

Appendix I
Noise Analysis



Appendices

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Construction Generated Noise

Construction Noise at 50 Feet (dBA Leq) - Domestic Housing

Construction Phase	All Applicable Equipment in	Minimum Required Equipment in
	Use ¹	Use ¹
Ground Clearing/Demolition	83	83
Excavation	88	75
Foundation Construction	81	81
Building Construction	81	65
Finishing and Site Cleanup	88	72

Construction Noise at 50 Feet (dBA Leq) - Industrial, Parking Garage, Religious, Amusement and Receptions, Store, Service Station

Construction Phase	All Applicable Equipment in	Minimum Required Equipment in
	Use ¹	Use ¹
Ground Clearing/Demolition	84	87
Excavation	89	74
Foundation Construction	78	78
Building Construction	85	74
Finishing and Site Cleanup	89	75

Construction Noise at 50 Feet (dBA Leq) - Office Building, Hotel, Hospital, School, and Public Works

Construction Phase	All Applicable Equipment in	Minimum Required Equipment in
	Use ¹	Use ¹
Ground Clearing/Demolition	84	84
Excavation	89	79
Foundation Construction	78	78
Building Construction	85	76
Finishing and Site Cleanup	89	76

Source: Bolt, Beranek and Newman, "Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances," prepared for the USEPA, December 31, 1971.

previously mentioned "usage factor" of the equipment, which is the percentage of time during the workday that the equipment is operating at full power. Time-varying noise levels are converted to a single number (L_{eq}) for each piece of equipment during the operation. Besides having daily variations in activities, major construction projects are accomplished in several different phases. Each phase has a specific equipment mix depending on the work to be accomplished during that phase.

As a result of the equipment mix, each phase has its own noise characteristics; some have higher continuous noise levels than others, some have high impact noise levels. The purpose of the quantitative assessment is to determine not only the levels, but also the duration of the noise. The L_{eq} of each phase is determined by combining the L_{eq} contributions from each piece of equipment used in that phase. The impact and the consequent noise mitigation approaches depend on the criteria to be used in assessing impact, as discussed in the next section.

Equipment	Typical Noise Level (dBA) 50 ft from Source
Air Compressor	81
Backhoe	80
Ballast Equalizer	82
Ballast Tamper	83
Compactor	82
Concrete Mixer	85
Concrete Pump	82
Concrete Vibrator	76
Crane, Derrick	88
Crane, Mobile	83
Dozer	85
Generator	81
Grader	85
Impact Wrench	85
Jack Hammer	88
Loader	85
Paver	89
Pile-driver (Impact)	101
Pile-driver (Sonic)	96
Pneumatic Tool	85
Pump	76
Rail Saw	90
Rock Drill	98
Roller	74

Equipment	Typical Noise Level (dBA) 50 ft from Source
Saw	76
Scarifier	83
Scraper	89
Shovel	82
Spike Driver	77
Tie Cutter	84
Tie Handler	80
Tie Inserter	85
Truck	88

Table based on an EPA Report,⁽⁴⁾ measured data from railroad construction equipment taken during the Northeast Corridor Improvement Project, and other measured data.

12.1.3 Construction Noise Criteria

No standardized *criteria* have been developed for assessing construction noise impact. Consequently, criteria must be developed on a project-specific basis unless local ordinances can be found to apply. Generally, local noise ordinances are not very useful in evaluating construction noise. They usually relate to nuisance and hours of allowed activity and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should take into account the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use. While it is not the purpose of this manual to specify standardized criteria for construction noise impact, the following guidelines can be considered reasonable criteria for assessment. If these criteria are exceeded, there may be adverse community reaction.

General Assessment

Estimate the combined noise level in one hour from the two noisiest pieces of equipment, assuming they both operate at the same time. Then identify locations where the level exceeds the following:

<u>Land Use</u>	<u>One-hour L_{eq} (dBA)</u>	
	<u>Day</u>	<u>Night</u>
Residential	90	80
Commercial	100	100
Industrial	100	100

12.2.2 Vibration Source Levels from Construction Equipment

Ground-borne vibration related to human annoyance is generally related to root mean square (rms) velocity levels expressed in VdB. However, a major concern with regard to construction vibration is building damage. Consequently, construction vibration is generally assessed in terms of peak particle velocity (PPV), as defined in Chapter 7.1.2. The relationship of PPV to rms velocity is expressed in terms of the “crest factor,” defined as the ratio of the PPV amplitude to the rms amplitude. Peak particle velocity is typically a factor of 1.7 to 6 times greater than rms vibration velocity.

Various types of construction equipment have been measured under a wide variety of construction activities with an average of source levels reported in terms of velocity as shown in Table 12-2. In this table, a crest factor of 4 (representing a PPV-rms difference of 12 VdB) has been used to calculate the approximate rms vibration velocity levels from the PPV values. Although the table gives one level for each piece of equipment, it should be noted that there is a considerable variation in reported ground vibration levels from construction activities. The data provide a reasonable estimate for a wide range of soil conditions.

Table 12-2. Vibration Source Levels for Construction Equipment (From measured data. ^(7,8,9,10))			
Equipment		PPV at 25 ft (in/sec)	Approximate L_v[†] at 25 ft
Pile Driver (impact)	upper range	1.518	112
	typical	0.644	104
Pile Driver (sonic)	upper range	0.734	105
	typical	0.170	93
Clam shovel drop (slurry wall)		0.202	94
Hydromill (slurry wall)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.210	94
Hoe Ram		0.089	87
Large bulldozer		0.089	87
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79
Small bulldozer		0.003	58
† RMS velocity in decibels (VdB) re 1 micro-inch/second			

DIVISION 4 - PUBLIC HEALTH AND WELFARE

CHAPTER 6 - NOISE REGULATION

ARTICLE 1 - GENERAL PROVISIONS (Added by O-2170; Amended by O-2211)

SECTION 46.1.1. DECLARATION OF POLICY.

