the significance threshold.

20 Inner Harbor Parking Structure: The nearest sensitive receiver to the Inner  
21 Harbor Parking Structure is located on Beacon Street 420 feet west of where  
22 construction would be occurring. Site ST-12, which is the nearest measurement  
23 site, has an ambient  $L_{eq}$  of 62.1 dBA. The  $L_{eq}$  at the nearest sensitive receiver  
24 due to construction noise is projected to be 72 dBA. With an increase of over 9  
25 dB at the property line of the nearest sensitive receiver, construction noise would  
26 exceed the significance threshold.

27 Outer Harbor Parking Structure: Live-aboards are the closest sensitive receivers  
28 to where the Outer Harbor parking structure would be built. The nearest live-  
29 aboard to the Outer Harbor is projected to experience an  $L_{eq}$  of 69 dBA due to  
30 heavy construction at the Outer Harbor Parking Structure. Site ST-13, which has  
31 an ambient  $L_{eq}$  of 53.9 dBA, is the closest measurement site to the live-aboard.  
32 With an increase of over 15 dB at the property line of the nearest sensitive  
33 receiver, construction noise would exceed the significance threshold.

### 34 **Ports O'Call Redevelopment**

35 Development: The closest sensitive receiver to the Ports O'Call development  
36 would be one of the residences that lie along Beacon Street close to near  
37 Site ST-5, where the ambient  $L_{eq}$  is 62.4 dBA. The  $L_{eq}$  due to construction is  
38 projected to be 68 dBA. With an increase of less than 4 dB at the property line of  
39 the nearest sensitive receiver, construction noise would not exceed the  
40 significance threshold.

41 Parking: With the use of heavy equipment, noise levels at the nearest residence  
42 on Beacon Street due to the construction of the Ports O'Call parking structures  
43 would produce an  $L_{eq}$  of 76 dBA. The closest measurement site to the nearest

1 residence is Site ST-4. Site ST-4 has an  $L_{eq}$  of 62.6 dBA. With an increase of  
2 over 13 dB at the property line of the nearest sensitive receiver, construction  
3 noise would exceed the significance threshold.

4 **S.P. Railyard Demolition:** Due to the use of heavy construction equipment that  
5 would be used during the demolition of the S.P. Railyard, the  $L_{eq}$  at the nearest  
6 residence on Beacon Street is projected to be 75 dBA. The nearest residence is 260  
7 feet away from construction activity at the S.P. Railyard is close to Site ST-5. Site  
8 ST-5 has an ambient  $L_{eq}$  of 62.4 dBA. With an increase of over 12 dB at the property  
9 line of the nearest sensitive receiver, construction noise would exceed the  
10 significance threshold.

11 **Waterfront Red Car Maintenance Facility:** The Waterfront Red Car Maintenance  
12 Facility refers to both the old facility and the new facility.

13 Temporary Location of Waterfront Red Car Maintenance Facility: Medium  
14 construction would be involved and would produce a noise level of 61 dBA at the  
15 nearest residence, which is close to Site ST-10. Site ST-10 has an ambient  $L_{eq}$  of  
16 55.8 dBA, so construction noise would exceed the significance threshold.

17 New Location: The new Waterfront Red Car Maintenance Facility would be  
18 located at the 13<sup>th</sup> Street Bluff, and medium sized equipment would be used  
19 during construction. The  $L_{eq}$  at the nearest residence is projected to be 73 dBA.  
20 Site ST-5, which is close to the nearest residence, has an ambient  $L_{eq}$  of 62.4  
21 dBA. With an increase of over 10 dB at the property line of the nearest sensitive  
22 receiver, construction noise would exceed the significance threshold.

23 **Ralph J. Scott Fireboat Display:** Construction of the display building, which  
24 would house the Ralph J. Scott Fireboat, would involve heavy construction  
25 equipment and would produce an  $L_{eq}$  which is projected to be 74 dBA at the Sunrise  
26 Hotel, or Site ST-6, which has an ambient  $L_{eq}$  of 70.4 dBA. With an increase of less  
27 than 3 dB at the property line of the nearest sensitive receiver, construction noise  
28 would not exceed the significance threshold.

29 **Demolition of Westway Terminal:** The Westway Terminal is about 1,010 feet from  
30 live-aboards in the Cabrillo Marina Phase II area. Demolition of the Westway  
31 Terminal would involve heavy construction equipment. The live-aboards in the  
32 marina can expect an  $L_{eq}$  of 64 dBA due to construction activities. The live-aboards  
33 are close to Site ST-13, which has an  $L_{eq}$  of 53.9 dBA. With an increase of over 10  
34 dB at the property line of the nearest sensitive receiver, construction noise would  
35 exceed the significance threshold.

#### 36 **Tugboat Buildings:**

37 Crowley Tug Building: Construction of the new 10,000 sq. ft. Crowley tugboat  
38 building would generate an  $L_{eq}$  which is projected to be 77 dBA at the nearest  
39 residence, which is about 240 feet away on Harbor Boulevard. Site ST-2, which  
40 is the closest measurement site, has a measured ambient  $L_{eq}$  of 68.3 dBA. With  
41 an increase of over 8 dB at the property line of the nearest sensitive receiver,  
42 construction noise would exceed the significance threshold.

1                    Millennium Tug Building: The construction of the Millennium tugboat building  
2 would generate an  $L_{eq}$  that is projected to be 73 dBA at the nearest residence,  
3 which is about 390 feet away on Harbor Boulevard. Site ST-2, which is the  
4 closest measurement site, has a measured ambient  $L_{eq}$  of 68.3 dBA. With an  
5 increase of less than 5 dB at the property line of the nearest sensitive receiver,  
6 construction noise would not exceed the significance threshold.

7                    **Los Angeles Maritime Institute**: New construction using medium equipment  
8 would produce an  $L_{eq}$  of 74 dBA at the nearest residence 220 feet away. Site ST-2,  
9 which has an ambient  $L_{eq}$  of 68.3 dBA, is the closest measurement site to the nearest  
10 sensitive receiver. With an increase of just over 5 dB at the property line of the  
11 nearest sensitive receiver, construction noise would exceed the significance  
12 threshold.

13                    **S.S. Lane Victory**: Currently, the S.S. Lane Victory is located at Berth 94 and is  
14 about 2,000 feet away from the nearest sensitive receiver, which is located on Harbor  
15 Boulevard. The ambient noise level at the Vincent Thomas Bridge near Berth 94 was  
16 measured to be 73.3 dBA. Due to the remoteness of Berth 94 from the nearest  
17 sensitive receiver and the high ambient noise levels that already exist at Berth 94, no  
18 significant noise impacts due to construction activities at Berth 94 are projected. The  
19 S.S. Lane Victory would be relocated to the Inner Harbor and would be about 250  
20 feet from the nearest residence on Harbor Boulevard. The nearest residence to the  
21 new location of the S.S. Lane Victory is close to Site ST-2. Site ST-2 has an  $L_{eq}$  of  
22 68.3 dBA. Relocation of the S.S. Lane Victory should involve only small  
23 construction equipment, so the  $L_{eq}$  at nearest residence due to construction activities  
24 is projected to be 71 dBA. With an increase of less than 3 dB at the property line of  
25 the nearest sensitive receiver, construction noise would not exceed the significance  
26 threshold.

#### 27                    **Fueling Station:**

28                    Existing Jankovich Fueling Station: Currently, Jankovich Fueling Station is  
29 located at the southern portion of the Ports O'Call. The nearest residence to the  
30 existing Jankovich station is on Beacon Street 1,500 feet to the west. With the  
31 use of small construction equipment in the removal of the current facility, the  $L_{eq}$   
32 at the nearest residence is projected to be 57 dBA. Site ST-10 is the closest  
33 measurement site to the nearest residence, and it has an  $L_{eq}$  of 55.8 dBA. With  
34 an increase of less than 2 dB at the property line of the nearest sensitive receiver,  
35 construction noise at the nearest sensitive receiver would not exceed the  
36 significance threshold.

37                    Proposed Fueling Station at Berth 240: Under the proposed Project, a new  
38 fueling station would be developed at Berth 240 on Terminal Island.  
39 Construction of the new facility at Berth 240 would involve pile driving. The  
40 closest sensitive receiver to the new fueling facility is located on the west side of  
41 Terminal Island, 1,660 feet south of Berth 240. Because of its close proximity to  
42 the Main Channel, the existing ambient  $L_{eq}$  at the nearest sensitive receiver on the  
43 west side of Terminal Island would be similar in magnitude to the  $L_{eq}$  measured  
44 at Site ST-11. Site ST-11, which is adjacent to the Main Channel at Ports O'  
45 Call, has an  $L_{eq}$  of 54.9 dBA. The noise level at the nearest sensitive receiver due

1 to pile driving at Berth 240 is projected to be 71 dBA. With an increase of over  
2 16 dB at the property line of the nearest sensitive receiver, construction of the  
3 new fueling station at Berth 240 would cause the noise to exceed the significance  
4 threshold.

5 **Catalina Channel Express, Inc (Catalina Express):** Pile driving would be taking  
6 place at the Catalina Express terminal at Berth 94. The noise from pile driving and  
7 other construction would generate an  $L_{eq}$  of 73 dBA at the nearest residence, which is  
8 about 1,970 feet to the west of Berth 94. Site ST-14 is the closest measurement site  
9 to the sensitive receiver, and it has an ambient  $L_{eq}$  of 70.2 dBA. With an increase of  
10 less than 3 dB at the property line of the nearest sensitive receiver, construction noise  
11 would not exceed the significance threshold.

12 **Expansion of Sampson Way:** With the use of heavy construction equipment  
13 involved in the expansion of Sampson Way, the  $L_{eq}$  at the nearest residence, which  
14 lies on Beacon Street and is 440 feet away from the construction, is projected to be  
15 71 dBA. The nearest measurement site to the nearest residence is Site ST-5. Site  
16 ST-5 has an ambient  $L_{eq}$  of 62.4 dBA. With an increase of over 8 dB at the property  
17 line of the nearest sensitive receiver, construction noise would exceed the  
18 significance threshold.

19 **7<sup>th</sup> Street/Sampson Way Intersection Improvements:** The intersection  
20 improvements at the crossing of 7<sup>th</sup> Street and Sampson Way would involve medium  
21 construction equipment. At 470 feet from the proposed Project, the  $L_{eq}$  at the nearest  
22 residence is projected to be 72 dBA as a result of construction. The closest  
23 measurement site to the nearest residence is Site ST-6, which is located on Harbor  
24 Boulevard. Site ST-6 has an  $L_{eq}$  of 70.4 dBA. With an increase of less than 2 dB at  
25 the property line of the nearest sensitive receiver, construction noise would not  
26 exceed the significance threshold.

#### 27 **Harbor Boulevard Improvements:**

28 Landscaping: Landscape and hardscape improvements along Harbor Boulevard  
29 have been proposed for the proposed Project. The nearest sensitive receiver is on  
30 Beacon Street south of 7<sup>th</sup> Street about 30 feet away from where landscaping  
31 would be occurring on the west side of Harbor Boulevard. With the use of small  
32 equipment during construction, the  $L_{eq}$  is projected to be 85 dBA at the nearest  
33 sensitive receiver. The closest measurement site is ST-4. Site ST-4 has an  $L_{eq}$  of  
34 62.6 dBA. With an increase of over 22 dB at the property line of the nearest  
35 sensitive receiver, construction noise would exceed the significance threshold.

36 Lane Capacity: The nearest receptors north of 7<sup>th</sup> Street are about 40 feet away  
37 from where construction along the median of Harbor Boulevard would be  
38 occurring. The closest measurement site is Site ST-6. Site ST-6, which is also  
39 on Harbor Boulevard, has an  $L_{eq}$  of 70.4 dBA. The  $L_{eq}$  at the nearest sensitive  
40 receiver is projected to be 91 dBA. With an increase of over 20 dB at the  
41 property line of the nearest sensitive receiver, construction noise would exceed  
42 the significance threshold.

1           **Surface Parking Adjacent to Acapulco Restaurant:** Surface parking is planned  
2 west of the Acapulco restaurant. Only medium construction equipment would be  
3 involved in construction. Site ST-6, which has an  $L_{eq}$  of 70.4 dBA, is the closest  
4 measurement site. The  $L_{eq}$  generated by construction is projected to be 72 dBA at the  
5 nearest residence. With an increase of less than 2 dB at the property line of the  
6 nearest sensitive receiver, construction noise would not exceed the significance  
7 threshold.

8           **Waterfront Red Car Extension:** The Waterfront Red Car Line would be extended  
9 south of 22<sup>nd</sup> Street to the Outer Harbor along Miner Street and to Cabrillo Beach  
10 along Shoshonean Way. The area where Shoshonean Way passes by the Doubletree  
11 Hotel is the point where the Waterfront Red Car Line is closest to a sensitive  
12 receiver. When medium construction equipment is being used, a portion of the  
13 Doubletree Hotel that is about 50 feet away from where construction would occur  
14 would experience an  $L_{eq}$  of 86 dBA. Site ST-10, which is the closest measurement  
15 site to the Doubletree Hotel, has an ambient  $L_{eq}$  of 55.8 dBA. With an increase of  
16 more than 30 dB at the property line of the nearest sensitive receiver, construction  
17 noise would exceed the significance threshold.

18           **Dredge and Fill Activities:** For the proposed Project, a total of 605,000 cubic yards  
19 of material would be dredged from the North, Downtown, and 7<sup>th</sup> Street Harbors, and  
20 these are the only locations where dredging would occur. Pile driving has also been  
21 slated at all three of these locations. The noise that results from dredging is  
22 automatically accounted for when a proposed project element is assigned to the pile  
23 driving noise group because dredging equipment is included in the pile driving  
24 construction equipment mix. All construction items that require pile driving and  
25 dredging have been addressed elsewhere in this section under their respective  
26 proposed project element paragraphs. It was determined that all of the construction  
27 items that require dredging would make a significant construction noise impact. See  
28 the paragraphs describing construction for the North, Downtown, and 7<sup>th</sup> Street  
29 Harbors project elements.

### 30           **CEQA Impact Determination**

31           Construction due to the proposed Project would cause a significant impact. The  
32 following mitigation measure would help to reduce impacts resulting from  
33 construction noise.

#### 34           Mitigation Measures

35           **MM NOI-1. Construct temporary noise barriers, use quiet construction**  
36 **equipment, and notify residents.** The following will reduce the impact of noise  
37 from construction activities:

- 38           a) **Temporary Noise Barriers.** When construction is occurring within 500 feet of  
39 a residence or park, temporary noise barriers (solid fences or curtains) will be  
40 located between noise-generating construction activities and sensitive receivers.



- 1                   b) **Quiet Equipment Selection.** Select quiet construction equipment whenever  
2                   possible. Comply where feasible with noise limits established in the City of Los  
3                   Angeles Noise Ordinance.
- 4                   c) **Notification.** Notify residents within 500 feet to the proposed project site of the  
5                   construction schedule in writing.

### 6                   Residual Impacts

7                   Even after implementation of Mitigation Measures MM NOI-1, considering the  
8                   distances between the construction noise sources and receivers, the standard controls  
9                   and temporary noise barriers would not be sufficient to reduce the projected increase  
10                  in the ambient noise level to the point where it would no longer cause a substantial  
11                  increase. Construction equipment noise levels generated would remain significant.  
12                  Thus, impacts to residents resulting from buffer construction, as well as impacts to  
13                  live-aboards from construction, would be significant and unavoidable.

### 14                  **NEPA Impact Determination**

15                  Impacts would be significant, but to a lesser extent than analyzed under CEQA (i.e.,  
16                  many of the upland locations are not subject to federal control and responsibility or  
17                  NEPA). The following proposed project elements would make a significant impact  
18                  under NEPA:

- 19                  ■ North Harbor
- 20                  ■ Downtown Harbor
- 21                  ■ 7<sup>th</sup> Street Harbor
- 22                  ■ 7<sup>th</sup> Street Pier
- 23                  ■ Waterfront Promenade
- 24                     □ Ports O'Call
- 25                     □ City Dock No. 1
- 26                     □ Outer Harbor
- 27                     □ Cabrillo Beach
- 28                     □ Salt Marsh
- 29                  ■ Cruise Ship Facilities
- 30                     □ Outer Harbor Berths and Terminal Facilities
- 31                  ■ Tugboats
- 32                     □ Crowley Tug Building
- 33                  ■ Los Angeles Maritime Institute
- 34                  ■ New fueling facility at Berth 240

1                    Mitigation Measures

2                    Implement Mitigation Measure MM NOI-1.

3                    Residual Impacts

4                    Impacts would be significant and unavoidable.

5                    **Impact NOI-2: Construction activities for the proposed**  
6                    **Project would not exceed the ambient noise level by 5 dBA**  
7                    **at a noise sensitive use between the hours of 9:00 p.m. and**  
8                    **7:00 a.m. Monday through Friday, before 8:00 a.m. or after**  
9                    **6:00 p.m. on Saturday, or at any time on Sunday.**

10                    No construction activities are planned to occur between the hours of 9:00 p.m. and  
11                    7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
12                    at any time on Sunday.

13                    **CEQA Impact Determination**

14                    Impacts would be less than significant.

15                    Mitigation Measures

16                    No mitigation is required.

17                    Residual Impacts

18                    Impacts would be less than significant.

19                    **NEPA Impact Determination**

20                    Impacts would be less than significant.

21                    Mitigation Measures

22                    No mitigation is required.

23                    Residual Impacts

24                    Impacts would be less than significant.

1                   **Impact NOI-3a: The proposed Project would cause noise**  
2                   **from motor vehicle traffic measured at the property line of**  
3                   **affected uses to increase by 3 dBA in CNEL, to or within the**  
4                   **“normally unacceptable” or “clearly unacceptable” category,**  
5                   **or any 5 dBA or greater noise increase.**

6                   This section examines traffic noise impacts from the proposed Project on the  
7                   surrounding land uses. Increases in traffic noise levels due to traffic generated by the  
8                   proposed Project are also examined. Impacts from noise produced by traffic  
9                   generated by the proposed Project are estimated based on the traffic projections  
10                  presented in the traffic study prepared for the proposed Project by Fehr & Peers/Kaku  
11                  Associates in May 2008 (Appendix M).

12                  **CEQA Traffic Impacts**

13                  To estimate the traffic noise level increases and impacts due to the development of  
14                  the proposed Project, comparisons have been made between the noise levels  
15                  generated by three different proposed Project scenarios. Table 3.9-7 shows the noise  
16                  levels and changes for some of these scenarios for all roadway segments. The first  
17                  scenario is the existing baseline condition, and the noise level for this scenario, which  
18                  is shown in the third column of Table 3.9-7, is the noise level in CNEL generated by  
19                  existing (2007) traffic volumes. The second scenario is the existing-plus-project  
20                  noise condition, and the noise level for this scenario, which is shown in the fourth  
21                  column of Table 3.9-7, is the noise level in CNEL that would exist today if the  
22                  proposed Project were already built. This noise level is based on the addition of the  
23                  existing traffic volume and a change in traffic volume attributable to the proposed  
24                  Project. The change in traffic volume attributable to the proposed Project is based on  
25                  the year 2037 projected traffic volumes and represents the difference between the  
26                  year 2037 with-project traffic volume and the year 2037 without-project traffic  
27                  volume. The third scenario is the year 2037 with-project condition, and the noise  
28                  level for this scenario is the noise level that would exist in the year 2037 if the  
29                  proposed Project were built.

30                  A comparison between the existing noise level and the existing-plus-project noise  
31                  level yields a change in noise level attributable to the proposed Project as it would  
32                  exist today. This is shown in the fifth column of Table 3.9-7. A comparison between  
33                  the existing noise level and the year 2037 with-project noise level yields the  
34                  cumulative increase in noise which is attributable to the proposed Project as well as  
35                  growth in the area between now and the year 2037. This is shown in the sixth  
36                  column of Table 3.9-7. Traffic noise level increases greater than or equal to 3 dB,  
37                  but less than 5 dB are shown in bold font, and traffic noise level increases greater  
38                  than or equal to 5 dB are shown in bold underline font. Roadway segments that  
39                  experience traffic noise increases greater than 3 dB are discussed in detail following  
40                  the table. There are six roadway segments that are predicted by the model to have a 3  
41                  dB or greater noise increase due to the proposed Project.

42                  Traffic noise increases for the year 2015 were also examined, and for all roadway  
43                  segments, the traffic volumes for the year 2015 were found to be less than the traffic

1 volumes for the year 2037. Therefore, the noise increases due to traffic in the year  
 2 2015 would be less than the noise increases due to traffic in the year 2037.