SECTION 46.1.2. DEFINITIONS.

SECTION 46.1.3. MEASUREMENTS.

ARTICLE 2 - SPECIAL NOISE SOURCES

SECTION 46.2.1. RADIOS, TELEVISION SETS AND SIMILAR DEVICES.

SECTION 46.2.2. HAWKERS AND PEDDLERS.

SECTION 46.2.3. DRUMS.

SECTION 46.2.4. SCHOOLS, HOSPITALS AND CHURCHES.

SECTION 46.2.5. ANIMALS AND FOWL.

SECTION 46.2.6. MACHINERY, EQUIPMENT, FANS AND AIR CONDITIONING.

SECTION 46.2.7. OIL PRODUCTION EQUIPMENT.

ARTICLE 3 - CONSTRUCTION

SECTION 46.3.1. CONSTRUCTION OF BUILDINGS AND PROJECTS.

SECTION 46.3.2. OPERATION OF OIL EQUIPMENT.

SECTION 46.3.3. ACOUSTICAL BLANKETS.

ARTICLE 4 - VEHICLES

SECTION 46.4.1. VEHICLE REPAIRS.

SECTION 46.4.2. MOTOR DRIVEN VEHICLES.

ARTICLE 5 - AMPLIFIED SOUND (Amended by O-3360)

SECTION 46.5.1. PURPOSE.

SECTION 46.5.2. APPLICATION REQUIRED.

SECTION 46.5.3. REGULATIONS.

ARTICLE 6 - TRAIN HORNS AND WHISTLES

[SECTION 46.6.1. EXCESSIVE SOUND PROHIBITED.](#)

[ARTICLE 7 - GENERAL NOISE REGULATIONS](#)

[SECTION 46.7.1. GENERAL NOISE REGULATIONS.](#)

[SECTION 46.7.2. NOISE LIMITS.](#)

[SECTION 46.7.3. EXCEPTIONS.](#)

[ARTICLE 8 - AIRPORT NOISE LIMITS \(Added by O-2784\)](#)

[SECTION 46.8.1. VIOLATIONS UNLAWFUL.](#)

[SECTION 46.8.2. EXTENDED AIRPORT BOUNDARIES DEFINED.](#)

[SECTION 46.8.3. TAKE-OFF DEFINED.](#)

[SECTION 46.8.4. LANDING DEFINED.](#)

[SECTION 46.8.5. SOUND EXPOSURE LEVEL.](#)

[SECTION 46.8.6. SENEL.](#)

[SECTION 46.8.7. MAXIMUM SOUND LEVEL DEFINED.](#)

[SECTION 46.8.8. AIRCRAFT NOISE LIMIT.](#)

[SECTION 46.8.9. AIRCRAFT NOISE LIMIT AT NIGHT.](#)

[SECTION 46.8.10. AIRCRAFT NOISE EXEMPTION.](#)

[SECTION 46.8.11. CULPABILITY OF INSTRUCTOR PILOT.](#)

[SECTION 46.8.12. CULPABILITY OF AIRCRAFT OWNER OR LESSEE.](#)

[SECTION 46.8.13. DENIAL OF USE OF AIRPORT.](#)

[SECTION 46.8.14. PRESUMPTION OF AIRCRAFT NOISE VIOLATION.](#)

[SECTION 46.8.15. DESIGNATED ENFORCEMENT OFFICIAL.](#)

ARTICLE 1 - GENERAL PROVISIONS (Added by O-2170; Amended by O-2211)

SECTION 46.1.1. DECLARATION OF POLICY.

It is hereby declared to be the policy of the City to prohibit unnecessary, excessive and annoying noises from all sources subject to its police power. At certain levels noises are detrimental to the health and welfare of the citizenry and in the public interests shall be systematically proscribed.

SECTION 46.1.2. DEFINITIONS.

(Amended by O-2466)

As used in this Chapter, unless the context otherwise clearly indicates, the words and phrases used in this Chapter are defined as follows:

- a) Ambient noise is the all encompassing noise associated with a given environment, being usually a composite of sounds from many sources near and far, without inclusion of intruding noises from isolated identifiable sources.
- b) Decibel (db) shall mean a unit of level which denotes the ratio between two (2) quantities which are proportional to power; the number of decibels corresponding to the ratio to two (2) amounts of power is ten (10) times the logarithm to the base ten (10) of this ratio.
- c) Emergency work shall mean work made necessary to restore property to a safe condition following a public calamity or work required to protect persons or property from an imminent exposure to danger.
- d) Noise level, in decibels, is the A-weighted sound pressure level as measured using the slow dynamic characteristic for sound level meters specified in ASA S1.4-1961 , American Standard Specification for General Purpose Sound Level Meters, or latest revision thereof. The reference pressure is twenty (20) micronewtons/square meter (2×10^{-4} microbar).
- e) Person shall mean a person, firm, association, copartnership, joint venture, corporation or any entity, public or private in nature.
- f) Sound level meter shall mean an instrument including a microphone, an amplifier, an output meter, and frequency weighting networks for the measurement of noise and sound levels in a specified manner as specified in ASA S1.4-1961, American Standard Specification for General Purpose Sound Level Meters, or latest revision thereof.
- g) Sound pressure level, in decibels (db) of a sound is twenty (20) times the logarithm to the base ten (10) of the ratio of the pressure of this sound to the reference pressure. For the purpose of this Chapter the reference pressure shall be twenty (20) micronewtons/square meter (2×10^{-4} microbar).
- h) Impulsive sound means a short duration sound (such as might be produced by the impact of a drophammer or pile driver) with one (1) second or less duration.
- i) Motor vehicles shall include, but not be limited to, minibikes and go carts.
- j) Sound amplifying equipment shall mean any machine or device for the amplification of the human voice, music, or any other sound. Sound amplifying equipment shall not include standard automobile radios when used and heard only by the occupants of the vehicle in which the automobile radio is installed. Sound amplifying equipment, as used in this Chapter, shall not include warning devices on authorized emergency vehicles or horns or other warning devices on any vehicle used only for traffic safety purposes.
- k) Sound truck shall mean any motor vehicle, or any other vehicle regardless of motive power, whether in motion or stationary, having mounted thereon, or attached thereto, any sound amplifying equipment.
- l) Commercial purpose shall mean and include the use, operation or maintenance of any sound amplifying equipment for the purpose of advertising any business or any goods or any services, or for the purpose of attracting the attention of the public to, or advertising for, or soliciting patronage or customers to or for any performance, show, entertainment, exhibition, or event, or for the purpose of demonstrating any such sound equipment.
- m) Noncommercial purpose shall mean the use, operation or maintenance of any sound equipment for other than a commercial purpose. Noncommercial purposes shall mean and include, but shall not be limited to, philanthropic, political, patriotic and charitable purposes.
- n) Residential land shall mean that land which is utilized for residential purposes or zoned for residential purposes.
- o) Residential purpose means any purpose involving routine and relatively permanent use of a building as a dwelling, as opposed to relatively transient uses such as hotels and motels.
- p) Day means the time period from 7:00 A.M. to 10:00 P.M.
- q) Night means the time period from 10:00 P.M. to 7:00 A.M.

SECTION 46.1.3. MEASUREMENTS.

Noise levels shall be measured with a sound level meter satisfying the requirements of ASA S1.4-1961,

American Standard Specification for General Purpose Sound Level Meters, or latest revision thereof. Noise level of steady or slowly varying sounds shall be measured using the slow dynamic characteristic of the sound level meter and by reading the central tendency of the needle. Noise level of impulse sounds shall be measured using the fast dynamic characteristic of the sound level meter and by reading the maximum indication of the needle.

ARTICLE 2 - SPECIAL NOISE SOURCES

SECTION 46.2.1. RADIOS, TELEVISION SETS AND SIMILAR DEVICES.

a) Use Restricted. It shall be unlawful for any person within the City of Torrance to use or operate any radio receiving set, musical instrument, phonograph, television set, or other machine or device for the producing or reproducing of sound at any time in such a manner as to produce noise levels on residential land which would disturb the peace, quiet and comfort of neighboring residents or any reasonable person of normal sensitiveness residing in the area.

b) Prima Facie Violation. Any noise exceeding the ambient noise level at the property line of any residential land (or if a condominium or apartment house, within any adjoining apartment) by more than five (5) decibels shall be deemed to be prima facie evidence of a violation of the provisions of this Section.

SECTION 46.2.2. HAWKERS AND PEDDLERS.

It shall be unlawful for any person within the City to sell anything by outcry within any area of the City utilized for residential purposes. The provisions of this Section shall not be construed to prohibit the selling by outcry of merchandise, food and beverages at licensed sporting events, parades, fairs, circuses and other similar licensed public entertainment events.

SECTION 46.2.3. DRUMS.

It shall be unlawful for any person to use any drum or other instrument or device of any kind for the purpose of attracting attention by the creation of noise within the City. This Section shall not apply to any person who is a participant in a school band or duly licensed parade or who has been otherwise duly authorized by the City to engage in such conduct.

SECTION 46.2.4. SCHOOLS, HOSPITALS AND CHURCHES.

It shall be unlawful for any person to create any noise on any street, sidewalk or public place adjacent to any school, institution of learning or church while the same is in use or adjacent to any hospital, which noise unreasonably interferes with the workings of such institution or which disturbs or unduly annoys patients in the hospital, provided conspicuous signs are displayed in such streets, sidewalks or public place indicating the presence of a school, church or hospital.

SECTION 46.2.5. ANIMALS AND FOWL.

No person shall keep or maintain, or permit the keeping of upon any premises owned, occupied or controlled by such person, any animal or fowl otherwise permitted to be kept which, by any sound, cry or behavior shall cause annoyance or discomfort to a reasonable person of normal sensitiveness on any residential land.

SECTION 46.2.6. MACHINERY, EQUIPMENT, FANS AND AIR CONDITIONING.

It shall be unlawful for any person to operate any machinery, equipment, pump, fan, air conditioning apparatus or similar mechanical device in any manner so as to create any noise which would cause the noise level at the property line of any residential land to exceed the ambient noise level by more than five

(5) decibels.

SECTION 46.2.7. OIL PRODUCTION EQUIPMENT.

(Added by O-2528)

It shall be unlawful for any person to operate, or cause to be operated any oil production equipment in any manner so as to create any noise which would cause the noise level at the nearest property line of any residential land to exceed the ambient noise level by more than five (5) decibels; provided, however, that the aforesaid provisions of this Section shall not apply to oil production equipment being used in the drilling, redrilling, deepening, repair, maintenance or abandonment of an oil well.