3 **Table 3.9-7. Traffic Noise Increases Due To the Proposed Project**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	62.3	<b><u>9.4</u></b>	<b><u>10.5</u></b>
Harbor Boulevard to Centre Street	30	56.8	60.9	<b>4.1</b>	<b><u>6.2</u></b>
Centre Street to Pacific Avenue	30	61.4	63.2	1.8	<b>3.3</b>
Pacific Avenue to Grand Avenue	30	62.5	63.9	1.4	2.8
Grand Avenue to Gaffey Street	30	63.5	64.7	1.2	2.5
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.8	0.5	<b>3.7</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-10.3
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.4
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-11.1
Harbor Boulevard to Centre Street	30	58.2	57.3	-0.9	0.6
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.4	0.1	1.0
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.1	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	63.8	<b><u>11.2</u></b>	<b><u>11.2</u></b>
Harbor Boulevard to Centre Street	30	62.6	63.5	0.9	1.7

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
Centre Street to Pacific Avenue	30	59.8	60.0	0.2	1.5
Pacific Avenue to Grand Avenue	30	60.4	60.5	0.1	1.4
Grand Avenue to Gaffey Street	30	62.8	62.9	0.1	1.2
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.9	0.2	1.7
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.3
Grand Avenue to Gaffey Street	35	66.5	66.6	0.1	1.2
Gaffey Street to Patton Avenue	35	67.8	67.9	0.1	1.0
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1
Western Avenue to Chandeleur Drive	35	65.1	65.2	0.1	1.0
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	59.0	0.3	1.0
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.9	0.1	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.1	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	60.3	<b>3.0</b>	<b>3.5</b>
Miner Street to Via Cabrillo Marina	25	63.4	64.2	0.8	1.6

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
Via Cabrillo Marina to Mesa Street	25	63.2	64.1	0.9	1.6
Mesa Street to Pacific Avenue	25	63.4	64.2	0.8	1.5
Pacific Avenue to Grand Avenue	25	61.5	62.6	1.1	1.8
Grand Avenue to Gaffey Street	25	62.0	62.9	0.9	1.6
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	67.0	0.2	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	1.0
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	1.0
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	72.1	2.5	<u>6.7</u>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.2
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.9	0.2	0.9
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.7	0.2	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.1	1.0
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.1	1.0
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.1	1.0
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.1	1.0
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.2	0.2	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.4	0.2	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.7	0.2	0.9

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	70.0	0.2	0.9
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.5	0.2	1.0
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.3	0.2	1.0
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.6	0.3	1.1
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.4	0.3	1.1
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	1.0
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	56.3	0.4	1.2
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.7	0.6	2.5
Knoll Drive to 110 Freeway	35	65.8	66.2	0.4	2.3
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	70.0	1.4	<b>4.0</b>
Swinford Street to Beacon Street	35	70.9	72.5	1.6	2.4
Beacon Street to O'Farrell Street	35	71.4	73.1	1.7	<b>3.0</b>
O'Farrell Street to Santa Cruz Street	35	71.3	73.1	1.8	<b>3.1</b>
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	72.8	2.0	<b>3.1</b>
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	72.6	2.1	<b>3.0</b>
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	72.4	2.1	<b>3.0</b>
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	72.4	2.2	<b>3.0</b>
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	72.1	2.5	<b>3.2</b>
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	72.0	2.8	<b>3.4</b>
7 <sup>th</sup> Street to Gulch Road	35	67.7	70.2	2.5	<b>3.2</b>
Gulch Road to Crescent Avenue	35	67.5	69.9	2.4	<b>3.1</b>
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	69.1	<b>3.1</b>	<b>3.8</b>
South of 22 <sup>nd</sup> Street	35	57.0	67.9	<b>10.9</b>	<b>11.8</b>
<b>O'Farrell Street</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
Harbor Boulevard to Centre Street	25	56.2	56.3	0.1	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	67.0	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.2	0.1	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	48.7	-11.8	<b>8.3</b>
47 Ramp	35	68.9	69.9	1.0	1.7
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus Project CNEL @50 ft</i>	<i>dB Increase Due To Project</i>	<i>Cumulative Increase Over 2007</i>
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* The proposed Project removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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**1<sup>st</sup> Street**

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**East of Harbor Boulevard**

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No residences exist east of Harbor Boulevard. Currently, the traffic traveling along this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup> Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase in noise of 9.4 dB over existing conditions, the projected noise due to the Project would be 62.3 CNEL. Although this roadway is projected to have an apparent increase of 9.4 dB as a result of the proposed Project according to the model, this increase is misleading because the model does not take into account noise generated by adjacent roadways. The effect of noise contributions from adjacent roadways can increase the existing noise level above what is reported by the model. Usually, it is the noise from the roadway being modeled that determines the noise level, and the model provides an accurate estimate of the noise level. In this case, however, 1<sup>st</sup> Street east of Harbor Boulevard is very close to Harbor Boulevard, and the existing ambient noise contribution along 1<sup>st</sup> Street due to noise emanating from Harbor Boulevard is higher than the noise contribution due to 1<sup>st</sup> Street alone. Because of this, the modeled existing noise level for 1<sup>st</sup> Street east of Harbor Boulevard is underreported by the model. The section of Harbor Boulevard close to 1<sup>st</sup> Street has a modeled existing noise level of 70.5 CNEL. When the noise contribution from Harbor Boulevard is accounted for, the existing noise level along 1<sup>st</sup> Street is much higher than the modeled noise level due to the Project. No significant noise impacts would occur along this roadway segment.

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**Harbor Boulevard to Centre Street**

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This section of the roadway is almost completely surrounded by residences on both sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and 58.6 CNEL at the property line of the residences. The projected with-project noise level would be 60.9 CNEL at 50 feet and 62.7 CNEL at the property line of the nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in

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1 noise is 4.1 dB, and the with-project noise is less than 70 dBA. This roadway  
2 segment would not experience a significant noise impact since the noise at the  
3 property line does not exceed 70 CNEL and the total increase in CNEL is less than 5  
4 dBA.

### 5 **7<sup>th</sup> Street**

#### 6 Sampson Way to Harbor Boulevard

7 This is the roadway segment that would accept northbound traffic exiting from  
8 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
9 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
10 this section of the roadway. The nearest affected use is a government office building  
11 at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet beyond the end point  
12 of the roadway segment. Since this office building is located on Harbor Boulevard,  
13 the current noise level at the property line of the office building is due mainly to  
14 traffic traveling along Harbor Boulevard. The current traffic along Harbor Boulevard  
15 from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2 dBA. The projected with-  
16 project noise level along 7<sup>th</sup> Street is 63.8 CNEL at 50 feet, and at 110 feet (i.e., the  
17 distance from 7<sup>th</sup> Street between Sampson Way and Harbor Boulevard to the office  
18 building) this noise would be 60.4 CNEL. The with-project noise impact from  
19 7<sup>th</sup> Street between Sampson Way and Harbor Boulevard would produce less noise at  
20 the property line of the nearest affected use (i.e., City Hall) than what currently exists  
21 at City Hall. Under the with-project condition, fewer vehicles would travel down 7<sup>th</sup>  
22 Street, and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This roadway  
23 segment would not experience a significant increase in noise, and no significant  
24 impact is projected.

### 25 **22<sup>nd</sup> Street**

#### 26 Signal Place to Miner Street

27 There is a warehouse along the roadway segment at 50 feet from the roadway. The  
28 modeled noise level for existing conditions is 57.3 CNEL at 50 feet from the  
29 centerline of the roadway. With a project-only noise increase over existing  
30 conditions of 3.0 dB, the with-project noise level is modeled to be 60.3 CNEL at 50  
31 feet. No residences are located along this section of the roadway, and the nearest  
32 residence is over 1,200 feet away. Since the with-project noise levels are well below  
33 70 CNEL and since the noise increase is 3.0 dB, there would not be any significant  
34 noise impact along this roadway.

### 35 **Miner Street**

#### 36 Crescent Avenue to 22<sup>nd</sup> Street

37 No residences are located on Miner Street along this section of the roadway. The  
38 nearest residence is just north of this section of the roadway near the corner of  
39 Crescent Avenue and Harbor Boulevard. The only nearest affected uses are  
40 Warehouses No. 9 and No. 10 and the temporary Waterfront Red Car maintenance

1 Facility. The closest affected use is 85 feet from the roadway. The modeled noise  
2 level for existing conditions is 66.0 CNEL at 50 feet and 63.7 CNEL at 85 feet. The  
3 proposed project-only noise increase over existing conditions would be 3.1 dB,  
4 making the with-project noise level is 69.1 CNEL at 50 feet and 66.8 CNEL at 85  
5 feet. With a with-project noise level of less than 70 CNEL and a noise increase of  
6 3.1 dB, there would not be a significant noise impact to this roadway segment.

### 7 South of 22<sup>nd</sup> Street

8 This roadway leads into and out of the Outer Harbor. Adjacent to this roadway  
9 segment is the Cabrillo Marina. The closest affected uses to this roadway segment  
10 are live-aboards in the marina. The distance from the roadway to the live-aboards is  
11 at least 80 feet. The modeled noise level for existing conditions is 57.0 CNEL at 50  
12 feet and 55.0 CNEL at 80 feet. The with-project noise level is 67.9 CNEL at 50 feet  
13 and 65.9 CNEL at 80 feet, the proposed project-only noise increase over existing  
14 conditions would be 10.9 dB. This is a substantial increase in noise. There would be  
15 a significant impact to this roadway segment since the noise increase is greater than 5  
16 dB.

### 17 **CEQA Impact Determination**

18 Miner Street south of 22<sup>nd</sup> Street is the only street segment that would result in a  
19 significant impact from the proposed project. For all other street segments, no  
20 significant noise impacts are anticipated, and impacts would be less than significant.

### 21 Mitigation Measures

22 No mitigation is available that would reduce noise impacts to live-aboards in the  
23 marina to a less-than-significant level.

### 24 Residual Impacts

25 Impacts would be significant and unavoidable.

### 26 **NEPA Traffic Impacts**

27 To estimate the traffic noise level increases and impacts due to the development of  
28 the proposed Project under NEPA, comparisons have been made between the noise  
29 levels generated by three different proposed project scenarios. Table 3.9-8 shows the  
30 noise levels and changes for some of these scenarios for all roadway segments. The  
31 first scenario is the NEPA baseline, which represents existing traffic plus traffic that  
32 is generated solely by the No-Federal-Action Alternative (Alternative 5). This  
33 scenario is shown in the third column of Table 3.9-8. The second scenario is the  
34 existing-plus-project noise condition, and the noise level for this scenario, which is  
35 shown in the fourth column of Table 3.9-8, is the noise level in CNEL that would  
36 exist today if the proposed Project were already built. This noise level is based upon  
37 the addition of the existing traffic volume and a change in traffic volume attributable  
38 to the proposed Project. The change in traffic volume attributable to the proposed  
39 Project is based on the year 2037 projected traffic volumes and represents the

1 difference between the year 2037 with-project traffic volume and the year 2037  
 2 without-project traffic volume. The third scenario is the year 2037 with-project  
 3 condition, and the noise level for this scenario is the noise level that would exist in  
 4 the year 2037 if the proposed Project were built.

5 A comparison between the NEPA noise level and the existing-plus-project noise level  
 6 yields a change in noise level that represents the NEPA impacts, or in other words,  
 7 the impact over NEPA baseline. This is shown in the fifth column of Table 3.9-8. A  
 8 comparison between the NEPA noise level and the year 2037 with-project noise level  
 9 yields the cumulative increase in noise which is attributable to the nonfederal  
 10 elements as well as growth in the area between now and the year 2037. This is  
 11 shown in the sixth column of Table 3.9-8. Traffic noise level increases greater than  
 12 or equal to 3 dB, but less than 5 dB are shown in bold font, and traffic noise level  
 13 increases greater than or equal to 5 dB are shown in bold underline font.

14 Traffic noise increases for the year 2015 were also examined, and for all roadway  
 15 segments, the traffic volumes for the year 2015 were found to be less than the traffic  
 16 volumes for the year 2037. Therefore, the noise increases due to traffic in the year  
 17 2015 would be less than the noise increases due to traffic in the year 2037.

18 **Table 3.9-8. Traffic Noise Increases Due To the Proposed Project under NEPA**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	61.1	62.3	1.2	2.3
Harbor Boulevard to Centre Street	30	60.7	60.9	0.1	2.2
Centre Street to Pacific Avenue	30	63.1	63.2	0.1	1.6
Pacific Avenue to Grand Avenue	30	63.9	63.9	0.1	1.5
Grand Avenue to Gaffey Street	30	64.7	64.7	0.1	1.4
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.7	58.8	0.0	<b>3.2</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	62.7	62.7	0.0	1.4
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	57.1	57.3	0.2	1.8
Centre Street to Pacific Avenue	30	59.3	59.3	0.0	1.0
Pacific Avenue to Grand Avenue	30	58.4	58.4	0.1	1.0
Grand Avenue to Gaffey Street	30	59.4	59.4	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.0	0.9
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	63.3	63.8	0.5	0.5
Harbor Boulevard to Centre Street	30	63.4	63.5	0.0	0.9
Centre Street to Pacific Avenue	30	59.9	60.0	0.0	1.4
Pacific Avenue to Grand Avenue	30	60.5	60.5	0.0	1.3
Grand Avenue to Gaffey Street	30	62.9	62.9	0.0	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.8	62.9	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.3	65.3	0.0	1.2
Grand Avenue to Gaffey Street	35	66.5	66.6	0.0	1.1
Gaffey Street to Patton Avenue	35	67.9	67.9	0.0	0.9
Patton Avenue to Western Avenue	35	65.2	65.2	0.0	1.0
Western Avenue to Chandeleur Drive	35	65.2	65.2	0.0	0.9
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	59.0	59.0	0.0	0.7
Pacific Avenue to Grand Avenue	25	61.5	61.5	0.0	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.9	61.9	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.7
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	60.0	60.0	0.0	0.8
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	59.0	60.3	1.2	1.8
Miner Street to Via Cabrillo Marina	25	63.8	64.2	0.4	1.2
Via Cabrillo Marina to Mesa Street	25	63.6	64.1	0.4	1.2
Mesa Street to Pacific Avenue	25	63.8	64.2	0.4	1.1
Pacific Avenue to Grand Avenue	25	62.0	62.6	0.6	1.4
Grand Avenue to Gaffey Street	25	62.4	62.9	0.5	1.3
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.9	67.0	0.0	0.9
Patton Avenue to Western Avenue	35	67.7	67.7	0.0	0.9
Western Avenue to Moray Avenue	35	68.1	68.1	0.0	0.9
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.8	72.1	2.3	<b><u>6.4</u></b>
Gaffey Street On Ramp	50	77.8	77.8	0.1	1.0
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.9	61.9	0.0	0.7
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
110 Freeway to Sepulveda Street	35	74.6	74.7	0.1	1.1
Sepulveda Street to 1 <sup>st</sup> Street	35	74.5	74.5	0.1	1.1
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.1	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.1	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.1	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.1	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.2	0.1	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.4	0.1	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.7	0.1	0.9
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	70.0	0.2	0.9
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.4	69.5	0.2	0.9
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.2	69.3	0.2	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.4	68.6	0.2	1.0
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.2	68.4	0.2	1.0
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.3	68.3	0.0	0.8
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.8	67.8	0.0	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	56.1	56.3	0.2	1.0
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.3	63.7	0.5	2.3
Knoll Drive to 110 Freeway	35	65.9	66.2	0.3	2.2
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.7	70.0	1.3	<b>3.9</b>
Swinford Street to Beacon Street	35	71.5	72.5	1.0	1.8
Beacon Street to O'Farrell Street	35	72.1	73.1	1.0	2.3
O'Farrell Street to Santa Cruz Street	35	72.1	73.1	1.0	2.3
Santa Cruz Street to 1 <sup>st</sup> Street	35	71.7	72.8	1.1	2.3

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	71.3	72.6	1.2	2.1
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	71.2	72.4	1.3	2.2
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	71.1	72.4	1.3	2.1
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	70.7	72.1	1.4	2.1
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	70.6	72.0	1.4	2.1
7 <sup>th</sup> Street to Gulch Road	35	68.1	70.2	2.1	2.8
Gulch Road to Crescent Avenue	35	67.6	69.9	2.3	<b>3.0</b>
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.1	69.1	<b>3.0</b>	<b>3.7</b>
South of 22 <sup>nd</sup> Street	35	57.0	67.9	<b><u>10.9</u></b>	<b><u>11.8</u></b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.3	56.3	0.0	1.1
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	67.0	67.0	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.2	66.2	0.0	0.8



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus Project CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	*	48.7	*	*
47 Ramp	35	69.4	69.9	0.5	1.2
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* The proposed Project removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

1

2

**NEPA Impact Determination**

3

Miner Street south of 22<sup>nd</sup> Street is the only street segment that would result in a significant impact. For all other street segments, no significant noise impacts are anticipated, and impacts would be less than significant.

4

5

**Mitigation Measures**

6

No mitigation is available.

7

**Residual Impacts**

8

Impacts would be significant and unavoidable.

9

**Impact NOI-3b: The proposed Project would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

From noise measurements made near the Waterfront Red Car Line, it has been determined that two Waterfront Red Car train operations (one northbound and one southbound) in a 20-minute period generate an  $L_{eq}$  of 64.3 dBA at 25 feet from the railroad tracks. With the proposed Waterfront Red Car route, the closest distance of any affected use to the Waterfront Red Car Line is along Shoshonean Way at the Doubletree Hotel, about 45 feet from the Red Car tracks. The existing daytime ambient  $L_{eq}$  at the hotel is about 54 dBA, and the CNEL is less than 70 dBA. Assuming six Red Car operations per hour pass by the hotel, the  $L_{eq}$  due to the combination of the Waterfront Red Car traffic and the existing ambient noise would be no greater than 62.5 dBA at the nearest affected use. The effect of the operation of the Red Car Line is to increase the  $L_{eq}$  by 8.5 dB above the existing daytime ambient noise levels. This is a significant increase; however, most affected uses surrounding the Waterfront Red Car Line are farther than 45 feet from the railroad track, so the  $L_{eq}$  generated by the Waterfront Red Car Line at the property line of these other affected uses would be much lower than 62.5 dBA, which is the worst case. Using 3 dB and 5 dB as a noise increase threshold, any location that is greater than 124 feet from the Red Car tracks would experience less than a 5 dB daytime increase in  $L_{eq}$  above ambient levels due to the noise generated by the Red Car, and any location that is greater than 269 feet from the tracks would experience less than a 3 dB daytime increase in  $L_{eq}$  during daytime operations. For all distances greater than 90 feet from the Red Car tracks, the daytime  $L_{eq}$  associated with the Waterfront Red Car Line would be less than 60 dBA. For all of the preceding discussion, the noise increases were calculated using the  $L_{eq}$  metric, but the noise increases using the 24-hour CNEL metric is what determines whether or not there is a significant impact. The Red Car Line would not be operating during the nighttime hours (10 p.m. to 7 a.m.), and it may not operate during some or all of the evening hours (7 p.m. to 10 p.m.). The CNEL metric imposes a penalty for noises made during these hours (i.e., a noise that occurs during the evening or nighttime hours will cause a larger increase in CNEL than the same noise that occurs during the daytime hours). In addition, the noise increase due to the Red Car operations would not take place during the whole 24-hour day. Both of these effects decrease the impact of the noises generated by Red Car operations with respect to the CNEL metric as compared to those increase predicted by the  $L_{eq}$  metric. The effect of not having Red Car Line operating during the more heavily weighted evening and nighttime time periods means that the dB increase with respect to the CNEL metric due to Red Car operations would be less than the dB increase with respect to the corresponding  $L_{eq}$  metric. The exact discrepancy between the noise increases as determined by each of these two metrics ( $L_{eq}$  and CNEL) is determined by the ambient evening and nighttime  $L_{eq}$  that exists at the impacted location. Depending upon the evening and nighttime ambient noise levels, the dB increase with respect to the CNEL metric could be significantly lower than the dB increase that is determined by the daytime  $L_{eq}$  metric. If the  $L_{eq}$  at the nearest affected use were as unrealistically low as 48 dBA for the entire evening and

1 nighttime time periods, the dB increase with respect to the CNEL metric would be no  
2 more than 4.7 dB as opposed to the 8.5 dB increase in the daytime  $L_e$  metric.  
3 Existing higher evening and nighttime noise levels would decrease the CNEL noise  
4 impact further and result in a lower increase in CNEL than 4.7 dB. Long-term (24+  
5 hour) noise measurements that were taken at other sites have an evening and  
6 nighttime  $L_{eq}$  that is higher 48 dBA. Assuming that the percentage mix of daytime,  
7 evening and nighttime noise near the Red Car Line is the same as that measured at  
8 one of the two long-term sites, the noise increase at the nearest affected use (i.e. 45  
9 feet from the Red Car tracks) due to the operation of the Red Car Line would cause a  
10 noise increase of only 3.3 dB with respect to the CNEL metric. In any case, the noise  
11 increase with respect to the CNEL metric should be no more than 4.7 dB. Because  
12 the projected noise level at the nearest affected use is less than 70 CNEL (normally  
13 unacceptable per the compatibility guidelines), the threshold of significance is 5 dB.  
14 Even under the worst-case scenario the increase in CNEL due to the Red Car Line  
15 operations would be 4.7 dB. Since this is under 5 dB, there would not be any  
16 projected significant impacts due to the Waterfront Red Car operations.

#### 17 **CEQA Impact Determination**

18 Impacts would be less than significant.

#### 19 Mitigation Measures

20 No mitigation is required.

#### 21 Residual Impacts

22 Impacts would be less than significant.

#### 23 **NEPA Impact Determination**

24 Impacts would be less than significant.

#### 25 Mitigation Measures

26 No mitigation is required.

#### 27 Residual Impacts

28 Impacts would be less than significant.

1                   **Impact NOI-3c: The proposed Project would not cause noise**  
2                   **from cruise ship operations measured at the property line of**  
3                   **affected uses to increase by 3 dBA in CNEL, to or within the**  
4                   **“normally unacceptable” or “clearly unacceptable” category,**  
5                   **or any 5 dBA or greater noise increase.**

6                   From the long-term noise measurements made at the Terminal 93 building, it was  
7                   determined that the  $L_{eq}$  at a distance of 180 feet from a large cruise ship is about  
8                   64.3 dBA. The proposed Project would bring cruise ships into the Outer Harbor,  
9                   where they were not before. The closest affected use to the Outer Harbor is live-  
10                  boards in the Cabrillo Marina. The Cabrillo Marina has an existing ambient  $L_{eq}$  of  
11                  53.9 dBA. The distance from the live-boards to Berth 45 in the Outer Harbor is 660  
12                  feet. The  $L_{eq}$  at the live-boards due to a cruise ship that is docked at Berth 45 would  
13                  be 55.8 dBA. The combined (ambient noise plus cruise ship)  $L_{eq}$  at the live-boards  
14                  would then be 58.0 dBA, and the increase in noise above ambient levels at the live-  
15                  boards would be 4.1 dB. Because of its movement across the water, all other cruise  
16                  ship traffic would produce only transitory noise impacts that would be less than what  
17                  is experienced by live-boards due to a cruise ship that is docked at the Outer Harbor.  
18                  There would be no significant noise impacts due to cruise ship operations as a result  
19                  of the proposed Project. It should be noted that this analysis is based on an hour  
20                  when the cruise ship is most active, typically during the loading or unloading of  
21                  passengers. The noise levels and impacts in terms of the CNEL scale would be much  
22                  lower since cruise ships are typically not active in port during the nighttime hours.

### 23                  **CEQA Impact Determination**

24                  Impacts would be less than significant.

#### 25                  Mitigation Measures

26                  No mitigation is required.

#### 27                  Residual Impacts

28                  Impacts would be less than significant.

### 29                  **NEPA Impact Determination**

30                  Impacts would be less than significant.

#### 31                  Mitigation Measures

32                  No mitigation is required.

#### 33                  Residual Impacts

34                  Impacts would be less than significant.

### 3.9.4.3.2 Alternative 1—Alternative Development Scenario 1

#### Impact NOI-1: Alternative 1 would exceed construction noise standards.

All construction noise impacts for Alternative 1 would be the same as the proposed Project except the following:

**Outer Harbor Berths and Terminal Facilities:** The Outer Harbor Berths and Terminal Facilities for Alternative 1 would reduce the number of cruise ship berths that would be built in the Outer Harbor compared to the proposed Project; however, the type of construction and noise levels for this alternative would be the same as for the proposed Project. See conclusions for the Outer Harbor Berths construction under the proposed Project. Construction noise would exceed the significance threshold.

**Inner Harbor Parking:** The size of the Inner Harbor parking structure would be reduced in scale; however, the type of construction and noise levels for this alternative would be the same as for the proposed Project. Construction noise would exceed the significance threshold.

**Outer Harbor Parking:** The size of the Outer Harbor surface parking would be reduced from 400 surface parking spaces to 200 surface parking spaces; however, the type of construction and noise levels for this alternative would be the same as for the proposed Project. Construction noise would exceed the significance threshold.

**Waterfront Red Car Museum and Maintenance Facility:** Both the Waterfront Red Car Museum and Maintenance Facility would be located at Warehouse No. 1 at City Dock No. 1. Live-aboards in the Cabrillo Marina are the closest sensitive receiver to construction activity, about 1,080 feet from Warehouse No. 1. Site ST-13, which has an  $L_{eq}$  of 53.9 dBA, is the nearest measurement site. The  $L_{eq}$  at the location of the live-aboards due to construction is projected to be 60 dBA. With an increase of more than 6 dB at the property line of the nearest sensitive receiver, construction noise would exceed the significance threshold.

**Harbor Boulevard Lane Capacity:** Under this alternative, the construction due to the reduction in lane capacity along Harbor Boulevard would produce an  $L_{eq}$  of 89 dBA at the nearest residence, which is 50 feet away. Construction noise would exceed the significance threshold.

#### CEQA Impact Determination

Impacts resulting from construction activities would be significant.

#### Mitigation Measures

Implement Mitigation Measure MM NOI-1.

1                    **Residual Impacts**

2                    As discussed under the proposed Project, Mitigation Measure MM NOI-1 would  
3                    reduce impacts; however, impacts would remain significant. Impacts would be  
4                    significant and unavoidable.

5                    **NEPA Impact Determination**

6                    Impacts would be significant, but to a lesser extent than analyzed under CEQA (i.e.,  
7                    many of the upland locations are not subject to federal control and responsibility or  
8                    NEPA). The following proposed project elements would make a significant impact  
9                    under NEPA:

- 10                  ■ North Harbor;
- 11                  ■ Downtown Harbor;
- 12                  ■ 7<sup>th</sup> Street Harbor;
- 13                  ■ 7<sup>th</sup> Street Pier;
- 14                  ■ Waterfront Promenade:
  - 15                      □ Ports O'Call,
  - 16                      □ City Dock No. 1,
  - 17                      □ Outer Harbor,
  - 18                      □ Cabrillo Beach, and
  - 19                      □ Salt Marsh;
- 20                  ■ Cruise Ship Facilities:
  - 21                      □ Outer Harbor Berths and Terminal Facilities;
- 22                  ■ Tugboats:
  - 23                      □ Crowley Tug Building;
- 24                  ■ Los Angeles Maritime Institute; and
- 25                  ■ New fueling facility at Berth 240.

26                  **Mitigation Measures**

27                  Implement Mitigation Measure MM NOI-1.

28                  **Residual Impacts**

29                  Impacts would be significant and unavoidable.

1                   **Impact NOI-2: Construction activities for Alternative 1 would**  
2                   **not exceed the ambient noise level by 5 dBA at a noise**  
3                   **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
4                   **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
5                   **on Saturday, or at any time on Sunday.**

6                   No construction activities are planned to occur between the hours of 9:00 p.m. and  
7                   7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
8                   at any time on Sunday.

#### 9                   **CEQA Impact Determination**

10                  Impacts would be less than significant.

#### 11                  Mitigation Measures

12                  No mitigation is required.

#### 13                  Residual Impacts

14                  Impacts would be less than significant.

#### 15                  **NEPA Impact Determination**

16                  Impacts would be less than significant.

#### 17                  Mitigation Measures

18                  No mitigation is required.

#### 19                  Residual Impacts

20                  Impacts would be less than significant.

21                   **Impact NOI-3a: Alternative 1 would cause noise from motor**  
22                   **vehicle traffic measured at the property line of affected uses**  
23                   **to increase by 3 dBA in CNEL, to or within the “normally**  
24                   **unacceptable” or “clearly unacceptable” category, or any 5**  
25                   **dBA or greater noise increase.**

#### 26                  **CEQA Traffic Impacts**

27                  Methods for calculating traffic noise impacts for Alternative 1 are the same as those  
28                  described under the proposed Project.

There are five roadway segments, one less than the proposed Project, that have a 3 dB or greater noise increase due to Alternative 1. Since a 3 dB increase in noise is the minimum increase that could trigger a significant impact, any increase under 3 dB would not result in an increase. It should be kept in mind that a 3 dB increase would only result in a significant impact if the existing CNEL is over 70 dBA. Under the proposed Project, Miner Street from Crescent Avenue to 22<sup>nd</sup> Street would be significantly impacted, but this roadway segment would not be significantly impacted under Alternative 1 because the traffic volume increase for this roadway segment is not sufficient to make a significant impact. The most likely explanation for the reason why this road segment is not significantly impacted under Alternative 1 is because the northbound Harbor Boulevard traffic cul-de-sacs at 13<sup>th</sup> Street, which translates into less traffic and less noise along Miner Street from Crescent Avenue to 22<sup>nd</sup> Street.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-9. Traffic Noise Increases Due To Alternative 1**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	61.8	<b>8.9</b>	<b>10.1</b>
Harbor Boulevard to Centre Street	30	56.8	60.4	<b>3.6</b>	<b>5.9</b>
Centre Street to Pacific Avenue	30	61.4	63.0	1.6	<b>3.1</b>
Pacific Avenue to Grand Avenue	30	62.5	63.7	1.2	2.7
Grand Avenue to Gaffey Street	30	63.5	64.5	1.0	2.4
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.7	0.4	<b>3.7</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-10.3
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.4
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-11.1
Harbor Boulevard to Centre Street	30	58.2	57.3	-0.9	0.6
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.4	0.1	1.0
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.1	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	67.9	<b>15.3</b>	<b>15.3</b>
Harbor Boulevard to Centre Street	30	62.6	63.3	0.7	1.6
Centre Street to Pacific Avenue	30	59.8	59.9	0.1	1.5
Pacific Avenue to Grand Avenue	30	60.4	60.5	0.1	1.4
Grand Avenue to Gaffey Street	30	62.8	62.8	0.0	1.2
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.8	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.3
Grand Avenue to Gaffey Street	35	66.5	66.6	0.1	1.1
Gaffey Street to Patton Avenue	35	67.8	67.9	0.1	1.0
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1
Western Avenue to Chandleur Drive	35	65.1	65.2	0.1	1.0
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	59.0	0.3	1.0
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.9	0.1	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.1	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	62.2	<b>4.9</b>	<b><u>5.2</u></b>
Miner Street to Via Cabrillo Marina	25	63.4	64.1	0.7	1.4
Via Cabrillo Marina to Mesa Street	25	63.2	63.9	0.7	1.4
Mesa Street to Pacific Avenue	25	63.4	64.0	0.6	1.3
Pacific Avenue to Grand Avenue	25	61.5	62.3	0.8	1.5
Grand Avenue to Gaffey Street	25	62.0	62.6	0.6	1.4
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	66.9	0.1	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	1.0
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	1.0
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	70.8	1.2	<b><u>6.2</u></b>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.1
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.8	0.1	0.9
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.7	0.2	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.1	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.1	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.1	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.1	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.1	0.1	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.3	0.1	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.6	0.1	0.9
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.9	0.1	0.9
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.4	0.1	0.9
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.2	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.5	0.2	1.0
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.3	0.2	1.0
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	50.3	-5.6	-3.2
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.5	0.4	2.4
Knoll Drive to 110 Freeway	35	65.8	66.0	0.2	2.2
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	69.2	0.6	<b>3.6</b>
Swinford Street to Beacon Street	35	70.9	72.0	1.1	2.0
Beacon Street to O'Farrell Street	35	71.4	72.6	1.2	2.6
O'Farrell Street to Santa Cruz Street	35	71.3	72.5	1.2	2.6
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	72.2	1.4	2.7
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	72.0	1.5	2.5
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	71.8	1.5	2.6

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	71.8	1.6	2.5
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	71.4	1.8	2.6
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	71.3	2.1	2.8
7 <sup>th</sup> Street to Gulch Road	35	67.7	60.9	-6.8	-2.8
Gulch Road to Crescent Avenue	35	67.5	61.0	-6.5	-2.6
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	67.0	1.0	2.1
South of 22 <sup>nd</sup> Street	35	57.0	65.3	<b>8.3</b>	<b>9.7</b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.2	56.3	0.1	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	67.0	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.2	0.1	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 1</i>	<i>Cumulative Increase Over 2007</i>
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	*	*	<b><u>7.6</u></b>
47 Ramp	35	68.9	69.6	0.7	1.4
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 1 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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**1<sup>st</sup> Street**

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**East of Harbor Boulevard**

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No residences exist east of Harbor Boulevard. Currently, the traffic traveling along this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup> Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase in noise of 8.9 dB over existing conditions, the projected noise due to Alternative 1 would be 61.8 CNEL. Although this roadway is projected to have an apparent increase of 8.9 dB as a result of Alternative 1 according to the model, this increase is misleading because the model does not take into account noise generated by adjacent roadways. See the discussion of this roadway segment under the Proposed Project for a more detailed explanation of this effect. When the noise contribution from Harbor Boulevard is accounted for, the existing noise level along 1<sup>st</sup> Street is much higher than the modeled noise level due to Alternative 1. No significant noise impacts would occur along this roadway segment.

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**Harbor Boulevard to Centre Street**

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This section of the roadway is almost completely surrounded by residences on both sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and 58.6 CNEL at the property line of the residences. The projected with-project noise

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1 level would be 60.4 CNEL at 50 feet and 62.2 CNEL at the property line of the  
2 nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise  
3 increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in  
4 noise is 3.6 dB, and the with-Alternative 1 noise is less than 70 dBA. This roadway  
5 segment would not experience a significant noise impact since the noise at the  
6 property line does not exceed 70 CNEL and the total increase in CNEL is less than 5  
7 dB.

## 8 **7<sup>th</sup> Street**

### 9 Sampson Way to Harbor Boulevard

10 This is the roadway segment that would accept northbound traffic exiting from  
11 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
12 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
13 this section of the roadway. The nearest affected use is a government office building  
14 (i.e., City Hall) at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet  
15 beyond the end point of the roadway segment. Since this office building is located  
16 on Harbor Boulevard, the current noise level at the property line of the office  
17 building is due mainly to traffic traveling along Harbor Boulevard. The current  
18 traffic along Harbor Boulevard from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2  
19 dBA. The projected with-Alternative 1 noise level along 7<sup>th</sup> Street is 67.9 CNEL at  
20 50 feet, and at 110 feet this noise would be 64.5 CNEL. The with-Alternative 1 noise  
21 impact from 7<sup>th</sup> Street between Sampson Way and Harbor Boulevard would produce  
22 less noise at the property line of the nearest affected use (i.e., City Hall) than what  
23 currently exists today. Under the with-project condition, fewer vehicles would travel  
24 down 7<sup>th</sup> Street, and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This  
25 roadway segment would not experience a significant increase in noise, and no  
26 significant impact is projected.

## 27 **22<sup>nd</sup> Street**

### 28 Signal Place to Miner Street

29 There is a warehouse along the roadway segment at 50 feet from the roadway. The  
30 modeled noise level for existing conditions is 57.3 CNEL at 50 feet from the  
31 centerline of the roadway. With a Alternative 1-only noise increase over existing  
32 conditions of 4.9 dB, the with-Alternative 1 noise level is modeled to be 62.2 CNEL  
33 at 50 feet. No residences are located along this section of the roadway, and the  
34 nearest residence is over 1,200 feet away. Because the with-Alternative 1 noise  
35 levels are well below 70 CNEL and because the noise increase is 4.9 dB, there would  
36 not be any significant noise impact along this roadway.

## 37 **Miner Street**

### 38 South of 22<sup>nd</sup> Street

39 This roadway leads into and out of the Outer Harbor. Adjacent to this roadway  
40 segment is the Cabrillo Marina. The closest affected uses to this roadway segment

are live-aboards in the marina. The distance from the roadway to the live-aboards is at least 80 feet. The modeled noise level for existing conditions is 57.0 CNEL at 50 feet and 55.0 CNEL at 80 feet. The with-Alternative 1 noise level is 65.3 CNEL at 50 feet and 63.3 CNEL at 80 feet. The Alternative 1-only noise increase over existing conditions would be 8.3 dB. This is a substantial increase in noise. There would be a significant impact to this roadway segment since the noise increase is greater than 5 dB.

### CEQA Impact Determination

Miner Street south of 22<sup>nd</sup> Street is the only street segment that would result in a significant impact from the alternative. For all other street segments, no significant noise impacts are anticipated, and impacts would be less than significant.

### Mitigation Measures

No mitigation is available.

### Residual Impacts

There would be a significant and unavoidable impact.

### NEPA Traffic Impacts

Methods for calculating NEPA traffic noise impacts for Alternative 1 are the same as those described under the proposed Project.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-10.** Traffic Noise Increases Due To Alternative 1 under NEPA

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	61.1	61.8	0.6	1.9
Harbor Boulevard to Centre Street	30	60.7	60.4	-0.3	2.0
Centre Street to Pacific Avenue	30	63.1	63.0	-0.2	1.4
Pacific Avenue to Grand Avenue	30	63.9	63.7	-0.1	1.3
Grand Avenue to Gaffey Street	30	64.7	64.5	-0.1	1.2
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.7	58.7	0.0	<b>3.2</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	62.7	62.7	0.0	1.4
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	57.1	57.3	0.2	1.8
Centre Street to Pacific Avenue	30	59.3	59.3	0.0	1.0
Pacific Avenue to Grand Avenue	30	58.4	58.4	0.0	1.0
Grand Avenue to Gaffey Street	30	59.4	59.4	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.0	0.9
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	63.3	63.8	0.5	0.5
Harbor Boulevard to Centre Street	30	63.4	63.3	-0.1	0.7
Centre Street to Pacific Avenue	30	59.9	59.9	0.0	1.4
Pacific Avenue to Grand Avenue	30	60.5	60.5	0.0	1.2
Grand Avenue to Gaffey Street	30	62.9	62.8	0.0	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.8	62.8	0.0	1.5
Pacific Avenue to Grand Avenue	35	65.3	65.3	0.0	1.2
Grand Avenue to Gaffey Street	35	66.5	66.6	0.0	1.1
Gaffey Street to Patton Avenue	35	67.9	67.9	0.0	0.9
Patton Avenue to Western Avenue	35	65.2	65.2	0.0	1.0



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
Western Avenue to Chandeaur Drive	35	65.2	65.2	0.0	0.9
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	59.0	59.0	0.0	0.7
Pacific Avenue to Grand Avenue	25	61.5	61.5	0.0	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.9	61.9	0.0	0.7
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.7
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	60.0	60.0	0.0	0.8
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.0	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.0	0.8
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	59.0	62.2	<b>3.2</b>	<b>3.5</b>
Miner Street to Via Cabrillo Marina	25	63.8	64.1	0.3	1.0
Via Cabrillo Marina to Mesa Street	25	63.6	63.9	0.2	1.0
Mesa Street to Pacific Avenue	25	63.8	64.0	0.2	1.0
Pacific Avenue to Grand Avenue	25	62.0	62.3	0.3	1.1
Grand Avenue to Gaffey Street	25	62.4	62.6	0.3	1.0
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.9	66.9	0.0	0.9
Patton Avenue to Western Avenue	35	67.7	67.7	0.0	0.8
Western Avenue to Moray Avenue	35	68.1	68.1	0.0	0.9
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.8	70.8	0.9	<b><u>6.0</u></b>

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
Gaffey Street On Ramp	50	77.8	77.8	0.0	1.0
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.9	61.8	0.0	0.7
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.6	74.7	0.0	1.0
Sepulveda Street to 1 <sup>st</sup> Street	35	74.5	74.5	0.0	1.0
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.0	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.0	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.0	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.0	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.0	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.1	0.1	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.3	0.1	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.6	0.1	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.9	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.4	69.4	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.2	69.2	0.1	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.4	68.5	0.1	0.9
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.2	68.3	0.1	0.9
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.3	68.3	0.0	0.8
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.8	67.8	0.0	0.8
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	56.1	50.3	-5.8	-3.4
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.3	63.5	0.2	2.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
Knoll Drive to 110 Freeway	35	65.9	66.0	0.1	2.1
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.7	69.2	0.5	<b>3.5</b>
Swinford Street to Beacon Street	35	71.5	72.0	0.4	1.3
Beacon Street to O'Farrell Street	35	72.1	72.6	0.5	1.9
O'Farrell Street to Santa Cruz Street	35	72.1	72.5	0.5	1.9
Santa Cruz Street to 1 <sup>st</sup> Street	35	71.7	72.2	0.5	1.8
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	71.3	72.0	0.6	1.7
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	71.2	71.8	0.7	1.7
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	71.1	71.8	0.7	1.6
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	70.7	71.4	0.7	1.5
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	70.6	71.3	0.7	1.4
7 <sup>th</sup> Street to Gulch Road	35	68.1	60.9	-7.1	-3.2
Gulch Road to Crescent Avenue	35	67.6	61.0	-6.6	-2.8
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.1	67.0	0.9	2.0
South of 22 <sup>nd</sup> Street	35	57.0	65.3	<b><u>8.3</u></b>	<b><u>9.7</u></b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.3	56.3	0.0	1.1
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.0	1.1
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 1 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To Project</i>	<i>NEPA Cumulative Increase Over 2007</i>
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	67.0	67.0	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.2	66.2	0.0	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	*	*	*	*
47 Ramp	35	69.4	69.6	0.2	0.9
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 1 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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### NEPA Impact Determination

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Miner Street south of 22<sup>nd</sup> Street is the only street segment that would result in a significant impact from the alternative. For all other street segments, no significant noise impacts are anticipated, and impacts would be less than significant.