ARTICLE 3 - CONSTRUCTION

SECTION 46.3.1. CONSTRUCTION OF BUILDINGS AND PROJECTS.

(Amended by O-3712)

a) It shall be unlawful for any person within the City of Torrance to operate power construction tools, equipment, or engage in the performance of any outside construction or repair work on buildings, structures, or projects in or adjacent to a residential area involving the creation of noise beyond 50 decibels (db) as measured at property lines, except between the hours of 7:30 A.M. to 6:00 P.M. Monday through Friday and 9:00 A.M. to 5:00 P.M. on Saturdays. Construction shall be prohibited on Sundays and Holidays observed by City Hall. An exception exists between the hours of 10:00 A.M. to 4:00 P.M. for homeowners that reside at the property.

b) The Community Development Director may allow expanded hours and days of construction if unusual circumstances and conditions exist. Such requests must be made in writing and must receive approval by the Director prior to any expansion of the hour and day restrictions listed above.

c) Every construction project requiring Planning Commission review or considered to be a significant remodel as defined by Section 231.1.2, shall be required to post an information board along the front property line that displays the property owner's name and contact number, contractor's name and contact number, a copy of TMC Section 46.3.1, a list of any special conditions, and the Code Enforcement phone number where violations can be reported.

d) Properties zoned as commercial, industrial or within an established redevelopment District, are exempted from the above day and hour restrictions if a minimum buffer of 300 feet is maintained from the subject property's property line to the closest residential property. The Community Development Director, may, however, revoke such exemption for a particular project if the noise level exceeds 50 decibels (db) at the property line of a residential property beyond the 300 linear foot buffer.

e) Heavy construction equipment such as pile drivers, mechanical shovels, derricks, hoists, pneumatic hammers, compressors or similar devices shall not be operated at any time, within or adjacent to a residential area, without first obtaining from the Community Development Director permission to do so. Such request for permission shall include a list and type of equipment to be used, the requested hours and locations of its use, and the applicant shall be required to show that the selection of equipment and construction techniques has been based on minimization of noise within the limitations of such equipment as is commercially available or combinations of such equipment and auxiliary sound barriers. Such permission to operate heavy construction equipment will be revoked if operation of such equipment is not in accordance to approval. No permission shall be required to perform emergency work as defined in Article 1 of this Chapter.

SECTION 46.3.2. OPERATION OF OIL EQUIPMENT.

(Added by O-2528)

a) It shall be unlawful for any person to operate machinery or power tools for the repair, maintenance or abandonment of oil well equipment on Sundays and legal holidays and, except between the hours of 7:00 A.M. and 8:00 P.M., on any other day; provided, however, that the provisions of this subsection shall not apply to any well, the surface of which is three hundred (300) or more feet from any dwelling.

b) It shall be unlawful for any person to conduct oil drilling or redrilling operations other than circulation of mud, on Sundays and legal holidays and, except between the hours of 7:00 A.M. and 9:00 P.M., on any other day; provided, however, that the provisions of this subsection shall not apply to any well the surface of which is three hundred (300) or more feet from any dwelling.

c) It shall be unlawful for any person to operate machinery or power tools for the repair, maintenance or abandonment of oil well equipment or to conduct oil well drilling or redrilling operations at any time within three hundred (300) feet of any dwelling without first obtaining from the Director of Building and Safety permission to do so. Such request for permission shall include a list and type of equipment to be used, the requested hours and locations of its use. The Director of Building and Safety shall issue such permit only if the applicant demonstrates to the reasonable satisfaction of the Director that the selection of equipment and construction techniques has been based on minimization of noise within the limitations of such equipment as is commercially available or combinations of such equipment and auxiliary sound barriers or acoustical sound blankets as provided in Section 46.3.3. Such permission to operate oil well equipment shall be revoked if such equipment is not operated and construction is not accomplished in accordance with the conditions of approval. No permission shall be required to perform emergency work as defined in Article 1 of this Chapter. The person performing such emergency work shall first notify the occupants of adjacent residences and the Torrance Police Department as to the nature and extent of the work to be performed.

SECTION 46.3.3. ACOUSTICAL BLANKETS.

(Added by O-2528)

Acoustical blankets shall be made of fibrous glass insulation 1-1/2 inches thick, 0.50 pounds per cubic foot density, 0.63 pounds per square foot weight, .00010 to .00015 fibre diameter (inches) with phenolic binder having a temperature limit of 450 degrees F. sewed between layers of fire retardant vinyl fibre glass cloth, 15X17 ounces per square yard sewed with dacron thread D-92 with stitches not more than six (6) to the inch. The lacing cord shall be flat vinyl coated tape composed of fibrous glass yard braided, heat set and bonded. The tape shall have a 90 pound tensile strength. Grommets shall be No. 4 brass. Provided, however, that there may be substituted for the aforesaid specifications an acoustical blanket which in the opinion of the Director of Building and Safety is equal to sound-proofing ability and fire resistive qualities to the aforesaid specifications.

ARTICLE 4 - VEHICLES

SECTION 46.4.1. VEHICLE REPAIRS.

It shall be unlawful for any person within the City of Torrance to repair, rebuild or test any motor vehicle at any time in such a manner that a reasonable person of normal sensitiveness located on residential land is caused discomfort or annoyance by reason of the noise produced therefrom.

SECTION 46.4.2. MOTOR DRIVEN VEHICLES.

It shall be unlawful for any person to operate any motor driven vehicle within the City in such a manner that a reasonable person of normal sensitiveness residing in the area is caused discomfort or annoyance; provided, however, that any such vehicle which is operated upon any public highway, street or right-of-way shall be excluded from the provisions of this Section, provided the provisions of the California Motor Vehicle Code, Sections 23130, 27150 and 27151 are complied with.