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### Mitigation Measures

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No mitigation is available.

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1                    Residual Impacts

2                    Impacts would be significant and unavoidable.

3                    **Impact NOI-3b: Alternative 1 would not cause noise from**  
4                    **railroad operations measured at the property line of affected**  
5                    **uses to increase by 3 dBA in CNEL, to or within the**  
6                    **“normally unacceptable” or “clearly unacceptable” category,**  
7                    **or any 5 dBA or greater noise increase.**

8                    The only railroad operation planned under Alternative 1 is the Waterfront Red Car  
9                    Line. Under Alternative 1, the Waterfront Red Car Line would be extended down to  
10                    Cabrillo Beach along Shoshonean Way, the same as described under the proposed  
11                    Project. The largest noise impact caused by the Waterfront Red Car Line under  
12                    Alternative 1 is along Shoshonean Way. Because the noise impact would not be  
13                    significant under the proposed Project, it would not be significant under Alternative  
14                    1.

15                    **CEQA Impact Determination**

16                    Impacts would be less than significant.

17                    Mitigation Measures

18                    No mitigation is required.

19                    Residual Impacts

20                    Impacts would be less than significant.

21                    **NEPA Impact Determination**

22                    Impacts would be less than significant.

23                    Mitigation Measures

24                    No mitigation is required.

25                    Residual Impacts

26                    Impacts would be less than significant.

1                   **Impact NOI-3c: Alternative 1 would not cause noise from**  
2                   **cruise ship operations measured at the property line of**  
3                   **affected uses to increase by 3 dBA in CNEL, to or within the**  
4                   **“normally unacceptable” or “clearly unacceptable” category,**  
5                   **or any 5 dBA or greater noise increase.**

6                   Because Alternative 1 would include the construction of a new berth at Berths 45–47,  
7                   the noise levels at the closest affected use receiver due to cruise ship operations at the  
8                   new Outer Harbor Berth would be the same as for the proposed Project. The noise  
9                   impacts due to cruise ship operations under Alternative 1 would be less than  
10                  significant.

#### 11                  **CEQA Impact Determination**

12                  Impacts would be less than significant.

#### 13                  Mitigation Measures

14                  No mitigation is required.

#### 15                  Residual Impacts

16                  Impacts would be less than significant.

#### 17                  **NEPA Impact Determination**

18                  Impacts would be less than significant.

#### 19                  Mitigation Measures

20                  No mitigation is required.

#### 21                  Residual Impacts

22                  Impacts would be less than significant.

### 23   **3.9.4.3.3           Alternative 2—Alternative Development Scenario 2**

24                  **Impact NOI-1: Alternative 2 would exceed construction**  
25                  **noise standards.**

26                  All construction noise impacts for Alternative 2 would be the same as the proposed  
27                  Project except the following:

28                  **Inner Harbor Parking:** The size of the Inner Harbor parking structure would be  
29                  smaller in scale (i.e., the parking structure would provide only 2,900 spaces for

1 Alternative 2 instead of 4,000 spaces that would be provided by the proposed  
2 Project); however, the type of construction and noise levels for this alternative would  
3 be the same as for the proposed Project. Construction noise would exceed the  
4 significance threshold.

5 **Outer Harbor Parking:** The Outer Harbor parking would include a 2-level parking  
6 structure along with surface parking areas. Since building a parking structure will  
7 require heavy construction equipment, the type of construction and noise levels  
8 would be as high as for the proposed Project. Construction noise would exceed the  
9 significance threshold.

10 **Harbor Boulevard Lane Capacity:** Under this alternative, the construction due to  
11 the reduction in lane capacity along Harbor Boulevard would produce an  $L_{eq}$  of  
12 89 dBA at the nearest residence, which is 30 feet away. Construction noise would  
13 exceed the significance threshold.

#### 14 **CEQA Impact Determination**

15 Impacts resulting from construction activities would be significant.

#### 16 Mitigation Measures

17 Implement Mitigation Measure MM NOI-1.

#### 18 Residual Impacts

19 As discussed under the proposed Project, Mitigation MM NOI-1 would reduce  
20 impacts; however, impacts would remain significant. Impacts would be significant  
21 and unavoidable.

#### 22 **NEPA Impact Determination**

23 Impacts would be significant, but to a lesser extent than analyzed under CEQA (i.e.,  
24 many of the upland locations are not subject to federal control and responsibility or  
25 NEPA). The following proposed project elements would make a significant impact  
26 under NEPA.

- 27 ■ North Harbor;
- 28 ■ Downtown Harbor;
- 29 ■ 7<sup>th</sup> Street Harbor;
- 30 ■ 7<sup>th</sup> Street Pier;
- 31 ■ Waterfront Promenade:
  - 32 □ Ports O'Call,
  - 33 □ City Dock No. 1,
  - 34 □ Outer Harbor,

- 1                   □ Cabrillo Beach, and
- 2                   □ Salt Marsh;
- 3                   ■ Cruise Ship Facilities:
- 4                   □ Outer Harbor Berths and Terminal Facilities;
- 5                   ■ Tugboats:
- 6                   □ Crowley Tug Building;
- 7                   ■ Los Angeles Maritime Institute; and
- 8                   ■ New fueling facility at Berth 240.

#### 9                   Mitigation Measures

10                  Implement Mitigation Measure MM NOI-1.

#### 11                 Residual Impacts

12                  Impacts would be significant and unavoidable.

13                  **Impact NOI-2: Construction activities for Alternative 2 would**  
14                  **not exceed the ambient noise level by 5 dBA at a noise**  
15                  **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
16                  **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
17                  **on Saturday, or at any time on Sunday.**

18                  No construction activities are planned to occur between the hours of 9:00 p.m. and  
19                  7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
20                  at any time on Sunday.

#### 21                 **CEQA Impact Determination**

22                  Impacts would be less than significant.

#### 23                 Mitigation Measures

24                  No mitigation is required.

#### 25                 Residual Impacts

26                  Impacts would be less than significant.

#### 27                 **NEPA Impact Determination**

28                  Impacts would be less than significant.



Mitigation Measures

No mitigation is required.

Residual Impacts

Impacts would be less than significant.

**Impact NOI-3a: Alternative 2 would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

**CEQA Traffic Impacts**

Methods for calculating traffic noise impacts for Alternative 2 are the same as those described under the proposed Project.

There are six roadway segments that have a 3 dB or greater noise increase due to Alternative 2. This is the same number of potentially significantly impacted roadway segments as the proposed Project. Since a 3 dB increase in noise is the minimum increase that could trigger a significant impact, any increase under 3 dB would not result in an increase. It should be kept in mind that a 3 dB increase would only result in a significant impact if the existing CNEL is over 70 dBA.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-11. Traffic Noise Increases Due To Alternative 2**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	60.2	<b>7.3</b>	<b>9.0</b>
Harbor Boulevard to Centre Street	30	56.8	60.0	<b>3.2</b>	<b>5.6</b>
Centre Street to Pacific Avenue	30	61.4	62.7	1.3	<b>3.0</b>
Pacific Avenue to Grand Avenue	30	62.5	63.5	1.0	2.5
Grand Avenue to Gaffey Street	30	63.5	64.4	0.9	2.3
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.8	0.5	<b>3.7</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-8.6
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.4
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-12.2
Harbor Boulevard to Centre Street	30	58.2	57.2	-1.0	0.6
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.4	0.1	1.0
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.1	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	68.8	<b><u>16.2</u></b>	<b><u>16.2</u></b>
Harbor Boulevard to Centre Street	30	62.6	63.3	0.7	1.6
Centre Street to Pacific Avenue	30	59.8	59.9	0.1	1.5
Pacific Avenue to Grand Avenue	30	60.4	60.5	0.1	1.4
Grand Avenue to Gaffey Street	30	62.8	62.8	0.0	1.2
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.9	0.2	1.7
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.3
Grand Avenue to Gaffey Street	35	66.5	66.6	0.1	1.2
Gaffey Street to Patton Avenue	35	67.8	67.9	0.1	1.0
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
Western Avenue to Chandeleur Drive	35	65.1	65.2	0.1	1.0
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	59.0	0.3	1.0
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.9	0.1	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.1	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	64.0	<u>6.7</u>	<u>7.0</u>
Miner Street to Via Cabrillo Marina	25	63.4	64.4	1.0	1.7
Via Cabrillo Marina to Mesa Street	25	63.2	64.2	1.0	1.7
Mesa Street to Pacific Avenue	25	63.4	64.3	0.9	1.6
Pacific Avenue to Grand Avenue	25	61.5	62.8	1.3	2.0
Grand Avenue to Gaffey Street	25	62.0	63.1	1.1	1.8
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	67.0	0.2	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	1.0
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	1.0
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	72.2	2.6	<u>6.7</u>

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.2
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.8	0.1	0.9
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.7	0.2	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.1
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.4	0.2	1.0
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.2	0.2	1.0
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.8	0.2	1.0
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.7	0.2	1.0
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.2	0.2	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.4	0.2	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.7	0.2	1.0
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	70.1	0.3	1.0
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.6	0.3	1.0
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.4	0.3	1.0
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.7	0.4	1.1
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.5	0.4	1.1
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	1.0
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	51.0	-4.9	-2.8
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.7	0.6	2.5

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
Knoll Drive to 110 Freeway	35	65.8	66.2	0.4	2.3
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	70.1	1.5	<b>4.0</b>
Swinford Street to Beacon Street	35	70.9	72.7	1.8	2.6
Beacon Street to O'Farrell Street	35	71.4	73.3	1.9	<b>3.1</b>
O'Farrell Street to Santa Cruz Street	35	71.3	73.3	2.0	<b>3.2</b>
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	73.0	2.2	<b>3.3</b>
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	72.8	2.3	<b>3.1</b>
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	72.7	2.4	<b>3.2</b>
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	72.6	2.4	<b>3.2</b>
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	72.3	2.7	<b>3.4</b>
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	72.2	<b>3.0</b>	<b>3.6</b>
7 <sup>th</sup> Street to Gulch Road	35	67.7	63.2	-4.5	-1.8
Gulch Road to Crescent Avenue	35	67.5	63.2	-4.3	-1.6
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	68.3	2.3	<b>3.2</b>
South of 22 <sup>nd</sup> Street	35	57.0	68.8	<b>11.8</b>	<b>12.5</b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.2	56.3	0.1	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 2</i>	<i>Cumulative Increase Over 2007</i>
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	67.0	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.2	0.1	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	*	*	<b><u>7.1</u></b>
47 Ramp	35	68.9	69.9	1.0	1.7
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 2 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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### **1<sup>st</sup> Street**

#### **East of Harbor Boulevard**

No residences exist east of Harbor Boulevard. Currently, the traffic traveling along this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup> Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase in noise of 7.3 dB over existing conditions, the projected noise due to the Alternative 2 would be 60.2 CNEL. Although this roadway is projected to have an apparent increase of 7.3 dB as a result of Alternative 2 according to the model, this increase is

1 misleading because the model does not take into account noise generated by adjacent  
2 roadways. See the discussion of this roadway segment under the Proposed Project for  
3 a more detailed explanation of this effect. When the noise contribution from Harbor  
4 Boulevard is accounted for, the existing noise level along 1<sup>st</sup> Street is much higher  
5 than the modeled noise level due to Alternative 2. No significant noise impacts would  
6 occur along this roadway segment.

#### 7 Harbor Boulevard to Centre Street

8 This section of the roadway is almost completely surrounded by residences on both  
9 sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the  
10 roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and  
11 58.6 CNEL at the property line of the residences. The projected with-project noise  
12 level would be 60.0 CNEL at 50 feet and 61.8 CNEL at the property line of the  
13 nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise  
14 increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in  
15 noise is 3.2 dB, and the with-Alternative 2 noise is less than 70 dBA. This roadway  
16 segment would not experience a significant noise impact since the noise at the  
17 property line does not exceed 70 CNEL.

#### 18 **7<sup>th</sup> Street**

#### 19 Sampson Way to Harbor Boulevard

20 This is the roadway segment that would accept northbound traffic exiting from  
21 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
22 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
23 this section of the roadway. The nearest affected use is a government office building  
24 at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet beyond the end point  
25 of the roadway segment. Since this office building is located on Harbor Boulevard,  
26 the current noise level at the property line of the office building is due mainly to  
27 traffic traveling along Harbor Boulevard. The current traffic along Harbor Boulevard  
28 from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2 dBA. The projected with-  
29 Alternative 2 noise level along 7<sup>th</sup> Street is 68.8 CNEL at 50 feet, and at 110 feet this  
30 noise would be 65.4 CNEL. The with-Alternative 2 noise impact from 7<sup>th</sup> Street  
31 between Sampson Way and Harbor Boulevard would produce less noise at the  
32 property line of the nearest affected use (i.e., City Hall) than what currently exists  
33 today. Under the with-project condition, fewer vehicles would travel down 7<sup>th</sup> Street,  
34 and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This roadway segment  
35 would not experience a significant increase in noise, and no significant impact is  
36 projected.

#### 37 **22<sup>nd</sup> Street**

#### 38 Signal Place to Miner Street

39 There is a warehouse along the roadway segment at 50 feet from the roadway. The  
40 modeled noise level for existing conditions is 57.3 CNEL at 50 feet from the  
41 centerline of the roadway. With an Alternative 2-only noise increase over existing

1 conditions of 6.7 dB, the with-Alternative 2 noise level is modeled to be 64.0 CNEL  
2 at 50 feet. No residences are located along this section of the roadway, and the  
3 nearest residence is over 1,200 feet away. The with-Alternative 2 noise levels are  
4 well below 70 CNEL, but since the noise increase is 6.7 dB, there would be a  
5 significant noise impact along this roadway.

## 6 **Harbor Boulevard**

### 7 6<sup>th</sup> Street to 7<sup>th</sup> Street

8 No residences are located on Harbor Boulevard along this section of the roadway.  
9 The nearest affected use is the government building at the corner of 7<sup>th</sup> Street and  
10 Harbor Boulevard, about 50 feet from the centerline of Harbor Boulevard. The  
11 existing noise level at the property line of the government building is 69.2 CNEL at  
12 50 feet. The projected with-Alternative 2 noise level 72.2 CNEL at 50 feet and 68.4  
13 CNEL at 120 feet. Alternative 2 would increase the noise along this roadway  
14 segment by 3.0 and cause the CNEL to exceed 70 CNEL. There would be a  
15 significant noise impacts along this roadway segment.

## 16 **Miner Street**

### 17 South of 22<sup>nd</sup> Street

18 This roadway leads into and out of the Outer Harbor. Adjacent to this roadway  
19 segment is the Cabrillo Marina. The closest affected uses to this roadway segment  
20 are live-aboards in the marina. The distance from the roadway to the live-aboards is  
21 at least 80 feet. The modeled noise level for existing conditions is 57.0 CNEL at 50  
22 feet and 55.0 CNEL at 80 feet. The with-Alternative 2 noise level 68.8 CNEL at 50  
23 feet and 66.8 CNEL at 80 feet The Alternative 2-only noise increase over existing  
24 conditions would be 11.8 dB. This is a substantial increase in noise. There would be  
25 a significant impact to this roadway segment because the noise increase is greater  
26 than 5 dB.

## 27 **CEQA Impact Determination**

28 Three roadway segments would experience significant impacts: 22<sup>nd</sup> Street, Signal to  
29 Miner Street; Harbor Boulevard, 6<sup>th</sup> Street to 7<sup>th</sup> Street, and Miner Street, south of  
30 22<sup>nd</sup> Street. For all other street segments, no significant noise impacts are anticipated.  
31 Impacts for the impacted streets would be significant and unavoidable. It should be  
32 noted that under the proposed Project, only Miner Street south of 22<sup>nd</sup> Street was  
33 significantly impacted. Alternative 2 would generate significant noise impacts to  
34 22<sup>nd</sup> Street, from Signal Street to Miner Street, and to Harbor Boulevard, from 6<sup>th</sup>  
35 Street to 7<sup>th</sup> Street. The reason why Alternative 2 triggers significant impacts along  
36 those two roads is because the northbound Harbor Boulevard traffic cul-de-sacs at  
37 13<sup>th</sup> Street and diverts traffic to 22<sup>nd</sup> Street and Miner Street.

## 38 Mitigation Measures

39 No mitigation is available.



**Residual Impacts**

Impacts would be significant and unavoidable.

**NEPA Traffic Impacts**

Methods for calculating NEPA traffic noise impacts for Alternative 2 are the same as those described under the proposed Project.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-12. Traffic Noise Increases Due To Alternative 2 under NEPA**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	61.1	60.2	-0.9	0.8
Harbor Boulevard to Centre Street	30	60.7	60.0	-0.8	1.7
Centre Street to Pacific Avenue	30	63.1	62.7	-0.4	1.2
Pacific Avenue to Grand Avenue	30	63.9	63.5	-0.4	1.2
Grand Avenue to Gaffey Street	30	64.7	64.4	-0.3	1.1
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.7	58.8	0.0	3.2
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	62.7	62.7	0.0	1.3
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	*	*	*	*

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
Harbor Boulevard to Centre Street	30	57.1	57.2	0.1	1.7
Centre Street to Pacific Avenue	30	59.3	59.3	0.0	1.0
Pacific Avenue to Grand Avenue	30	58.4	58.4	0.1	1.0
Grand Avenue to Gaffey Street	30	59.4	59.4	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.0	0.9
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	63.3	63.8	0.5	0.5
Harbor Boulevard to Centre Street	30	63.4	63.3	-0.1	0.7
Centre Street to Pacific Avenue	30	59.9	59.9	0.0	1.4
Pacific Avenue to Grand Avenue	30	60.5	60.5	0.0	1.2
Grand Avenue to Gaffey Street	30	62.9	62.8	0.0	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.8	62.9	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.3	65.3	0.1	1.2
Grand Avenue to Gaffey Street	35	66.5	66.6	0.0	1.1
Gaffey Street to Patton Avenue	35	67.9	67.9	0.0	0.9
Patton Avenue to Western Avenue	35	65.2	65.2	0.0	1.0
Western Avenue to Chandeleur Drive	35	65.2	65.2	0.0	0.9
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	59.0	59.0	0.0	0.7
Pacific Avenue to Grand Avenue	25	61.5	61.5	0.0	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.9	61.9	0.0	0.7
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.7
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
Mesa Street to Pacific Avenue	35	60.0	60.0	0.0	0.8
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	59.0	64.0	<u>5.0</u>	<u>5.2</u>
Miner Street to Via Cabrillo Marina	25	63.8	64.4	0.6	1.3
Via Cabrillo Marina to Mesa Street	25	63.6	64.2	0.6	1.3
Mesa Street to Pacific Avenue	25	63.8	64.3	0.6	1.3
Pacific Avenue to Grand Avenue	25	62.0	62.8	0.9	1.6
Grand Avenue to Gaffey Street	25	62.4	63.1	0.8	1.4
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.9	67.0	0.0	0.9
Patton Avenue to Western Avenue	35	67.7	67.7	0.0	0.9
Western Avenue to Moray Avenue	35	68.1	68.1	0.0	0.9
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.8	72.2	2.3	<u>6.5</u>
Gaffey Street On Ramp	50	77.8	77.8	0.0	1.0
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.9	61.8	0.0	0.7
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.6	74.7	0.0	1.0
Sepulveda Street to 1 <sup>st</sup> Street	35	74.5	74.5	0.0	1.0
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.4	0.1	1.0

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.2	0.1	1.0
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.8	0.1	1.0
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.7	0.1	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.2	0.2	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.4	0.2	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.7	0.2	0.9
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	70.1	0.2	0.9
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.4	69.6	0.2	1.0
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.2	69.4	0.3	1.0
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.4	68.7	0.3	1.1
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.2	68.5	0.3	1.1
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.3	68.3	0.0	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.8	67.8	0.0	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	56.1	51.0	-5.1	-3.0
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.3	63.7	0.5	2.3
Knoll Drive to 110 Freeway	35	65.9	66.2	0.3	2.2
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.7	70.1	1.4	<b>4.0</b>
Swinford Street to Beacon Street	35	71.5	72.7	1.2	1.9
Beacon Street to O'Farrell Street	35	72.1	73.3	1.2	2.4
O'Farrell Street to Santa Cruz Street	35	72.1	73.3	1.2	2.4
Santa Cruz Street to 1 <sup>st</sup> Street	35	71.7	73.0	1.3	2.4
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	71.3	72.8	1.4	2.3
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	71.2	72.7	1.5	2.4
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	71.1	72.6	1.5	2.3
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	70.7	72.3	1.6	2.3
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	70.6	72.2	1.6	2.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
7 <sup>th</sup> Street to Gulch Road	35	68.1	63.2	-4.9	-2.1
Gulch Road to Crescent Avenue	35	67.6	63.2	-4.4	-1.8
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.1	68.3	2.2	<b>3.0</b>
South of 22 <sup>nd</sup> Street	35	57.0	68.8	<b>11.8</b>	<b>12.5</b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.3	56.3	0.0	1.1
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	67.0	67.0	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.2	66.2	0.0	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 2 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 2</i>	<i>NEPA Cumulative Increase Over 2007</i>
Front Street to Harbor Boulevard	35	*	*	*	*
47 Ramp	35	69.4	69.9	0.5	1.2
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 2 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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**NEPA Impact Determination**

Two of the three roadway segments that experienced significant impacts under CEQA would experience significant impacts under NEPA: 22<sup>nd</sup> Street, Signal to Miner Street and Miner Street, south of 22<sup>nd</sup> Street. For all other street segments, no significant noise impacts are anticipated. Impacts for the impacted streets would be significant and unavoidable.