ARTICLE 5 - AMPLIFIED SOUND (Amended by O-3360)

SECTION 46.5.1. PURPOSE.

The Council enacts the provisions of this Article for the sole purpose of securing and promoting the public health, comfort, safety, and welfare for its citizenry. While recognizing that the use of sound amplifying equipment is protected by the constitutional rights of freedom of speech and assembly, the

Council nevertheless feels obligated to reasonably regulate the use of sound amplifying equipment in order to protect the correlative constitutional rights of the citizens of this community to privacy and freedom from public nuisance of loud and unnecessary noise.

SECTION 46.5.2. APPLICATION REQUIRED.

It shall be unlawful for any person, other than personnel of law enforcement or governmental agencies, to install, use or operate within the City a loudspeaker or sound amplifying equipment in a fixed or movable position or mounted upon any sound truck for the purposes of giving instructions, directions, talks, addresses, lectures or transmitting music to any persons or assemblages of persons in or upon any street, alley, sidewalk, park, place or public property without first filing an application and obtaining a permit therefor as set forth in Division 3 of this Code.

SECTION 46.5.3. REGULATIONS.

The commercial and noncommercial use of sound amplifying equipment shall be subject to the following regulations:

- a) The only sounds permitted shall be either music or human speech, or both.
- b) The operation of sound amplifying equipment shall only occur between the hours of 9:00 A.M. and 9:00 P.M. each day except on Sundays and legal holidays. The operation of sound amplifying equipment for noncommercial purposes on Sundays and legal holidays shall only occur between the hours of 10:00 A.M. and 6:00 P.M.
- c) No sound emanating from sound amplifying equipment shall exceed fifteen (15) dBA above the ambient as measured at any property line.
- d) Notwithstanding the provisions of subsection c) of this Section, sound amplifying equipment shall not be operated within two hundred (200) feet of churches, schools or hospitals.
- e) In any event, the volume of sound shall be so controlled that it will not be unreasonably loud, raucous, jarring, disturbing or a nuisance to reasonable persons of normal sensitiveness within the area of audibility.

ARTICLE 6 - TRAIN HORNS AND WHISTLES

SECTION 46.6.1. EXCESSIVE SOUND PROHIBITED.

It shall be unlawful for any person to operate or sound or cause to be operated or sounded, between the hours of 10:00 P.M. of one day and 7:00 A.M. of the next day, a train horn or train whistle which creates noise in excess of ninety (90) db at any place or point three hundred (300) feet or more distant from along a line normal to the direction of travel of the source of such sound.

ARTICLE 7 - GENERAL NOISE REGULATIONS

SECTION 46.7.1. GENERAL NOISE REGULATIONS.

Notwithstanding any other provision of this Chapter and in addition thereto, it shall be unlawful for any person to willfully make or continue, or cause to be made or continued, any loud, unnecessary or unusual noise which disturbs the peace or quiet of any neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing in the area.

SECTION 46.7.2. NOISE LIMITS.

To provide for methodical enforcement and to give reasonable notice of the performance standards to be met, the foregoing intent is expressed in the following numerical standards. For purposes of this Chapter,

the City is divided into regions as set forth in Exhibit A.

a) Noise Limits on Residential Land. It shall be unlawful for any person within the City of Torrance (wherever located) to produce noise in excess of the following levels as received on residential land owned or occupied by another person within the designated regions. In addition to the noise limits stated herein, the noise limits set forth in Sec. 46.7.2.b) shall also be complied with.

1) For noise receivers located on residential land, for measurement positions five hundred (500) feet or more distant from the boundaries of Regions 1 and 2, the following limits apply:

REGION (in which noise receiver is located)	NOISE LEVEL, db Day	NOISE LEVEL, db Night
3	50	45
4	55	50

2) For noise receivers located on residential land, for positions within five hundred (500) feet from the boundary of Region 1 or 2, the following limits apply:

Five (5) dB above the limits set forth in Section 46.7.2.a) 1 above, or 5 dB above the ambient noise level, whichever is the lower number.

b) Noise Limits at Industrial and Commercial Boundaries:

1) Noise Sources in Region 1: It shall be unlawful for any person in Region 1 to produce noise levels at the boundary of Region 1 in excess of 70 dB during the day or 65 dB during the night.

2) Noise Sources in Region 2: It shall be unlawful for any person in Region 2 to produce noise levels at the boundary of Region 2 in excess of 60 dB during the day or 55 dB during the night.

3) Noise Sources in All Remaining Industrial Use Land: It shall be unlawful for any person on industrial use land outside Region 1 and 2 to produce noise levels at his own property boundary in excess of 60 dB during the day or 55 dB during the night.

4) Noise Sources on All Land Use for Commercial Purposes: It shall be unlawful for any person on land used for commercial purposes to produce noise levels at his own property boundary in excess of 60 dB during the day or 55 dB during the night.

In addition to the noise limits set forth herein (Sec. 46.7.2.b), the noise limits set forth in Sec. 46.7.2.(a) shall also be complied with.