Mitigation Measures

No mitigation is available.

Residual Impacts

Impacts would be significant and unavoidable.

**Impact NOI-3b: Alternative 2 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

The only railroad operation planned under Alternative 2 is the Waterfront Red Car Line. Under Alternative 2, the Waterfront Red Car Line would be extended down to Cabrillo Beach along Shoshonean Way, the same as described under the proposed Project. The largest noise impact caused by the Waterfront Red Car Line under

1 Alternative 2 is along Shoshonean Way. Because the noise impact would not be  
2 significant under the proposed Project, it would not be significant under Alternative  
3 2.

4 **CEQA Impact Determination**

5 Impacts would be less than significant.

6 Mitigation Measures

7 No mitigation is required.

8 Residual Impacts

9 Impacts would be less than significant.

10 **NEPA Impact Determination**

11 Impacts would be less than significant.

12 Mitigation Measures

13 No mitigation is required.

14 Residual Impacts

15 Impacts would be less than significant.

16 **Impact NOI-3c: Alternative 2 would not cause noise from**  
17 **cruise ship operations measured at the property line of**  
18 **affected uses to increase by 3 dBA in CNEL, to or within the**  
19 **“normally unacceptable” or “clearly unacceptable” category,**  
20 **or any 5 dBA or greater noise increase.**

21 Two new cruise ship berths would be constructed in the Outer Harbor. These are the  
22 same two cruise ship berths that would be constructed under the proposed Project.  
23 The noise impacts for Alternative 2 due to cruise operations would be the same as for  
24 the proposed Project. The noise impacts due to cruise ship operations for Alternative  
25 2 would be less than significant.

26 **CEQA Impact Determination**

27 Impacts would be less than significant.

28 Mitigation Measures

29 No mitigation is required.

1                    Residual Impacts

2                    Impacts would be less than significant.

3                    **NEPA Impact Determination**

4                    Impacts would be less than significant.

5                    Mitigation Measures

6                    No mitigation is required.

7                    Residual Impacts

8                    Impacts would be less than significant.

9    **3.9.4.3.4            Alternative 3—Alternative Development Scenario 3**  
10                    **(Reduced Project)**

11                    **Impact NOI-1: Alternative 3 would exceed construction**  
12                    **noise standards.**

13                    All construction noise impacts for Alternative 3 would be the same as the proposed  
14                    Project except the following:

15                    **Outer Harbor Berths and Terminal Facilities:** The Outer Harbor Berths and  
16                    Terminal Facilities for Alternative 3 would reduce the number of cruise ship berths  
17                    that would be built in the Outer Harbor compared to the proposed Project; only one  
18                    terminal and one cruise berth would be constructed under this alternative. However,  
19                    the type of construction and noise levels for this alternative would be the same as for  
20                    the proposed Project. Construction noise would exceed the significance threshold.

21                    **Inner Harbor Parking:** The size of the Inner Harbor parking structure would be  
22                    reduced in scale; however, the type of construction and noise levels for this  
23                    alternative would be the same as for the proposed Project. Construction noise would  
24                    exceed the significance threshold.

25                    **Outer Harbor Parking:** The size of the Outer Harbor surface parking would be  
26                    reduced from 400 surface parking spaces to 200 surface parking spaces; however, the  
27                    type of construction and noise levels for this alternative would be the same as for the  
28                    proposed Project. Construction noise would exceed the significance threshold.

29                    **Ports O’Call Development:** The Ports O’Call Development for this alternative  
30                    would be scaled down in size from the proposed Project. Construction noise would  
31                    not exceed the significance threshold.



1           **Ports O’Call Parking:** No Ports O’Call parking structures would be built for this  
2 alternative, so there would not be any significant construction noise impacts.

3           **Waterfront Red Car Museum:** The Waterfront Red Car Museum would be located  
4 at the 7<sup>th</sup> Street Bluff instead of outside of the proposed project area. The nearest  
5 sensitive receiver to the 7<sup>th</sup> Street Bluff is a residence on Beacon Street. The closest  
6 measurement site is ST-5. Site ST-5 has an ambient  $L_{eq}$  of 62.4 dBA. The  $L_{eq}$  at the  
7 nearest sensitive receiver due to construction is projected to be 69 dBA. With a noise  
8 increase of over 6 dB at the property line of the nearest sensitive receiver,  
9 construction noise would exceed the significance threshold.

10           **Harbor Boulevard Lane Capacity:** Under this alternative, the construction due to  
11 the reduction in lane capacity along Harbor Boulevard would produce an  $L_{eq}$  of  
12 89 dBA at the nearest residence, which is 50 feet away. Construction noise would  
13 exceed the significance threshold.

#### 14           **CEQA Impact Determination**

15           Impacts resulting from construction activities would be significant.

#### 16           Mitigation Measures

17           Implement Mitigation Measure MM NOI-1.

#### 18           Residual Impacts

19           As discussed under the proposed Project, Mitigation MM NOI-1 would reduce  
20 impacts; however, impacts would remain significant. Impacts would be significant  
21 and unavoidable.

#### 22           **NEPA Impact Determination**

23           Impacts would be significant, but to a lesser extent than analyzed under CEQA (i.e.,  
24 many of the upland locations are not subject to federal control and responsibility or  
25 NEPA). The following proposed project elements would make a significant impact  
26 under NEPA.

- 27           ■ North Harbor;
- 28           ■ Downtown Harbor;
- 29           ■ 7<sup>th</sup> Street Harbor;
- 30           ■ 7<sup>th</sup> Street Pier;
- 31           ■ Waterfront Promenade:
  - 32           □ Ports O’Call,
  - 33           □ City Dock No. 1,
  - 34           □ Outer Harbor,

- 1                   □ Cabrillo Beach, and
- 2                   □ Salt Marsh;
- 3                   ■ Cruise Ship Facilities:
- 4                   □ Outer Harbor Berths and Terminal Facilities;
- 5                   ■ Tugboats:
- 6                   □ Crowley Tug Building;
- 7                   ■ Los Angeles Maritime Institute; and
- 8                   ■ New fueling facility at Berth 240.

9                   Mitigation Measures

10                  Implement Mitigation Measure MM NOI-1.

11                  Residual Impacts

12                  Impacts would be significant and unavoidable.

13                  **Impact NOI-2: Construction activities for Alternative 3 would**  
14                  **not exceed the ambient noise level by 5 dBA at a noise**  
15                  **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
16                  **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
17                  **on Saturday, or at any time on Sunday.**

18                  No construction activities are planned to occur between the hours of 9:00 p.m. and  
19                  7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
20                  at any time on Sunday.

21                  **CEQA Impact Determination**

22                  Impacts would be less than significant.

23                  Mitigation Measures

24                  No mitigation is required.

25                  Residual Impacts

26                  Impacts would be less than significant.

27                  **NEPA Impact Determination**

28                  Impacts would be less than significant.

Mitigation Measures

No mitigation is required.

Residual Impacts

Impacts would be less than significant.

**Impact NOI-3a: Alternative 3 would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

**CEQA Traffic Impacts**

Methods for calculating traffic noise impacts for Alternative 3 are the same as those described under the proposed Project.

There are five roadway segments, one less than the proposed Project, that have a 3 dB or greater noise increase due to Alternative 3. Since a 3 dB increase in noise is the minimum increase that could trigger a significant impact, any increase under 3 dB would not result in a significant impact. It should be kept in mind that a 3 dB increase will only result in a significant impact if the existing CNEL is over 70 dBA.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-13. Traffic Noise Increases Due To Alternative 3**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	59.1	<b>6.2</b>	<b>8.3</b>
Harbor Boulevard to Centre Street	30	56.8	60.4	<b>3.6</b>	<b>5.9</b>
Centre Street to Pacific Avenue	30	61.4	62.9	1.5	<b>3.1</b>
Pacific Avenue to Grand Avenue	30	62.5	63.7	1.2	2.7
Grand Avenue to Gaffey Street	30	63.5	64.5	1.0	2.4
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.5	0.2	<b>3.6</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-11.5
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-11.1
Harbor Boulevard to Centre Street	30	58.2	57.3	-0.9	0.6
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.3	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.1	0.0	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	63.8	<b><u>11.2</u></b>	<b><u>11.2</u></b>
Harbor Boulevard to Centre Street	30	62.6	63.3	0.7	1.6
Centre Street to Pacific Avenue	30	59.8	59.9	0.1	1.4
Pacific Avenue to Grand Avenue	30	60.4	60.4	0.0	1.3
Grand Avenue to Gaffey Street	30	62.8	62.8	0.0	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.8	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.2
Grand Avenue to Gaffey Street	35	66.5	66.5	0.0	1.1
Gaffey Street to Patton Avenue	35	67.8	67.8	0.0	0.9
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1
Western Avenue to Chandeleur Drive	35	65.1	65.2	0.1	1.0

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	58.9	0.2	0.9
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.8	0.0	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.1	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.1	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	61.4	<b>4.1</b>	<b>4.5</b>
Miner Street to Via Cabrillo Marina	25	63.4	63.9	0.5	1.3
Via Cabrillo Marina to Mesa Street	25	63.2	63.8	0.6	1.3
Mesa Street to Pacific Avenue	25	63.4	63.9	0.5	1.3
Pacific Avenue to Grand Avenue	25	61.5	62.2	0.7	1.5
Grand Avenue to Gaffey Street	25	62.0	62.6	0.6	1.4
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	66.9	0.1	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	0.9
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	0.9
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	70.5	0.9	<b>6.1</b>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.1

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.8	0.1	0.8
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.7	0.2	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.1	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.1	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.1	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.1	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.1	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.1	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.1	0.1	0.9
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.3	0.1	0.9
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.6	0.1	0.9
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.9	0.1	0.9
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.4	0.1	0.9
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.2	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.5	0.2	1.0
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.3	0.2	1.0
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	56.2	0.3	1.1
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.4	0.3	2.3
Knoll Drive to 110 Freeway	35	65.8	66.0	0.2	2.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	69.1	0.5	<b>3.5</b>
Swinford Street to Beacon Street	35	70.9	72.0	1.1	2.0
Beacon Street to O'Farrell Street	35	71.4	72.6	1.2	2.6
O'Farrell Street to Santa Cruz Street	35	71.3	72.5	1.2	2.6
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	72.2	1.4	2.7
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	71.7	1.2	2.3
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	71.6	1.3	2.4
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	71.5	1.3	2.2
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	71.1	1.5	2.3
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	71.0	1.8	2.6
7 <sup>th</sup> Street to Gulch Road	35	67.7	68.6	0.9	1.9
Gulch Road to Crescent Avenue	35	67.5	68.4	0.9	1.9
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	67.2	1.2	2.3
South of 22 <sup>nd</sup> Street	35	57.0	65.3	<b>8.3</b>	<b>9.7</b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.2	56.2	0.0	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.1	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 3</i>	<i>Cumulative Increase Over 2007</i>
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.6	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	66.9	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.0	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.1	0.0	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	52.9	-7.6	<b>8.4</b>
47 Ramp	35	68.9	69.4	0.5	1.2
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 3 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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**1<sup>st</sup> Street**

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**East of Harbor Boulevard**

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No residences exist east of Harbor Boulevard. Currently, the traffic traveling along this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup> Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase in noise of 6.2 dB over existing, the projected noise due to Alternative 3 would be 59.1 CNEL. Although this roadway is projected to have an apparent increase of 6.2 dB as a result of Alternative 3 according to the model, this increase is misleading because the model does not take into account noise generated by adjacent roadways.

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1 See the discussion of this roadway segment under the proposed Project for a more  
2 detailed explanation of this effect. When the noise contribution from Harbor  
3 Boulevard is accounted for, the existing noise level along 1<sup>st</sup> Street is much higher  
4 than the modeled noise level due to Alternative 3. No significant noise impacts would  
5 occur along this roadway segment.

#### 6 Harbor Boulevard to Centre Street

7 This section of the roadway is almost completely surrounded by residences on both  
8 sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the  
9 roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and  
10 58.6 CNEL at the property line of the residences. The projected with-project noise  
11 level would be 60.4 CNEL at 50 feet and 62.2 CNEL at the property line of the  
12 nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise  
13 increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in  
14 noise is 3.6 dB, and the with-Alternative 3 noise is less than 70 dBA. This roadway  
15 segment would not experience a significant noise impact because the noise at the  
16 property line does not exceed 70 CNEL.

#### 17 **7<sup>th</sup> Street**

#### 18 Sampson Way to Harbor Boulevard

19 This is the roadway segment that would accept northbound traffic exiting from  
20 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
21 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
22 this section of the roadway. The nearest affected use is a government office building  
23 at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet beyond the end point  
24 of the roadway segment. Since this office building is located on Harbor Boulevard,  
25 the current noise level at the property line of the office building is due mainly to  
26 traffic traveling along Harbor Boulevard. The current traffic along Harbor Boulevard  
27 from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2 dBA. The projected with-  
28 Alternative 3 noise level along 7<sup>th</sup> Street is 63.8 CNEL at 50 feet, and at 110 feet this  
29 noise would be 60.4 CNEL. The with-Alternative 3 noise impact from 7<sup>th</sup> Street  
30 between Sampson Way and Harbor Boulevard would produce less noise at the  
31 property line of the nearest affected use (i.e., City Hall) than what currently exists  
32 today. Under the with-project condition, fewer vehicles would travel down 7<sup>th</sup> Street,  
33 and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This roadway segment  
34 would not experience a significant increase in noise, and no significant impact is  
35 projected.

#### 36 **22<sup>nd</sup> Street**

#### 37 Signal Place to Miner Street

38 There is a warehouse along the roadway segment at 50 feet from the roadway. The  
39 modeled noise level for existing conditions is 57.3 CNEL at 50 feet from the  
40 centerline of the roadway. With an Alternative 3-only noise increase over existing  
41 conditions of 4.1 dB, the with-Alternative 3 noise level is modeled to be 64.0 CNEL

1 at 50 feet. No residences are located along this section of the roadway, and the  
2 nearest residence is over 1,200 feet away. Because the with-Alternative 3 noise  
3 levels are well below 70 CNEL and because the noise increase is 4.1 dB, there would  
4 not be any significant noise impact along this roadway.

### 5 **Miner Street**

#### 6 South of 22<sup>nd</sup> Street

7 This roadway leads into and out of the Outer Harbor. Adjacent to this roadway  
8 segment is the Cabrillo Marina. The closest affected uses to this roadway segment  
9 are live-aboards in the marina. The distance from the roadway to the live-aboards is  
10 at least 80 feet. The modeled noise level for existing conditions is 57.0 CNEL at 50  
11 feet and 55.0 CNEL at 80 feet. The with-Alternative 3 noise level 65.3 CNEL at 50  
12 feet and 63.3 CNEL at 80 feet The Alternative 3-only noise increase over existing  
13 conditions would be 8.3 dB. This is a substantial increase in noise. There would be a  
14 significant impact to this roadway segment because the noise increase is greater than  
15 5 dB.

### 16 **CEQA Impact Determination**

17 Miner Street south of 22<sup>nd</sup> Street is the only street segment that would be significantly  
18 impacted. For all other street segments, no significant noise impacts are anticipated,  
19 and impacts would be less than significant.

#### 20 Mitigation Measures

21 No mitigation is available.

#### 22 Residual Impacts

23 Impacts would be significant and unavoidable.

### 24 **NEPA Traffic Impacts**

25 Methods for calculating NEPA traffic noise impacts for Alternative 3 are the same as  
26 those described under the proposed Project.

27 Traffic noise increases for the year 2015 were also examined, and for all roadway  
28 segments, the traffic volumes for the year 2015 were found to be less than the traffic  
29 volumes for the year 2037. Therefore, the noise increases due to traffic in the year  
30 2015 would be less than the noise increases due to traffic in the year 2037.

1 **Table 3.9-14.** Traffic Noise Increases Due To Alternative 3 under NEPA

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	61.1	59.1	-2.0	0.1
Harbor Boulevard to Centre Street	30	60.7	60.4	-0.3	1.9
Centre Street to Pacific Avenue	30	63.1	62.9	-0.2	1.4
Pacific Avenue to Grand Avenue	30	63.9	63.7	-0.2	1.3
Grand Avenue to Gaffey Street	30	64.7	64.5	-0.1	1.2
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.7	58.5	-0.2	<b>3.1</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	62.7	62.7	0.0	1.4
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	57.1	57.3	0.2	1.8
Centre Street to Pacific Avenue	30	59.3	59.3	0.0	1.0
Pacific Avenue to Grand Avenue	30	58.4	58.4	0.0	1.0
Grand Avenue to Gaffey Street	30	59.4	59.3	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.1	0.0	0.9
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	63.3	63.8	0.5	0.5
Harbor Boulevard to Centre Street	30	63.4	63.3	-0.1	0.7
Centre Street to Pacific Avenue	30	59.9	59.9	-0.1	1.3

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
Pacific Avenue to Grand Avenue	30	60.5	60.4	-0.1	1.2
Grand Avenue to Gaffey Street	30	62.9	62.8	-0.1	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.8	62.8	0.0	1.5
Pacific Avenue to Grand Avenue	35	65.3	65.3	0.0	1.2
Grand Avenue to Gaffey Street	35	66.5	66.5	0.0	1.1
Gaffey Street to Patton Avenue	35	67.9	67.8	0.0	0.9
Patton Avenue to Western Avenue	35	65.2	65.2	0.0	1.0
Western Avenue to Chandeleur Drive	35	65.2	65.2	0.0	0.9
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	59.0	58.9	-0.1	0.6
Pacific Avenue to Grand Avenue	25	61.5	61.5	0.0	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.9	61.8	0.0	0.7
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.7
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	60.0	60.0	0.0	0.8
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.4	0.0	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.0	0.8
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	59.0	61.4	2.3	2.8
Miner Street to Via Cabrillo Marina	25	63.8	63.9	0.1	0.9
Via Cabrillo Marina to Mesa Street	25	63.6	63.8	0.1	0.9

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
Mesa Street to Pacific Avenue	25	63.8	63.9	0.1	0.9
Pacific Avenue to Grand Avenue	25	62.0	62.2	0.2	1.0
Grand Avenue to Gaffey Street	25	62.4	62.6	0.2	1.0
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.9	66.9	0.0	0.8
Patton Avenue to Western Avenue	35	67.7	67.7	0.0	0.8
Western Avenue to Moray Avenue	35	68.1	68.1	0.0	0.8
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.8	70.5	0.7	<u>5.9</u>
Gaffey Street On Ramp	50	77.8	77.8	0.0	1.0
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.9	61.8	-0.1	0.7
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.0
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.6	74.7	0.0	1.0
Sepulveda Street to 1 <sup>st</sup> Street	35	74.5	74.5	0.0	1.0
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.9	0.0	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.7	0.0	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.3	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.1	0.0	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.7	0.0	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.6	0.0	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.1	0.1	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.3	0.1	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.6	0.1	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.9	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.4	69.4	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.2	69.2	0.1	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.4	68.5	0.1	0.9
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.2	68.3	0.1	0.9
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.3	68.3	0.0	0.8
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.8	67.8	0.0	0.8
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	56.1	56.2	0.1	0.8
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.3	63.4	0.1	2.1
Knoll Drive to 110 Freeway	35	65.9	66.0	0.0	2.1
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.7	69.1	0.4	<b>3.4</b>
Swinford Street to Beacon Street	35	71.5	72.0	0.5	1.4
Beacon Street to O'Farrell Street	35	72.1	72.6	0.4	1.8
O'Farrell Street to Santa Cruz Street	35	72.1	72.5	0.5	1.9
Santa Cruz Street to 1 <sup>st</sup> Street	35	71.7	72.2	0.5	1.8
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	71.3	71.7	0.4	1.5
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	71.2	71.6	0.4	1.5
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	71.1	71.5	0.4	1.3
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	70.7	71.1	0.4	1.3
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	70.6	71.0	0.4	1.2
7 <sup>th</sup> Street to Gulch Road	35	68.1	68.6	0.5	1.5
Gulch Road to Crescent Avenue	35	67.6	68.4	0.8	1.8
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.1	67.2	1.1	2.2
South of 22 <sup>nd</sup> Street	35	57.0	65.3	<b><u>8.3</u></b>	<b><u>9.7</u></b>

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.3	56.2	-0.1	1.0
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.2	0.0	1.1
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.6	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	67.0	66.9	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.1	66.0	0.0	0.7
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.2	66.1	0.0	0.7
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	*	52.9	*	*
47 Ramp	35	69.4	69.4	0.0	0.7
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 3 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 3</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 3 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

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### **NEPA Impact Determination**

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Miner Street south of 22<sup>nd</sup> Street is the only street segment that would be significantly impacted. For all other street segments, no significant noise impacts are anticipated, and impacts would be less than significant.

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### **Mitigation Measures**

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No mitigation is available.

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### **Residual Impacts**

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Impacts would be significant and unavoidable.

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**Impact NOI-3b: Alternative 3 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

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The only railroad operation planned under Alternative 3 is the Waterfront Red Car Line. Under Alternative 3, the Waterfront Red Car Line would be extended down to Cabrillo Beach along Shoshonean Way, the same as described under the proposed Project. The largest noise impact caused by the Waterfront Red Car Line under Alternative 3 is along Shoshonean Way. Because the noise impact would not be significant under the proposed Project, it would not be significant under Alternative 3.



1 **CEQA Impact Determination**

2 Impacts would be less than significant.

3 Mitigation Measures

4 No mitigation is required.

5 Residual Impacts

6 Impacts would be less than significant.

7 **NEPA Impact Determination**

8 Impacts would be less than significant.

9 Mitigation Measures

10 No mitigation is required.

11 Residual Impacts

12 Impacts would be less than significant.

13 **Impact NOI-3c: Alternative 3 would not cause noise from**  
14 **cruise ship operations measured at the property line of**  
15 **affected uses to increase by 3 dBA in CNEL, to or within the**  
16 **“normally unacceptable” or “clearly unacceptable” category,**  
17 **or any 5 dBA or greater noise increase.**

18 Since Alternative 3 would include the construction of a new berth at Berths 45–47,  
19 the noise levels at the closest affected use receiver due to cruise ship operations at the  
20 new Outer Harbor berth would be the same as for the proposed Project. The noise  
21 impacts due to cruise ship operations under Alternative 3 would be less than  
22 significant.

23 **CEQA Impact Determination**

24 Impacts would be less than significant.

25 Mitigation Measures

26 No mitigation is required.

27 Residual Impacts

28 Impacts would be less than significant.

1                   **NEPA Impact Determination**

2                   Impacts would be less than significant.

3                   Mitigation Measures

4                   No mitigation is required.

5                   Residual Impacts

6                   Impacts would be less than significant.

7   **3.9.4.3.5           Alternative 4—Alternative Development Scenario 4**

8                   **Impact NOI-1: Alternative 4 would exceed construction**  
9                   **noise standards.**

10                  All construction noise impacts for Alternative 4 would be the same as the proposed  
11                  Project except the following:

12                  **North Harbor:** The North Harbor would not be constructed, so there would not be  
13                  any significant construction noise impacts resulting from this construction as listed in  
14                  Table 3.9-6.

15                  **Outer Harbor Berths and Terminal Facilities:** The Outer Harbor Berths and  
16                  Terminal Facilities would not be constructed, so there would not be any significant  
17                  construction noise impacts.

18                  **Inner Harbor Parking:** The size of the Inner Harbor parking structure would be  
19                  reduced in scale; however, the type of construction and noise levels for this  
20                  alternative would be the same as for the proposed Project. Construction noise would  
21                  exceed the significance threshold.

22                  **Outer Harbor Parking:** The Outer Harbor parking would be reduced from 400  
23                  surface parking spaces to 60 surface parking spaces; however, the type of  
24                  construction would be the same as for the proposed Project, so there would be a  
25                  significant construction noise impact.

26                  **Waterfront Red Car Museum:** The Waterfront Red Car Museum would be located  
27                  alongside the Waterfront Red Car Maintenance Facility at the 13<sup>th</sup> Street Bluff  
28                  location, and medium construction equipment would be used; therefore, all  
29                  construction noise levels that would be valid for the Waterfront Red Car Maintenance  
30                  Facility would also be valid for the Waterfront Red Car Museum. Construction noise  
31                  would exceed the significance threshold.

32                  **Tugboats at the Crowley Tug Building:** Since the tugboats would remain in their  
33                  existing location, there would not be any significant construction noise impacts.

1           **Los Angeles Maritime Institute:** Since the Los Angeles Maritime Institute would  
2 remain in its existing location, there would not be any significant construction noise  
3 impacts.

4           **S.S. Lane Victory:** The S.S. Lane Victory would be relocated to Ports O'Call.  
5 Construction noise would not exceed the significance threshold.

### 6           **CEQA Impact Determination**

7           Impacts resulting from construction activities at the Inner Harbor and the Waterfront  
8 Red Car Museum and Maintenance Facility would be significant.

### 9           Mitigation Measures

10          Implement Mitigation Measure NOI-1.

### 11          Residual Impacts

12          As discussed under the proposed Project, Mitigation MM NOI-1 would reduce  
13 impacts; however, impacts would remain significant. Impacts would be significant  
14 and unavoidable.

### 15          **NEPA Impact Determination**

16          Impacts would be significant, but to a lesser extent than analyzed under CEQA (i.e.,  
17 many of the upland locations are not subject to federal control and responsibility or  
18 NEPA). The following proposed project elements would make a significant impact  
19 under NEPA.

- 20          ■ Downtown Harbor;
- 21          ■ 7<sup>th</sup> Street Harbor;
- 22          ■ 7<sup>th</sup> Street Pier;
- 23          ■ Waterfront Promenade:
  - 24               □ Ports O'Call,
  - 25               □ City Dock No. 1,
  - 26               □ Outer Harbor,
  - 27               □ Cabrillo Beach, and
  - 28               □ Salt Marsh; and
- 29          ■ New fueling facility at Berth 240.

30          There would be no significant construction impacts from the Inner Harbor parking,  
31 the Outer Harbor Berths and terminal facilities, the Crowley tug building, and the Los  
32 Angeles Maritime Institute.

1                    Mitigation Measures

2                    Implement Mitigation Measure MM NOI-1.

3                    Residual Impacts

4                    Impacts would be significant and unavoidable.

5                    **Impact NOI-2: Construction activities for Alternative 4 would**  
6                    **not exceed the ambient noise level by 5 dBA at a noise**  
7                    **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
8                    **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
9                    **on Saturday, or at any time on Sunday.**

10                  No construction activities are planned to occur between the hours of 9:00 p.m. and  
11                  7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
12                  at any time on Sunday.

13                  **CEQA Impact Determination**

14                  Impacts would be less than significant.

15                  Mitigation Measures

16                  No mitigation is required.

17                  Residual Impacts

18                  Impacts would be less than significant.

19                  **NEPA Impact Determination**

20                  Impacts would be less than significant.

21                  Mitigation Measures

22                  No mitigation is required.

23                  Residual Impacts

24                  Impacts would be less than significant.

**Impact NOI-3a: Alternative 4 would not cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.**

### CEQA Traffic Impact

Methods for calculating traffic noise impacts for Alternative 4 are the same as those described under the proposed Project.

There are three roadway segments, three segments less than the proposed Project that have a 3 dB or greater noise increase due to Alternative 4. Since a 3 dB increase in noise is the minimum increase that could trigger a significant impact, any increase under 3 dB would not result in a significant impact. It should be kept in mind that a 3 dB increase will only result in a significant impact if the existing CNEL is over 70 dBA.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-15. Traffic Noise Increases Due To Alternative 4**

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	61.1	<b>8.2</b>	<b>9.7</b>
Harbor Boulevard to Centre Street	30	56.8	60.7	<b>3.9</b>	<b>6.1</b>
Centre Street to Pacific Avenue	30	61.4	63.1	1.7	<b>3.2</b>
Pacific Avenue to Grand Avenue	30	62.5	63.9	1.4	2.8
Grand Avenue to Gaffey Street	30	63.5	64.7	1.2	2.5
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.8	0.5	<b>3.7</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-10.3
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.4
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-11.1
Harbor Boulevard to Centre Street	30	58.2	57.3	-0.9	0.6
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.4	0.1	1.0
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.1	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	63.3	<b>10.7</b>	<b>10.7</b>
Harbor Boulevard to Centre Street	30	62.6	63.5	0.9	1.7
Centre Street to Pacific Avenue	30	59.8	60.0	0.2	1.5
Pacific Avenue to Grand Avenue	30	60.4	60.5	0.1	1.4
Grand Avenue to Gaffey Street	30	62.8	62.8	0.0	1.2
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.8	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.2
Grand Avenue to Gaffey Street	35	66.5	66.5	0.0	1.1
Gaffey Street to Patton Avenue	35	67.8	67.9	0.1	0.9
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1
Western Avenue to Chandeleur Drive	35	65.1	65.2	0.1	1.0
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	59.0	0.3	1.0
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.9	0.1	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.1	0.9
Grand Avenue to Gaffey Street	35	63.3	63.3	0.0	0.9
Gaffey Street to Meyler Street	35	65.7	65.8	0.1	0.9
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	59.0	1.7	2.4
Miner Street to Via Cabrillo Marina	25	63.4	63.8	0.4	1.2
Via Cabrillo Marina to Mesa Street	25	63.2	63.6	0.4	1.2
Mesa Street to Pacific Avenue	25	63.4	63.8	0.4	1.1
Pacific Avenue to Grand Avenue	25	61.5	62.0	0.5	1.3
Grand Avenue to Gaffey Street	25	62.0	62.3	0.3	1.2
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	66.9	0.1	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	0.9
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	1.0
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	69.9	0.3	<b>6.0</b>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.1
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.9	0.2	0.9
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.6	0.1	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.8	0.0	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.6	0.0	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.2	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.0	0.0	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.6	0.0	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.5	0.0	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.0	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.2	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.5	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.4	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.2	0.1	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.4	0.1	0.9
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.2	0.1	0.9
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	56.1	0.2	1.0
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.3	0.2	2.3
Knoll Drive to 110 Freeway	35	65.8	65.9	0.1	2.2
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	68.7	0.1	<b>3.3</b>
Swinford Street to Beacon Street	35	70.9	71.6	0.7	1.6
Beacon Street to O'Farrell Street	35	71.4	72.1	0.7	2.3
O'Farrell Street to Santa Cruz Street	35	71.3	72.1	0.8	2.3



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	71.7	0.9	2.3
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	71.3	0.8	2.0
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	71.2	0.9	2.0
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	71.1	0.9	1.9
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	70.7	1.1	2.0
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	70.6	1.4	2.2
7 <sup>th</sup> Street to Gulch Road	35	67.7	68.1	0.4	1.5
Gulch Road to Crescent Avenue	35	67.5	67.6	0.1	1.3
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	66.1	0.1	1.5
South of 22 <sup>nd</sup> Street	35	57.0	57.0	0.0	<b><u>5.5</u></b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.2	56.3	0.1	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.1	0.0	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.1	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	67.0	0.1	0.9
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 4</i>	<i>Cumulative Increase Over 2007</i>
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.2	0.1	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	*	*	<u>7.9</u>
47 Ramp	35	68.9	69.4	0.5	1.3
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 4 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

1

2

**1<sup>st</sup> Street**

3

**East of Harbor Boulevard**

4

No residences exist east of Harbor Boulevard. Currently, the traffic traveling along

5

this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup>

6

Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase

7

in noise of 8.2 dB over existing, the projected noise due to Alternative 4 would be

8

61.1 CNEL. Although this roadway is projected to have an apparent increase of 8.2

9

dB as a result of Alternative 4 according to the model, this increase is misleading

10

because the model does not take into account noise generated by adjacent roadways.

11

See the discussion of this roadway segment under the proposed Project for a more

12

detailed explanation of this effect. When the noise contribution from Harbor

13

Boulevard is accounted for, the existing noise level along 1<sup>st</sup> Street is much higher

14

than the modeled noise level due to Alternative 4. No significant noise impacts would

15

occur along this roadway segment.

### 1 Harbor Boulevard to Centre Street

2 This section of the roadway is almost completely surrounded by residences on both  
3 sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the  
4 roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and  
5 58.6 CNEL at the property line of the residences. The projected with-project noise  
6 level would be 60.7 CNEL at 50 feet and 62.5 CNEL at the property line of the  
7 nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise  
8 increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in  
9 noise is 3.9 dB and the with-Alternative 4 noise is less than 70 dBA. This roadway  
10 segment would not experience a significant noise impact since the noise at the  
11 property line does not exceed 70 CNEL.

### 12 **7<sup>th</sup> Street**

#### 13 Sampson Way to Harbor Boulevard

14 This is the roadway segment that would accept northbound traffic exiting from  
15 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
16 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
17 this section of the roadway. The nearest affected use is a government office building  
18 at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet beyond the end point  
19 of the roadway segment. Since this office building is located on Harbor Boulevard,  
20 the current noise levels at the property line of the office building is due mainly to  
21 traffic traveling along Harbor Boulevard. The current traffic along Harbor Boulevard  
22 from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2 dBA. The projected with-  
23 Alternative 4 noise level along 7<sup>th</sup> Street is 63.3 CNEL at 50 feet, and at 110 feet this  
24 noise would be 59.9 CNEL. The with-Alternative 4 noise impact from 7<sup>th</sup> Street  
25 between Sampson Way and Harbor Boulevard would produce less noise at the  
26 property line of the nearest affected use (i.e., City Hall) than what currently exists  
27 today. Under the with-project condition, fewer vehicles would travel down 7<sup>th</sup> Street,  
28 and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This roadway segment  
29 would not experience a significant increase in noise, and no significant impact is  
30 projected.

### 31 **CEQA Impact Determination**

32 For all street segments, no noise impacts are anticipated. Impacts would be less than  
33 significant. The noise increases for all potentially significantly impacted roadways  
34 for this for alternative were less than the increases for the same roadways under the  
35 proposed Project.

### 36 Mitigation Measures

37 No mitigation is required.

### 38 Residual Impacts

39 Impacts would be less than significant.

## NEPA Traffic Impacts

Methods for calculating NEPA traffic noise impacts for Alternative 4 are the same as those described under the proposed Project.

Traffic noise increases for the year 2015 were also examined, and for all roadway segments, the traffic volumes for the year 2015 were found to be less than the traffic volumes for the year 2037. Therefore, the noise increases due to traffic in the year 2015 would be less than the noise increases due to traffic in the year 2037.

**Table 3.9-16.** Traffic Noise Increases Due To Alternative 4 under NEPA

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	61.1	61.1	0.0	1.4
Harbor Boulevard to Centre Street	30	60.7	60.7	0.0	2.1
Centre Street to Pacific Avenue	30	63.1	63.1	0.0	1.5
Pacific Avenue to Grand Avenue	30	63.9	63.9	0.0	1.4
Grand Avenue to Gaffey Street	30	64.7	64.7	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.7	58.8	0.0	<b>3.2</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	62.7	62.7	0.0	1.4
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.3
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	*	*	*	*
Harbor Boulevard to Centre Street	30	57.1	57.3	0.2	1.8
Centre Street to Pacific Avenue	30	59.3	59.3	0.0	1.0
Pacific Avenue to Grand Avenue	30	58.4	58.4	0.1	1.0

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
Grand Avenue to Gaffey Street	30	59.4	59.4	0.0	0.9
Gaffey Street to Cabrillo Avenue	30	59.1	59.2	0.0	0.9
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	63.3	63.8	0.5	0.5
Harbor Boulevard to Centre Street	30	63.4	63.5	0.0	0.9
Centre Street to Pacific Avenue	30	59.9	60.0	0.0	1.4
Pacific Avenue to Grand Avenue	30	60.5	60.5	0.0	1.3
Grand Avenue to Gaffey Street	30	62.9	62.8	0.0	1.1
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.8	62.8	0.0	1.5
Pacific Avenue to Grand Avenue	35	65.3	65.3	0.0	1.2
Grand Avenue to Gaffey Street	35	66.5	66.5	0.0	1.1
Gaffey Street to Patton Avenue	35	67.9	67.9	0.0	0.9
Patton Avenue to Western Avenue	35	65.2	65.2	0.0	1.0
Western Avenue to Chandeleur Drive	35	65.2	65.2	0.0	0.9
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	59.0	59.0	0.0	0.7
Pacific Avenue to Grand Avenue	25	61.5	61.5	0.0	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.9	61.9	0.0	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.7
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	60.0	60.0	0.0	0.8
Pacific Avenue to Grand Avenue	35	61.0	61.1	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.3	0.0	0.9

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
Gaffey Street to Meyler Street	35	65.7	65.8	0.0	0.8
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	59.0	59.0	0.0	0.7
Miner Street to Via Cabrillo Marina	25	63.8	63.8	0.0	0.8
Via Cabrillo Marina to Mesa Street	25	63.6	63.6	0.0	0.8
Mesa Street to Pacific Avenue	25	63.8	63.8	0.0	0.8
Pacific Avenue to Grand Avenue	25	62.0	62.0	0.0	0.8
Grand Avenue to Gaffey Street	25	62.4	62.3	0.0	0.8
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.9	66.9	0.0	0.8
Patton Avenue to Western Avenue	35	67.7	67.7	0.0	0.8
Western Avenue to Moray Avenue	35	68.1	68.1	0.0	0.9
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.8	69.9	0.1	<u>5.7</u>
Gaffey Street On Ramp	50	77.8	77.8	0.0	0.9
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.9	61.9	0.0	0.7
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.0
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.6	74.6	0.0	1.0
Sepulveda Street to 1 <sup>st</sup> Street	35	74.5	74.5	0.0	1.0
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.8	0.0	1.0
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.6	0.0	0.9
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.2	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.0	0.0	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.6	0.0	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.5	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.0	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.2	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.5	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.4	69.4	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.4	68.4	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.2	68.2	0.0	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.3	68.3	0.0	0.8
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.8	67.8	0.0	0.8
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	56.1	56.1	0.0	0.8
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.3	63.3	0.0	2.1
Knoll Drive to 110 Freeway	35	65.9	65.9	0.0	2.0
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.7	68.7	0.0	<b>3.2</b>
Swinford Street to Beacon Street	35	71.5	71.6	0.0	1.0
Beacon Street to O'Farrell Street	35	72.1	72.1	0.0	1.5
O'Farrell Street to Santa Cruz Street	35	72.1	72.1	0.0	1.5
Santa Cruz Street to 1 <sup>st</sup> Street	35	71.7	71.7	0.0	1.4
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	71.3	71.3	0.0	1.2
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	71.2	71.2	0.0	1.2
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	71.1	71.1	0.0	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	70.7	70.7	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	70.6	70.6	0.0	0.8
7 <sup>th</sup> Street to Gulch Road	35	68.1	68.1	0.0	1.1
Gulch Road to Crescent Avenue	35	67.6	67.6	0.0	1.2
<b>Miner Street</b>					

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.1	66.1	0.0	1.3
South of 22 <sup>nd</sup> Street	35	57.0	57.0	0.0	<b><u>5.5</u></b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.3	56.3	0.0	1.1
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.1	0.0	1.1
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.7	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	67.0	67.0	0.0	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.1	66.1	0.0	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.2	66.2	0.0	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	*	*	*	*
47 Ramp	35	69.4	69.4	0.0	0.8
<b>Via Cabrillo Marina</b>					



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>NEPA Baseline CNEL @ 50 ft</i>	<i>Existing Plus ALT 4 CNEL @ 50 ft</i>	<i>NEPA dB Increase Due To ALT 4</i>	<i>NEPA Cumulative Increase Over 2007</i>
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 4 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

1

2 **NEPA Impact Determination**

3 For all street segments, no significant noise impacts are anticipated. Impacts would  
4 be less than significant.

5 Mitigation Measures

6 No mitigation is required.

7 Residual Impacts

8 Impacts would be less than significant.

9 **Impact NOI-3b: Alternative 4 would not cause noise from**  
10 **railroad operations measured at the property line of affected**  
11 **uses to increase by 3 dBA in CNEL, to or within the**  
12 **“normally unacceptable” or “clearly unacceptable” category,**  
13 **or any 5 dBA or greater noise increase.**

14 The only railroad operation planned under Alternative 4 is the Waterfront Red Car  
15 Line. Under Alternative 4 the Waterfront Red Car Line would be extended down to  
16 Cabrillo Beach along Shoshonean Way, the same as described under the proposed  
17 Project. The largest noise impact caused by the Waterfront Red Car Line under  
18 Alternative 4 is along Shoshonean Way. Because the noise impact would not be  
19 significant under the proposed Project, it would not be significant under  
20 Alternative 4.