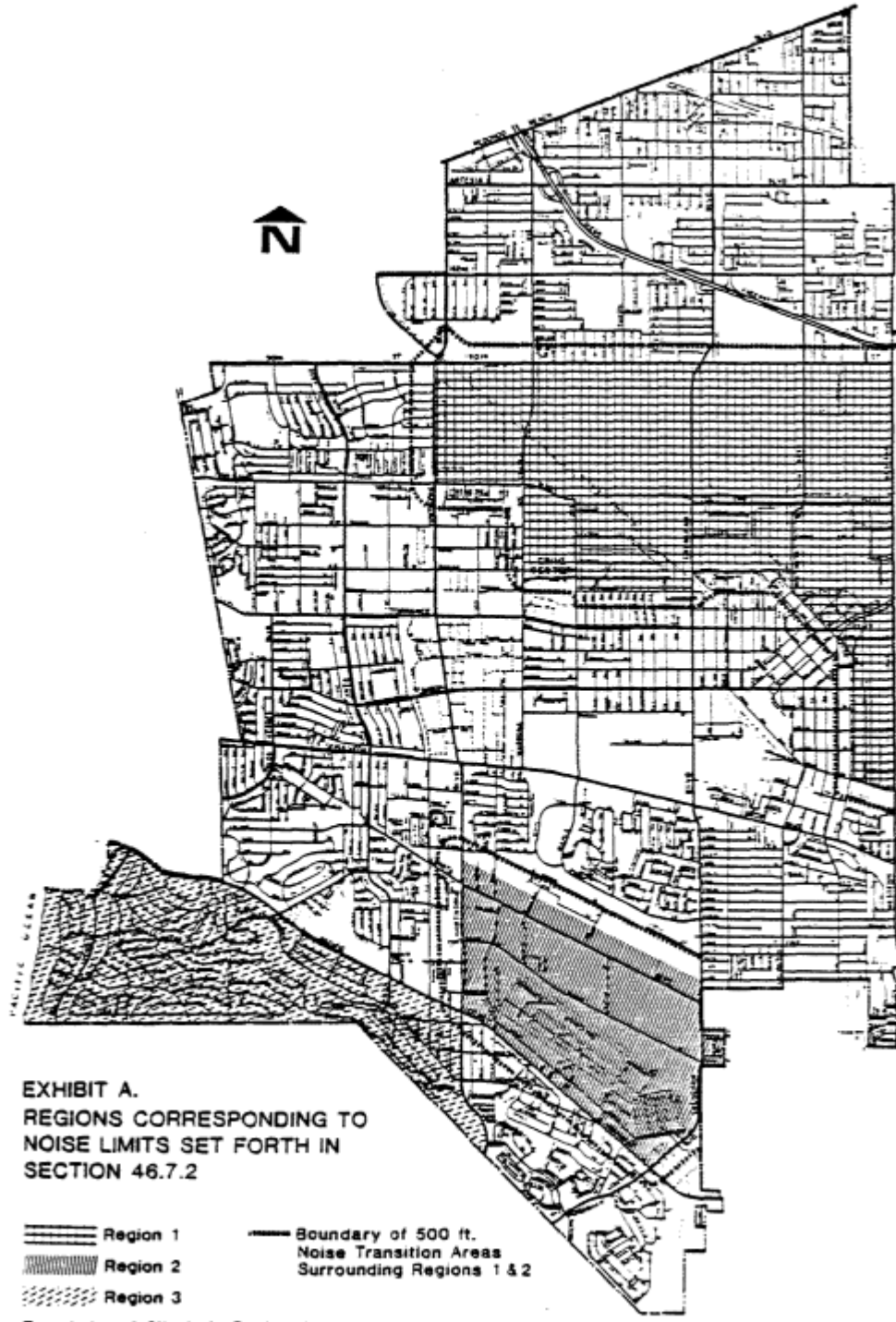
c) Corrections to the Noise Limits: The numerical limits given in Sec. 46.7.2.(a) and (b) shall be adjusted by addition of the following corrections where appropriate.

Noise Conditions	Correction to the Limits, decibels
1. Noise contains a steady, audible tone, such as a whine, screech or hum	-5
2. Noise is a repetitive impulsive noise, such as hammering or riveting	-5
3. If the noise is not continuous, one of the following corrections to the limits shall be applied:	
a) Noise occurs less than 5 hours per day or less than 1 hour per night	+5
b) Noise occurs less than 90 minutes per day or less than 20 minutes per night	+10
c) Noise occurs less than 30 minutes per day or less than 6 minutes per night	+15
4. Noise occurs on Sunday morning (between 12:01 A.M. and 12:01 P.M. Sunday)	-5

SECTION 46.7.3. EXCEPTIONS.

The following noise sources are specifically excluded from the provisions of this Chapter:

- 1) Aircraft in flight.
- 2) Motor vehicles operating in accordance with Sec. 46.4.2. and in accordance with all the sections of the California Motor Vehicles Code.



**EXHIBIT A.
REGIONS CORRESPONDING TO
NOISE LIMITS SET FORTH IN
SECTION 46.7.2**

Region 1 Boundary of 500 ft.
Region 2 Noise Transition Areas
Region 3 Surrounding Regions 1 & 2
Remainder of City is in Region 4
Source: Torrance Municipal Code

ARTICLE 8 - AIRPORT NOISE LIMITS (Added by O-2784)

SECTION 46.8.1. VIOLATIONS UNLAWFUL.

It shall be unlawful for any person to pilot or operate or permit to be piloted or operated an aircraft in violation of the provisions of Sections 46.8.8., 46.8.9. or 46.8.14.

SECTION 46.8.2. EXTENDED AIRPORT BOUNDARIES DEFINED.

For the purposes of this Article, the term extended airport boundaries shall mean the area enclosed by Lomita Boulevard on the north, Crenshaw Boulevard on the east, Pacific Coast Highway on the south and Hawthorne Boulevard on the west.