21 **CEQA Impact Determination**

22 Impacts would be less than significant.

1                    Mitigation Measures

2                    No mitigation is required.

3                    Residual Impacts

4                    Impacts would be less than significant.

5                    **NEPA Impact Determination**

6                    Impacts would be less than significant.

7                    Mitigation Measures

8                    No mitigation is required.

9                    Residual Impacts

10                  Impacts would be less than significant.

11                  **Impact NOI-3c: Alternative 4 would not cause noise from**  
12                  **cruise ship operations measured at the property line of**  
13                  **affected uses to increase by 3 dBA in CNEL, to or within the**  
14                  **“normally unacceptable” or “clearly unacceptable” category,**  
15                  **or any 5 dBA or greater noise increase.**

16                  No new cruise berths would be located in the Outer Harbor. The cruise ship terminal  
17                  at Berth 91 would be demolished, and a new terminal would be built. The noise  
18                  levels in the Inner Harbor would not change substantially from the existing levels.

19                  **CEQA Impact Determination**

20                  Impacts would be less than significant.

21                  Mitigation Measures

22                  No mitigation is required.

23                  Residual Impacts

24                  Impacts would be less than significant.

25                  **NEPA Impact Determination**

26                  The cruise ship operations for Alternative 4 are the same for Alternative 5 in terms of  
27                  annual passengers and ships calls; therefore, there would be no significant impacts

1 under NEPA for Alternative 4 because there would be no significant impact under  
2 NEPA for Alternative 5.

### 3 Mitigation Measures

4 No mitigation is required.

### 5 Residual Impacts

6 Impacts would be less than significant.

## 7 **3.9.4.3.6 Alternative 5—No-Federal-Action Alternative**

### 8 **Impact NOI-1: Alternative 5 would exceed construction** 9 **noise standards.**

10 All construction noise impacts for Alternative 5 would be the same as the proposed  
11 Project except the following:

12 **North Harbor:** The North Harbor would not be constructed, so there would not be  
13 any construction noise impacts.

14 **Downtown Harbor:** The Downtown Harbor would not be constructed, so there  
15 would not be any construction noise impacts.

16 **7<sup>th</sup> Street Harbor:** The 7<sup>th</sup> Street Harbor would not be constructed, so there would  
17 not be any construction noise impacts.

18 **7<sup>th</sup> Street Pier:** The 7<sup>th</sup> Street Pier would not be constructed, so there would not be  
19 any construction noise impacts.

20 **Ports O'Call Promenade:** The Ports O'Call Promenade would not be constructed,  
21 so there would not be any construction noise impacts.

22 **City Dock No. 1 Promenade:** The City Dock No. 1 would not be constructed, so  
23 there would not be any construction noise impacts.

24 **Outer Harbor Promenade:** The Outer Harbor Promenade would not be  
25 constructed, so there would not be any construction noise impacts.

26 **Cabrillo Beach Youth Waterfront Sports Center Promenade:** The Cabrillo  
27 Beach Youth Waterfront Sports Center Promenade would be constructed along  
28 Shoshonean Way instead of along the waterside as specified by the proposed Project.  
29 The promenade would still be close enough to sensitive receivers to make a  
30 significant construction noise impact.

1           **Salt Marsh Promenade:** The Salt Marsh Promenade would be constructed along  
2 Shoshonean Way instead of along the waterside as specified by the proposed Project.  
3 The promenade would still be close enough to sensitive receivers to make a  
4 significant construction noise impact.

5           **Outer Harbor Berths and Terminal Facilities:** The Outer Harbor Berths and  
6 Terminal Facilities would not be constructed, so there would not be any construction  
7 noise impacts.

8           **Inner Harbor Parking:** The size of the Inner Harbor parking structure would be  
9 reduced in scale (i.e., the parking structure would provide only 3,525 spaces for  
10 Alternative 5 instead of 4,600 spaces that would be provided by the proposed  
11 Project); however, the type of construction and noise levels for this alternative would  
12 be the same as for the proposed Project. Construction noise would exceed the  
13 significance threshold.

14           **Outer Harbor Parking:** The Outer Harbor parking would be reduced from 400  
15 surface parking spaces to 60 surface parking spaces; however, the type of  
16 construction would be the same as for the proposed Project, so there would be a  
17 significant construction noise impact.

18           **Waterfront Red Car Museum:** The Waterfront Red Car Museum would be located  
19 alongside the Waterfront Red Car Maintenance Facility at the 13<sup>th</sup> Street Bluff  
20 location, and medium construction equipment would be used; therefore, all  
21 construction noise levels that would be valid for the Waterfront Red Car Maintenance  
22 Facility would also be valid for the Waterfront Red Car Museum. Construction noise  
23 would exceed the significance threshold.

24           **Tugboats at the Crowley Tug Building:** Since the tugboats would remain in their  
25 existing location, there would not be any construction noise impacts.

26           **Los Angeles Maritime Institute:** Since the Los Angeles Maritime Institute would  
27 remain in its existing location, there would not be any construction noise impacts.

28           **S.S. Lane Victory:** Since the S.S. Lane Victory would remain in its existing  
29 location, there would not be any construction noise impacts.

30           **Jankovich & Son Fueling Station:** Since the Jankovich fueling station would  
31 remain in its existing location, there would not be any construction noise impacts.

32           **Proposed Fueling Station at Berth 240:** The new fueling station at Berth 240 would  
33 not be built. There would not be any construction noise impacts.

34           **Catalina Express:** Under this alternative, Catalina Express would relocate from  
35 Berth 96 to Berth 95 just north of the S.S. Lane Victory under a separate  
36 environmental review process for the China Shipping Project, and would construct  
37 floating docks. In contrast to the proposed Project, Catalina Express would remain in  
38 this location north of the S.S. Lane Victory and would not relocate to a permanent  
39 location at the S.S. Lane Victory site at Berth 95.

1                   **CEQA Impact Determination**

2                   Impacts resulting from construction activities at the Cabrillo Beach Youth Waterfront  
3                   Sports Center Promenade, the Salt Marsh Promenade, the Inner Harbor parking, the  
4                   Town Square, the demolition of the Westway Terminal, and the Waterfront Red Car  
5                   Museum and Maintenance Facility would be expected to be of the same duration and  
6                   severity as for the proposed Project and would be significant.

7                   Mitigation Measures

8                   Implement Mitigation Measure MM NOI-1.

9                   Residual Impacts

10                  As discussed under the proposed Project, Mitigation MM NOI-1 would reduce  
11                  impacts; however, impacts would remain significant. Impacts would be significant  
12                  and unavoidable.

13                  **NEPA Impact Determination**

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

16                  Mitigation Measures

17                  No mitigation is required.

18                  Residual Impacts

19                  No impacts would occur.

20                  **Impact NOI-2: Construction activities for Alternative 5 would**  
21                  **not exceed the ambient noise level by 5 dBA at a noise**  
22                  **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
23                  **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
24                  **on Saturday, or at any time on Sunday.**

25                  No construction activities are planned to occur between the hours of 9:00 p.m. and  
26                  7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or  
27                  at any time on Sunday.

28                  **CEQA Impact Determination**

29                  Impacts would be less than significant.

1                    Mitigation Measures

2                    No mitigation is required.

3                    Residual Impacts

4                    Impacts would be less than significant.

5                    **NEPA Impact Determination**

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

8                    Mitigation Measures

9                    No mitigation is required.

10                  Residual Impacts

11                  No impacts would occur.

12                  **Impact NOI-3a: Alternative 5 would not cause noise from**  
13                  **motor vehicle traffic measured at the property line of**  
14                  **affected uses to increase by 3 dBA in CNEL, to or within the**  
15                  **“normally unacceptable” or “clearly unacceptable” category,**  
16                  **or any 5 dBA or greater noise increase.**

17                  **CEQA Traffic Impacts**

18                  Methods for calculating traffic noise impacts for Alternative 5 are the same as those  
19                  described under the proposed Project.

20                  There are three roadway segments, three less than the proposed Project, that have a 3  
21                  dB or greater noise increase due to Alternative 5. Since a 3 dB increase in noise is the  
22                  minimum increase that could trigger a significant impact, any increase under 3 dB  
23                  would not result in an increase. It should be kept in mind that a 3 dB increase would  
24                  only result in a significant impact if the existing CNEL is over 70 dBA.

25                  Traffic noise increases for the year 2015 were also examined, and for all roadway  
26                  segments, the traffic volumes for the year 2015 were found to be less than the traffic  
27                  volumes for the year 2037. Therefore, the noise increases due to traffic in the year  
28                  2015 would be less than the noise increases due to traffic in the year 2037.

1 **Table 3.9-17.** Traffic Noise Increases Due To Alternative 5

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 5 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 5</i>	<i>Cumulative Increase Over 2007</i>
<b>1<sup>st</sup> Street</b>					
East of Harbor Boulevard	30	52.9	61.1	<b><u>8.2</u></b>	<b><u>9.7</u></b>
Harbor Boulevard to Centre Street	30	56.8	60.7	<b>3.9</b>	<b><u>6.1</u></b>
Centre Street to Pacific Avenue	30	61.4	63.1	1.7	<b>3.2</b>
Pacific Avenue to Grand Avenue	30	62.5	63.9	1.4	2.8
Grand Avenue to Gaffey Street	30	63.5	64.7	1.2	2.5
Gaffey Street to Cabrillo Avenue	30	68.0	68.0	0.0	0.8
<b>3<sup>rd</sup> Street</b>					
East of Harbor Boulevard	30	N/A	N/A	N/A	N/A
Harbor Boulevard to Centre Street	30	58.3	58.7	0.4	<b>3.7</b>
<b>5<sup>th</sup> Street</b>					
East of Harbor Boulevard	30	56.1	*	*	-7.9
Harbor Boulevard to Centre Street	30	62.8	62.7	-0.1	1.2
Centre Street to Pacific Avenue	30	62.8	62.8	0.0	1.4
Pacific Avenue to Grand Avenue	30	61.8	61.8	0.0	1.5
Grand Avenue to Gaffey Street	30	63.1	63.1	0.0	1.3
Gaffey Street to Cabrillo Avenue	30	64.1	64.1	0.0	0.8
<b>6<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	56.6	*	*	-21.6
Harbor Boulevard to Centre Street	30	58.2	57.1	-1.1	0.5
Centre Street to Pacific Avenue	30	59.2	59.3	0.1	1.1
Pacific Avenue to Grand Avenue	30	58.3	58.4	0.1	1.1
Grand Avenue to Gaffey Street	30	59.3	59.4	0.1	1.0
Gaffey Street to Cabrillo Avenue	30	59.1	59.1	0.0	1.0
<b>7<sup>th</sup> Street</b>					
Sampson Way to Harbor Boulevard	30	52.6	63.3	<b><u>10.7</u></b>	<b><u>10.7</u></b>
Harbor Boulevard to Centre Street	30	62.6	63.4	0.8	1.7
Centre Street to Pacific Avenue	30	59.8	59.9	0.1	1.5
Pacific Avenue to Grand Avenue	30	60.4	60.5	0.1	1.4

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 5 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 5</i>	<i>Cumulative Increase Over 2007</i>
Grand Avenue to Gaffey Street	30	62.8	62.9	0.1	1.2
Gaffey Street to Cabrillo Avenue	30	64.2	64.2	0.0	0.8
<b>9<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	62.7	62.8	0.1	1.6
Pacific Avenue to Grand Avenue	35	65.2	65.3	0.1	1.2
Grand Avenue to Gaffey Street	35	66.5	66.5	0.0	1.1
Gaffey Street to Patton Avenue	35	67.8	67.9	0.1	0.9
Patton Avenue to Western Avenue	35	65.1	65.2	0.1	1.1
Western Avenue to Chandeleur Drive	35	65.1	65.2	0.1	1.0
<b>13<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	25	58.7	59.0	0.3	1.0
Pacific Avenue to Grand Avenue	25	61.4	61.5	0.1	0.8
Grand Avenue to Gaffey Street	25	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	25	64.6	64.6	0.0	0.8
<b>17<sup>th</sup> Street</b>					
Centre Street to Pacific Avenue	35	61.8	61.9	0.1	0.8
Pacific Avenue to Grand Avenue	35	64.5	64.5	0.0	0.8
Grand Avenue to Gaffey Street	35	64.0	64.0	0.0	0.8
Gaffey Street to Meyler Street	35	64.9	64.9	0.0	0.8
<b>19<sup>th</sup> Street</b>					
Mesa Street to Pacific Avenue	35	59.9	60.0	0.1	0.9
Pacific Avenue to Grand Avenue	35	61.0	61.0	0.0	0.9
Grand Avenue to Gaffey Street	35	63.3	63.3	0.0	0.9
Gaffey Street to Meyler Street	35	65.7	65.7	0.0	0.8
<b>22<sup>nd</sup> Street</b>					
Signal Place to Miner Street	25	57.3	59.0	1.7	2.4
Miner Street to Via Cabrillo Marina	25	63.4	63.8	0.4	1.2
Via Cabrillo Marina to Mesa Street	25	63.2	63.6	0.4	1.2
Mesa Street to Pacific Avenue	25	63.4	63.8	0.4	1.2
Pacific Avenue to Grand Avenue	25	61.5	62.0	0.5	1.3



<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 5 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 5</i>	<i>Cumulative Increase Over 2007</i>
Grand Avenue to Gaffey Street	25	62.0	62.4	0.4	1.2
Gaffey Street to Meyler Street	25	56.3	56.3	0.0	0.8
<b>25<sup>th</sup> Street</b>					
Gaffey Street to Patton Avenue	35	66.8	66.9	0.1	1.0
Patton Avenue to Western Avenue	35	67.6	67.7	0.1	0.9
Western Avenue to Moray Avenue	35	68.0	68.1	0.1	1.0
<b>110 Freeway</b>					
Harbor Boulevard On Ramp	50	69.6	69.8	0.2	<b>5.9</b>
Gaffey Street On Ramp	50	77.6	77.8	0.2	1.1
<b>Crescent Avenue</b>					
Sampson Way to Harbor Boulevard	30	48.6	48.6	0.0	0.0
Harbor Boulevard to 20 <sup>th</sup> Street	30	61.7	61.9	0.2	0.9
<b>Gaffey Street</b>					
Miraflores Avenue to Summerland Avenue	35	69.8	69.8	0.0	1.1
Summerland Avenue to 110 Freeway	35	69.4	69.4	0.0	1.2
110 Freeway to Sepulveda Street	35	74.5	74.6	0.1	1.2
Sepulveda Street to 1 <sup>st</sup> Street	35	74.3	74.5	0.2	1.2
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	72.8	72.8	0.0	1.1
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	72.6	72.6	0.0	1.0
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	72.2	72.2	0.0	0.9
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	72.0	72.0	0.0	0.9
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	71.6	71.6	0.0	0.9
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	71.5	71.5	0.0	0.9
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	71.0	71.0	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	71.2	71.2	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	70.5	70.5	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	69.3	69.4	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	69.1	69.2	0.1	0.8
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	68.3	68.4	0.1	0.9

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 5 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 5</i>	<i>Cumulative Increase Over 2007</i>
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	68.1	68.2	0.1	0.9
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	68.2	68.3	0.1	0.9
23 <sup>rd</sup> Street to 25 <sup>th</sup> Street	35	67.7	67.8	0.1	0.9
25 <sup>th</sup> Street to 26 <sup>th</sup> Street	35	64.6	64.6	0.0	0.8
<b>Gulch Road</b>					
Harbor Boulevard to Beacon Street	25	55.9	56.1	0.2	1.0
<b>Front Street</b>					
Pacific Avenue to Knoll Drive	35	63.1	63.3	0.2	2.3
Knoll Drive to 110 Freeway	35	65.8	65.9	0.1	2.2
<b>Harbor Boulevard</b>					
110 Freeway to Swinford Street	35	68.6	68.7	0.1	<b>3.3</b>
Swinford Street to Beacon Street	35	70.9	71.5	0.6	1.6
Beacon Street to O'Farrell Street	35	71.4	72.1	0.7	2.3
O'Farrell Street to Santa Cruz Street	35	71.3	72.1	0.8	2.3
Santa Cruz Street to 1 <sup>st</sup> Street	35	70.8	71.7	0.9	2.3
1 <sup>st</sup> Street to 2 <sup>nd</sup> Street	35	70.5	71.3	0.8	2.0
2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street	35	70.3	71.2	0.9	2.0
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	70.2	71.1	0.9	1.9
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.6	70.7	1.1	2.0
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.2	70.6	1.4	2.2
7 <sup>th</sup> Street to Gulch Road	35	67.7	68.1	0.4	1.5
Gulch Road to Crescent Avenue	35	67.5	67.6	0.1	1.3
<b>Miner Street</b>					
Crescent Avenue to 22 <sup>nd</sup> Street	35	66.0	66.1	0.1	1.5
South of 22 <sup>nd</sup> Street	35	57.0	57.0	0.0	<b><u>5.5</u></b>
<b>O'Farrell Street</b>					
Harbor Boulevard to Centre Street	25	56.2	56.3	0.1	1.2
<b>Pacific Avenue</b>					
Channel Street to Front Street	35	70.1	70.1	0.0	1.2
Front Street to Oliver Street	35	69.3	69.3	0.0	0.8

<i>Roadway Segment</i>	<i>Speed (mph)</i>	<i>Existing 2007 CNEL @ 50 ft</i>	<i>Existing Plus ALT 5 CNEL @ 50 ft</i>	<i>dB Increase Due To ALT 5</i>	<i>Cumulative Increase Over 2007</i>
Oliver Street to 1 <sup>st</sup> Street	35	69.3	69.3	0.0	0.8
1 <sup>st</sup> Street to 3 <sup>rd</sup> Street	35	69.7	69.7	0.0	0.8
3 <sup>rd</sup> Street to 5 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
5 <sup>th</sup> Street to 6 <sup>th</sup> Street	35	69.7	69.7	0.0	0.8
6 <sup>th</sup> Street to 7 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
7 <sup>th</sup> Street to 8 <sup>th</sup> Street	35	69.8	69.8	0.0	0.8
8 <sup>th</sup> Street to 9 <sup>th</sup> Street	35	69.6	69.6	0.0	0.8
9 <sup>th</sup> Street to 11 <sup>th</sup> Street	35	69.2	69.2	0.0	0.8
11 <sup>th</sup> Street to 13 <sup>th</sup> Street	35	68.7	68.7	0.0	0.8
13 <sup>th</sup> Street to 15 <sup>th</sup> Street	35	68.2	68.2	0.0	0.8
15 <sup>th</sup> Street to 17 <sup>th</sup> Street	35	67.6	67.6	0.0	0.8
17 <sup>th</sup> Street to 18 <sup>th</sup> Street	35	66.9	67.0	0.1	0.8
18 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	66.0	66.1	0.1	0.9
19 <sup>th</sup> Street to 20 <sup>th</sup> Street	35	66.0	66.1	0.1	0.8
20 <sup>th</sup> Street to 22 <sup>nd</sup> Street	35	66.1	66.2	0.1	0.8
22 <sup>nd</sup> Street to 23 <sup>rd</sup> Street	35	67.2	67.2	0.0	0.8
<b>Summerland Avenue</b>					
110 Freeway to Gaffey Street	35	65.9	65.9	0.0	0.8
Gaffey Street to Summerland Avenue	35	67.0	67.0	0.0	0.9
<b>Swinford Street</b>					
Front Street to Harbor Boulevard	35	60.5	*	*	<b><u>7.9</u></b>
47 Ramp	35	68.9	69.4	0.5	1.3
<b>Via Cabrillo Marina</b>					
South of 22 <sup>nd</sup> Street	35	60.5	60.5	0.0	0.8
<b>Western Avenue</b>					
Bynner Drive to 9 <sup>th</sup> Street	35	70.3	70.3	0.0	0.8
9 <sup>th</sup> Street to 19 <sup>th</sup> Street	35	70.9	70.9	0.0	0.8
19 <sup>th</sup> Street to 25 <sup>th</sup> Street	35	68.0	68.0	0.0	0.8
25 <sup>th</sup> Street to Paseo del Mar	35	63.8	63.8	0.0	0.8
* Alternative 5 removes traffic from this roadway segment due to a change in circulation patterns, and noise would decrease a substantial but indeterminate amount.					

1

2

**1<sup>st</sup> Street**

3

**East of Harbor Boulevard**

4 No residences exist east of Harbor Boulevard. Currently, the traffic traveling along  
5 this roadway segment is nominal, and the modeled existing noise level due to 1<sup>st</sup>  
6 Street is 52.9 CNEL at 50 feet from the centerline of the roadway. With the increase  
7 in noise of 8.2 dB over existing, the projected noise due to Alternative 5 would be  
8 61.1 CNEL. Although this roadway is projected to have an increase of 8.2 dB as a  
9 result of Alternative 5 according to the model, this increase is misleading because the  
10 model does not take into account noise generated by adjacent roadways. See the  
11 discussion of this roadway segment under the proposed Project for a more detailed  
12 explanation of this effect. When the noise contribution from Harbor Boulevard is  
13 accounted for, the existing noise level along 1<sup>st</sup> Street is much higher than the  
14 modeled noise level due to Alternative 5. No significant noise impacts would occur  
15 along this roadway segment.

16

**Harbor Boulevard to Centre Street**

17 This section of the roadway is almost completely surrounded by residences on both  
18 sides of 1<sup>st</sup> Street. The residences are about 33 feet from the centerline of the  
19 roadway. The modeled noise level for current traffic is 56.8 CNEL at 50 feet and  
20 58.6 CNEL at the property line of the residences. The projected with-Alternative 5  
21 noise level would be 60.7 CNEL at 50 feet and 62.5 CNEL at the property line of the  
22 nearest residence. At points along 1<sup>st</sup> Street away from Harbor Boulevard, the noise  
23 increase is determined mainly by traffic traveling along 1<sup>st</sup> Street. The increase in  
24 noise is 3.9 dB and the with-Alternative 5 noise is less than 70 dBA. This roadway  
25 segment would not experience a significant noise impact since the noise at the  
26 property line does not exceed 70 CNEL.

27

**7<sup>th</sup> Street**

28

**Sampson Way to Harbor Boulevard**

29 This is the roadway segment that would accept northbound traffic exiting from  
30 Sampson Way once the 6<sup>th</sup> Street connection between Sampson Way and Harbor  
31 Boulevard is closed. No residences or affected uses are located on 7<sup>th</sup> Street along  
32 this section of the roadway. The nearest affected use is a government office building  
33 at the corner of 7<sup>th</sup> Street and Harbor Boulevard, about 110 feet beyond the end point  
34 of the roadway segment. Since this office building is located on Harbor Boulevard,  
35 the current noise levels at the property line of the office building is due mainly to  
36 traffic traveling along Harbor Boulevard. The current traffic along Harbor Boulevard  
37 from 6<sup>th</sup> Street to 7<sup>th</sup> Street produces a CNEL of 69.2 dBA. The projected with-  
38 Alternative 5 noise level along 7<sup>th</sup> Street is 63.3 CNEL at 50 feet, and at 110 feet this  
39 noise would be 59.9 CNEL. The with-Alternative 5 noise impact from 7<sup>th</sup> Street  
40 between Sampson Way and Harbor Boulevard would produce less noise at the  
41 property line of the nearest affected use (i.e., City Hall) than what currently exists

1 today. Under the with-project condition, fewer vehicles would travel down 7<sup>th</sup> Street,  
2 and City Hall is closer to 7<sup>th</sup> Street than Harbor Boulevard. This roadway segment  
3 would not experience a significant increase in noise, and no significant impact is  
4 projected.

#### 5 **CEQA Impact Determination**

6 For all street segments, no significant noise impacts are anticipated. Impacts would  
7 be less than significant.

#### 8 Mitigation Measures

9 No mitigation is required.

#### 10 Residual Impacts

11 Impacts would be less than significant.

#### 12 **NEPA Impact Determination**

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

#### 15 Mitigation Measures

16 No mitigation is required.

#### 17 Residual Impacts

18 No impacts would occur.

19 **Impact NOI-3b: Alternative 5 would not cause noise from**  
20 **railroad operations measured at the property line of affected**  
21 **uses to increase by 3 dBA in CNEL, to or within the**  
22 **“normally unacceptable” or “clearly unacceptable” category,**  
23 **or any 5 dBA or greater noise increase.**

24 The only railroad operation planned under Alternative 5 is the Waterfront Red Car  
25 Line. Under Alternative 5 the Waterfront Red Car Line would be extended down to  
26 Cabrillo Beach along Shoshonean Way, the same as described under the proposed  
27 Project. The largest noise impact caused by the Waterfront Red Car Line under  
28 Alternative 5 is along Shoshonean Way. Since the noise impact would not be  
29 significant under the proposed Project, it would not be significant under Alternative  
30 5.

1                   **CEQA Impact Determination**

2                   Impacts would be less than significant.

3                   Mitigation Measures

4                   No mitigation is required.

5                   Residual Impacts

6                   Impacts would be less than significant.

7                   **NEPA Impact Determination**

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

10                  Mitigation Measures

11                  No mitigation is required.

12                  Residual Impacts

13                  No impacts would occur.

14                  **Impact NOI-3c: Alternative 5 would not cause noise from**  
15                  **cruise ship operations measured at the property line of**  
16                  **affected uses to increase by 3 dBA in CNEL, to or within the**  
17                  **“normally unacceptable” or “clearly unacceptable” category,**  
18                  **or any 5 dBA or greater noise increase.**

19                  No new cruise berths would be located in the Outer Harbor. The cruise ship terminal  
20                  at Berth 91 would be demolished, and a new terminal would be built. The noise  
21                  levels in the Inner Harbor would not change substantially from the existing levels.

22                  **CEQA Impact Determination**

23                  Impacts would be less than significant.

24                  Mitigation Measures

25                  No mitigation is required.

26                  Residual Impacts

27                  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    **3.9.4.3.7            Alternative 6—No-Project Alternative**

9                    **Impact NOI-1: Alternative 6 would not exceed construction**  
10                    **noise standards.**

11                    Since Alternative 6 is the no-project alternative, the proposed project elements that  
12                    would be constructed for the proposed Project would not be constructed for  
13                    Alternative 6. The following improvements would reasonably be expected to occur  
14                    under Alternative 6 as part of the cumulative project baseline.

15                    **Town Square:** This would be at a somewhat reduced scale compared to the  
16                    proposed Project. This would occur regardless of the proposed Project, and the noise  
17                    effects have been evaluated as part of the Waterfront Enhancements Mitigated  
18                    Negative Declaration. No new significant impacts would occur.

19                    **Demolition of Westway Terminal:** This would be the same as the proposed Project  
20                    and would occur regardless of the proposed Project. Demolition of the Westway  
21                    Terminal would temporarily generate noise that may be experienced by live-aboards  
22                    in the Cabrillo Phase II area. However, Westway is located approximately 1,500 feet  
23                    from the marina area, which would not produce elevated noise levels above standards  
24                    that would significantly impact sensitive receivers, and construction would occur  
25                    during daytime hours.

26                    **Catalina Express:** Under this alternative, Catalina Express would relocate to floats  
27                    at Berth 95. Construction noise would not occur.

28                    **CEQA Impact Determination**

29                    Impacts resulting from construction activities would be less than significant.

30                    Mitigation Measures

31                    No mitigation is required.

1                    Residual Impacts

2                    Impacts would be less than significant.

3                    **NEPA Impact Determination**

4                    This alternative is not applicable under NEPA.

5                    Mitigation Measures

6                    Not applicable.

7                    Residual Impacts

8                    Not applicable.

9                    **Impact NOI-2: Construction activities for Alternative 6 would**  
10                    **not exceed the ambient noise level by 5 dBA at a noise**  
11                    **sensitive use between the hours of 9:00 p.m. and 7:00 a.m.**  
12                    **Monday through Friday, before 8:00 a.m. or after 6:00 p.m.**  
13                    **on Saturday, or at any time on Sunday.**

14                    No construction activities are planned to occur for the cumulative projects between  
15                    the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or  
16                    after 6:00 p.m. on Saturday, or at any time on Sunday. Additionally, these  
17                    improvements are part of the cumulative baseline and would not result in significant  
18                    impacts.

19                    **CEQA Impact Determination**

20                    No impacts would occur.

21                    Mitigation Measures

22                    No mitigation is required.

23                    Residual Impacts

24                    No impacts would occur.

25                    **NEPA Impact Determination**

26                    This alternative is not applicable under NEPA.

27                    Mitigation Measures

28                    Not applicable.



1                    Residual Impacts

2                    Not applicable.

3                    **Impact NOI-3a: Alternative 6 would not cause noise from**  
4                    **motor vehicle traffic measured at the property line of**  
5                    **affected uses to increase by 3 dBA in CNEL, to or within the**  
6                    **“normally unacceptable” or “clearly unacceptable” category,**  
7                    **or any 5 dBA or greater noise increase.**

8                    Alternative 6 would result in minimal increases in traffic volumes associated with  
9                    future organic growth of the cruise industry. However, the number of cruise ship  
10                    calls would only increase from 258 to 275, an increase of 17 ships annually (and an  
11                    average of 1 vessel per month) by 2015, and would remain constant through 2037.  
12                    The projected small increase in traffic from this increase in cruise passengers would  
13                    not result in significant noise impacts that exceed standards.

14                    **CEQA Impact Determination**

15                    No impacts would occur.

16                    Mitigation Measures

17                    No mitigation is required.

18                    Residual Impacts

19                    No impacts would occur.

20                    **NEPA Impact Determination**

21                    This alternative is not applicable under NEPA.

22                    Mitigation Measures

23                    Not applicable.

24                    Residual Impacts

25                    Not applicable.

1                   **Impact NOI-3b: Alternative 6 would not cause noise from**  
2                   **railroad operations measured at the property line of affected**  
3                   **uses to increase by 3 dBA in CNEL, to or within the**  
4                   **“normally unacceptable” or “clearly unacceptable” category,**  
5                   **or any 5 dBA or greater noise increase.**

6                   The Waterfront Red Car Line would continue to operate as it does currently. Noise  
7                   would not increase above existing conditions. There would be no impacts.

#### 8                   **CEQA Impact Determination**

9                   No impacts would occur.

#### 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 under NEPA.

#### 16                  Mitigation Measures

17                  Not applicable.

#### 18                  Residual Impacts

19                  Not applicable.

20                  **Impact NOI-3c: Alternative 6 would not cause noise from**  
21                  **cruise ship operations measured at the property line of**  
22                  **affected uses to increase by 3 dBA in CNEL, to or within the**  
23                  **“normally unacceptable” or “clearly unacceptable” category,**  
24                  **or any 5 dBA or greater noise increase.**

25                  The cruise ship operations would continue to operate as they do currently, with some  
26                  future growth within the context of the existing facilities. Even with the projected  
27                  increase in the number of cruise line passengers (from 1,150,548 under existing  
28                  conditions to 1,374,982 in 2015 and up to 1,814,976 in 2037), noise would not  
29                  increase significantly above what exists today as a direct result of this alternative.  
30                  The number of cruise ships calls would only increase from 258 to 275, an increase of  
31                  17 ships annually (and an average of 1 vessel per month) by 2015, and would remain

1 constant through 2037. The projected small increase in traffic from this increase in  
2 cruise passengers would not result in significant noise impacts that exceed standards.  
3 There would be no significant impacts.

#### 4 **CEQA Impact Determination**

5 No impacts would occur.

#### 6 Mitigation Measures

7 No mitigation is required.

#### 8 Residual Impacts

9 No impacts would occur.

#### 10 **NEPA Impact Determination**

11 This alternative is not applicable under NEPA.

#### 12 Mitigation Measures

13 Not applicable.

#### 14 Residual Impacts

15 Not applicable.

### 16 **3.9.4.3.8 Summary of Impact Determinations**

17 Table 3.9-18 summarizes the CEQA and NEPA impact determinations of the  
18 proposed Project and its alternatives related to noise, as described in the detailed  
19 discussion in Sections 3.9.4.3.1 through 3.9.4.3.7. This table is meant to allow easy  
20 comparison between the potential impacts of the proposed Project and its alternatives  
21 with respect to this resource. Identified potential impacts may be based on federal,  
22 state, and City of Los Angeles significance criteria, LAHD criteria, and the scientific  
23 judgment of the report preparers.

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

1 **Table 3.9-18.** Summary Matrix of Potential Impacts and Mitigation Measures for Noise Associated with the Proposed Project and Alternatives

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
<b>3.9 Noise</b>				
Proposed Project	<b>Impact NOI-1:</b> The proposed Project would exceed construction noise standards.	CEQA: Significant	<b>MM NOI-1.</b> Construct temporary noise barriers, use quiet construction equipment, and notify residents. The following will reduce impact of noise from construction activities: a) <b>Temporary Noise Barriers.</b> When construction is occurring within 500 feet of a residence or park, temporary noise barriers (solid fences or curtains) will be located between noise-generating construction activities and sensitive receivers. b) <b>Quiet Equipment Selection.</b> Select quiet construction equipment whenever possible. Comply where feasible with noise limits established in the City of Los Angeles Noise Ordinance. c) <b>Notification.</b> Notify residents within 500 feet to the proposed project site of the construction schedule in writing.	CEQA: Significant and unavoidable
		NEPA: Significant	Implement Mitigation Measure MM NOI-1.	NEPA: Significant and unavoidable
	<b>Impact NOI-2:</b> Construction activities for the proposed Project would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
<b>Impact NOI-3a:</b> The	CEQA: Significant	No mitigation is available.	CEQA: Significant and	

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
	proposed Project would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.			unavoidable
		NEPA: Significant	No mitigation is available.	NEPA: Significant and unavoidable
	<b>Impact NOI-3b:</b> The proposed Project would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3c:</b> The proposed Project would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
Alternative 1	<b>Impact NOI-1:</b> Alternative 1 would exceed construction noise standards.	CEQA: Significant	Implement Mitigation Measure MM NOI-1.	CEQA: Significant and unavoidable
		NEPA: Significant	Implement Mitigation Measure MM NOI-1.	NEPA: Significant and unavoidable
	<b>Impact NOI-2:</b> Construction activities for Alternative 1 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3a:</b> Alternative 1 would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Significant	No mitigation is available.	CEQA: Significant and unavoidable
		NEPA: Significant	No mitigation is available.	NEPA: Significant and unavoidable
	<b>Impact NOI-3b:</b> Alternative 1 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
	within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.			
	<b>Impact NOI-3c:</b> Alternative 1 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
Alternative 2	<b>Impact NOI-1:</b> Alternative 2 would exceed construction noise standards.	CEQA: Significant	Implement Mitigation Measure MM NOI-1.	CEQA: Significant and unavoidable
		NEPA: Significant	Implement Mitigation Measure MM NOI-1.	NEPA: Significant and unavoidable
	<b>Impact NOI-2:</b> Construction activities for Alternative 2 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
<b>Impact NOI-3a:</b>	CEQA: Significant	No mitigation is available.	CEQA: Significant and	

Alternative	Environmental Impacts*	Impact Determination	Mitigation Measures	Impacts after Mitigation
	Alternative 2 would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	NEPA: Significant	No mitigation is available.	unavoidable NEPA: Significant and unavoidable
	<b>Impact NOI-3b:</b> Alternative 2 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3c:</b> Alternative 2 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant



<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
Alternative 3	<b>Impact NOI-1:</b> Alternative 3 would exceed construction noise standards.	CEQA: Significant	Implement Mitigation Measure MM NOI-1.	CEQA: Significant and unavoidable
		NEPA: Significant	Implement Mitigation Measure MM NOI-1.	NEPA: Significant and unavoidable
	<b>Impact NOI-2:</b> Construction activities for Alternative 3 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3a:</b> Alternative 3 would cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Significant	No mitigation is available.	CEQA: Significant and unavoidable
		NEPA: Significant	No mitigation is available.	NEPA: Significant and unavoidable
	<b>Impact NOI-3b:</b> Alternative 3 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
	within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.			
	<b>Impact NOI-3c:</b> Alternative 3 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
Alternative 4	<b>Impact NOI-1:</b> Alternative 4 would exceed construction noise standards.	CEQA: Significant	Implement Mitigation Measure MM NOI-1.	CEQA: Significant and unavoidable
		NEPA: Significant	Implement Mitigation Measure MM NOI-1.	NEPA: Significant and unavoidable
	<b>Impact NOI-2:</b> Construction activities for Alternative 4 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
<b>Impact NOI-3a:</b>	CEQA: Less than	No mitigation is required.	CEQA: Less than	

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
	Alternative 4 would not cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	significant		significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3b:</b> Alternative 4 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant
	<b>Impact NOI-3c:</b> Alternative 4 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Less than significant	No mitigation is required.	NEPA: Less than significant

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
Alternative 5	<b>Impact NOI-1:</b> Alternative 5 would exceed construction noise standards.	CEQA: Significant	Implement Mitigation Measure MM NOI-1.	CEQA: Significant and unavoidable
		NEPA: No impact	No mitigation is required.	NEPA: No impact
	<b>Impact NOI-2:</b> Construction activities for Alternative 5 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: No impact	No mitigation is required.	NEPA: No impact
	<b>Impact NOI-3a:</b> Alternative 5 would not cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: No impact	No mitigation is required.	NEPA: No impact
	<b>Impact NOI-3b:</b> Alternative 5 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or	CEQA: Less than significant	No mitigation is required.	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>
	within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.			
	<b>Impact NOI-3c:</b> Alternative 5 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: No impact	No mitigation is required.	NEPA: No impact
Alternative 6	<b>Impact NOI-1:</b> Alternative 6 would exceed construction noise standards.	CEQA: Less than significant	No mitigation is required.	CEQA: Less than significant
		NEPA: Not applicable	Not applicable.	NEPA: Not applicable
	<b>Impact NOI-2:</b> Construction activities for Alternative 6 would not exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.	CEQA: No impact	No mitigation is required.	CEQA: No impact
		NEPA: Not applicable	Not applicable.	NEPA: Not applicable
	<b>Impact NOI-3a:</b>	CEQA: No impact	No mitigation is required.	CEQA: No impact

<i>Alternative</i>	<i>Environmental Impacts*</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
	Alternative 6 would not cause noise from motor vehicle traffic measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	NEPA: Not applicable	Not applicable.	NEPA: Not applicable
	<b>Impact NOI-3b:</b> Alternative 6 would not cause noise from railroad operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: No impact	No mitigation is required.	CEQA: No impact
		NEPA: Not applicable	Not applicable.	NEPA: Not applicable
	<b>Impact NOI-3c:</b> Alternative 6 would not cause noise from cruise ship operations measured at the property line of affected uses to increase by 3 dBA in CNEL, to or within the “normally unacceptable” or “clearly unacceptable” category, or any 5 dBA or greater noise increase.	CEQA: No impact	No mitigation is required.	CEQA: No impact
		NEPA: Not applicable	Not applicable.	NEPA: Not applicable

*Notes:*

\* Impact descriptions for each of the alternatives are the same as for the proposed Project, unless otherwise noted.

† The term *not applicable* 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 **3.9.4.4 Mitigation Monitoring**

2 **Table 3.9-19.** Mitigation Monitoring for Noise

<p><b>Impact NOI-1:</b> The proposed Project would exceed construction noise standards.  <i>(Also applies to Impact NOI-1 for Alternatives 1–5.)</i></p>	
Mitigation Measure	<p><b>MM NOI-1. Construct temporary noise barriers, use quiet construction equipment, and notify residents.</b> The following will reduce impact of noise from construction activities:</p> <p><b>a) Temporary Noise Barriers.</b> When construction is occurring within 500 feet of a residence or park, temporary noise barriers (solid fences or curtains) will be located between noise-generating construction activities and sensitive receivers.</p> <p><b>b) Quiet Equipment Selection.</b> Select quiet construction equipment whenever possible. Comply where feasible with noise limits established in the City of Los Angeles Noise Ordinance.</p> <p><b>c) Notification.</b> Notify residents within 500 feet to the proposed project site of the construction schedule in writing.</p>
Timing	<p><b>a) Temporary Noise Barriers:</b> Prior to and during construction.</p> <p><b>b) Quiet Equipment Selection:</b> Prior to and during construction</p> <p><b>c) Notification:</b> Prior to construction</p>
Methodology	<p><b>a) Temporary Noise Barriers:</b> Prior to any construction which will be located within 500 feet of any residence or park, temporary noise barriers such as a solid fence or acoustical blanket will be constructed to a height which breaks the line of sight of all construction equipment. Noise barriers will remain in place during the use of construction equipment.</p> <p><b>b) Quiet Equipment Selection:</b> Prior to construction, all construction equipment and vehicles using internal combustion engines will be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features and be in an operating condition that meets or exceeds original factory specification.</p> <p><b>c) Notification:</b> Prior to construction, all residences located within a 500-foot radius of the construction site will be notified in writing of the planned construction, including the duration of such construction and contact information for the construction foreman in the event of complaints.</p>
Responsible Parties	Port Engineering and Construction Divisions, and construction contractor
Residual Impacts for Impact NOI-1	Significant

3



### 3.9.5 Significant Unavoidable Impacts

The proposed Project and Alternatives 1 through 5 would result in significant unavoidable noise impacts during construction. During construction, sensitive receivers would experience an increase of over 5 dBA in ambient noise levels at multiple locations. The inclusion of mitigation to reduce noise levels associated with aspects of construction (Mitigation Measure MM NOI-1) would reduce impacts, but not below the threshold. Therefore, noise impacts from construction would be considered significant and unavoidable.

During operations of the proposed Project and Alternatives 1 through 5, additional traffic on roadways surrounding the proposed Project would impact areas surrounding the proposed project site due to the increase in traffic quantity and resultant traffic noise. The proposed Project and Alternatives 1 and 3 would have significant impacts on some sensitive receivers located along Miner Street and no mitigation would be feasible. Operations of Alternative 2 would cause increases in traffic noise to sensitive receivers located along 22<sup>nd</sup> Street, Miner Street, and Harbor Boulevard, and no mitigation would be feasible to reduce impacts to less-than-significant levels.