SECTION 46.8.3. TAKE-OFF DEFINED.

(Amended by O-3270)

For the purposes of this Article, take-off shall mean the flight of an aircraft departing Torrance Airport from the time it commences on its departure on the runway.

SECTION 46.8.4. LANDING DEFINED.

(Amended by O-3270)

For the purposes of this Article, landing shall mean the flight of an aircraft from the time it begins its landing approach until it is taxied from the runway.

SECTION 46.8.5. SOUND EXPOSURE LEVEL.

For the purposes of this Article, the sound exposure level is the level of sound accumulated during a given event, with reference to a duration of one second. More specifically, sound exposure level, in decibels, is the level of the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on the reference pressure of 20 micronewtons per square meter and reference duration of one second.

SECTION 46.8.6. SENEL.

For the purposes of this Article, the single event noise exposure level (SENEL), in decibels, is the sound exposure level of a single event, such as an aircraft fly-by, measured over the time interval between the initial and final times for which the sound level of a single event exceeds the threshold sound level. For implementation of the provisions of this Article, the threshold noise level shall be at least 20 decibels below the numerical value of the single event noise exposure level limits specified in Sections 46.8.8. or 46.8.9. as the case may be.

SECTION 46.8.7. MAXIMUM SOUND LEVEL DEFINED.

For the purposes of this Article, the maximum sound level, in decibels, is the highest sound level reached at any instant of time during the time interval used in measuring the sound exposure level of a single event.

SECTION 46.8.8. AIRCRAFT NOISE LIMIT.

Except as provided in Section 46.8.10., no aircraft taking off from or landing on the Torrance Municipal Airport may exceed a single event noise exposure level (SENEL) of 88 dBA or a maximum sound level of

82 dBA measured at ground level outside the extended Airport boundaries.

SECTION 46.8.9. AIRCRAFT NOISE LIMIT AT NIGHT.

(Amended by O-3284)

Notwithstanding the provisions of Section 46.8.8., except as provided in Section 46.8.10., no aircraft taking off from or landing on the Torrance Municipal Airport between the hours of 10:00 P.M. of any day and 7:00 A.M. of the following morning on any Monday through Friday inclusive, nor between the hours of 10:00 P.M. each night and 8:00 A.M. of the following morning on any Saturday or Sunday inclusive, nor on any of the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day; provided, however, that if any such holiday falls on a Saturday or Sunday, the observance of which is then moved to the preceding Friday, or the following Monday, then such Friday or Monday shall be considered to be a holiday for purposes of this section, may exceed a single event noise exposure level (SENEL) of 82 dBA or a maximum sound level of 76 dBA measured at ground level outside the extended Airport boundaries.

SECTION 46.8.10. AIRCRAFT NOISE EXEMPTION.

(Amended by O-3382)

The following categories of aircraft shall be exempt from the provisions of Sections 46.8.8. and 46.8.9.:

- 1) Aircraft operated by the United States of America or the State of California;
- 2) Law enforcement, emergency, fire or rescue aircraft operated by any county or city of said state;
- 3) Aircraft used for emergency purposes during an emergency that has been officially proclaimed by competent authority pursuant to the laws of the United States, said State or the City;
- 4) Civil Air Patrol aircraft when engaged in actual search and rescue missions;
- 5) Aircraft engaged in landings or takeoffs while conducting tests under the direction of the Airport Manager in an attempt to rebut the presumption of aircraft noise violation pursuant to the provisions of Section 46.8.13;
- 6) Aircraft while participating in a City-sponsored event approved by City Council.

SECTION 46.8.11. CULPABILITY OF INSTRUCTOR PILOT.

In the case of any training flight in which both an instructor pilot and a student pilot are in the aircraft which is flown in violation of any of the provisions of this Article, the instructor pilot shall be rebuttably presumed to have caused such violation.

SECTION 46.8.12. CULPABILITY OF AIRCRAFT OWNER OR LESSEE.

For purposes of this Article, the beneficial owner of an aircraft shall be presumed to be the pilot of the aircraft with authority to control the aircraft's operations, except that where the aircraft is leased, the lessee shall be presumed to be the pilot. Such presumption may be rebutted only if the owner or lessee identifies the person who in fact was the pilot at the time of the asserted violation.

SECTION 46.8.13. DENIAL OF USE OF AIRPORT.

(See Section 51.7.2. et seq. concerning denial of the use of the Airport for repeated violations of this Article.)

SECTION 46.8.14. PRESUMPTION OF AIRCRAFT NOISE VIOLATION.

In the event that the Airport Manager determines to his reasonable satisfaction that available published noise measurements for a particular type or class of aircraft indicate that it cannot meet the noise levels

set forth in Sections 46.8.8. and 46.8.9., it shall be presumed that operation of such aircraft will result in violation of the provisions of Sections 46.8.8. and 46.8.9. and such aircraft will not be permitted to land on, tie down on, be based at or take off from the Torrance Municipal Airport, except in emergencies as set forth in Section 51.4.2.; provided, however, that the owner or operator of such aircraft shall be entitled to rebut such presumption to the reasonable satisfaction of the Airport Manager by furnishing evidence to the contrary.

SECTION 46.8.15. DESIGNATED ENFORCEMENT OFFICIAL.

The Director of Building and Safety, the Administrator of Environmental Quality, the Environmental Quality Officers and such other City employees as are designated by the Director of Building and Safety with the approval of the City Manager, all acting under the direction and control of the City Manager, shall have the duty and authority to enforce the provisions of this Article, pursuant to the provisions of Section 836.5 of the State Penal Code.

[<< previous](#) | [next >>](#)

Freight Train Vibration

Distance from Railroad

25

VdB

90

FTA Frequent Event Threshold for Residences where people normally sleep

72

Feet

Distance from 72 VdB Contour

200

Source: FTA 2006. Figure 10-1, Generalized Ground Surface Vibration Curves.

Assumes RMS velocity in decibels (VdB) is 1 micro-inch/second (10^{-6})

Relationship of PPV to RMS velocity is expressed in terms of the crest factor

Crest factor: is the ratio of PPV amplitude to RMS amplitude

FTA assumes a crest factor of 4 (representing a PPV-RMS difference of 12 VdB)

Table 1 Summary of Ambient Noise Measurements in the City of Torrance

Number	Location	Date	Time Period	Noise Source	Noise Level Exceeded for More Than... (minutes/hour)				Maximum Noise (dBA Lmax)	Average Noise (dBA Leq)	CNEL
					30 (L50)	15 (L25)	5 (L8)	1 (L2)			
1	3456 Redondo Beach Boulevard	3/9/2006	1:23 PM to 1:44 PM	Traffic on Redondo Beach	67.5	69.8	71.9	73.9	80.9	68.6	
2	Corner of Prairie and 177th	3/2/2006	1:58 PM to 2:28 PM	Traffic on Prairie	67.2	69.1	71.0	73.2	78.5	68.0	
3	3830 176th Street	3/1/2006	24 hours	Traffic on I-405	56.4-67.8	58.4-68.6	59.7-69.4	61.0-69.9	65.0-78.6	57.2-67.9	70.1
4	Corner of Crenshaw and 171st	3/2/2006	12:42 PM to 1:03 PM	Traffic on Crenshaw	67.0	70.4	72.5	74.6	81.4	68.8	
5	Corner of Artesia and Wilton	3/9/2006	12:22 PM to 12:42 PM	Traffic on Artesia	65.5	68.1	70.5	72.6	79.8	66.9	
6	3635 190th Street	5/23/2006	24 hours	Traffic on 190th and Refinery Traffic on Van Ness and	48.9-64.7	51.0-66.5	57.2-68.3	61.9-70.7	69.4-92.3	53.4-66.4	67.3
7	18832 Van Ness Avenue	3/8/2006	24 hours	Honeywell Traffic on Van Ness and	49.5-60.6	51.6-61.5	53.5-62.5	54.6-64.9	57.9-85.2	51.1-60.8	63.2
7a	18736 Van Ness Avenue	5/19/2006	10:17 AM to 2:00 PM	Honeywell	65.0-65.2	67.5-67.8	70.1-70.5	72.0-72.6	77.3-93.9	66.6-67.8	
8	4504 Deelane Street	3/8/2006	24 hours	Traffic on Hawthorne	47.9-64.5	53.4-65.9	57.7-67.4	60.6-68.8	65.9-88.6	52.8-64.8	66.3
9	4712 Torrance Boulevard	3/14/2006	11:41 AM to 12:01 AM	Traffic on Torrance	66.7	67.3	68.7	70.2	74.3	65.2	
10	3322 Sonoma Street	3/9/2006	3:02 PM to 3:24 AM	Traffic on Madrona	65.8	69.6	72.3	74.0	79.0	68.0	
11	Corner of Watson and Carson	3/9/2006	3:49 PM to 4:10 PM	Traffic on Carson	63.6	65.5	67.3	69.3	74.7	64.3	
12	Corner of 226th and Hawthorne	3/14/2006	12:56 PM to 1:16 PM	Traffic on Hawthorne	72.0	73.8	75.3	77.0	83.7	72.5	
13	2273 Nadine Circle	5/23/2006	24 hours	Ambient	39.3-55.9	40.1-60.1	41.5-63.9	46.2-67.3	62.8-78.8	43.1-59.7	58.1
14	22710 Date Avenue	3/1/2006	24 hours	Traffic on Crenshaw	41.4-62.6	49.9-65.5	56.5-67.3	60.5-68.8	68.9-80.0	51.5-63.8	65.9
15	Corner of Gramercy and Sepulveda	3/2/2006	3:00 PM to 3:20 PM	Traffic on Sepulveda	69.1	74.1	76.2	77.7	86.8	72.0	
16	1828 Calamar Street	5/1/2006	24 hours	BNSF Railroad	28.6-50.7	29.9-57.1	32.2-61.6	34.7-67.9	43.4-99.3	29.7-70.2	64.1
17	Corner of Harrlee and PCH	3/14/2006	1:36 PM to 1:56 PM	Traffic on PCH	61.2	62.9	64.9	68.2	81.6	62.7	
18	3932 231st Place	5/1/2006	24 hours	Torrance Airport	32.7-53.5	33.3-59.8	34.9-65.1	36.6-68.4	42.2-76.6	34.1-59.8	52.4
19	Corner of 236th and Western	5/8/2006	24 hours	Traffic on Western	41.4-63.7	49.2-65.8	53.6-67.9	57.1-69.3	65.6-81.0	49.0-64.5	66.0
20	3241 Cricklewood Street	5/1/2006	24 hours	Traffic on PCH and Airport	31.5-60.1	35.9-62.6	48.7-66.3	55.7-70.3	64.9-83.6	44.7-62.6	63.3

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Average Daily Traffic 2005	CNEL @ 50'				Average Daily Traffic 2005	CNEL @ 50'	CNEL @ 50'				Increase from Existing dBA CNEL
		From Near Lane C/L	Distance to Existing Contours					From Near Lane C/L	Distance to Existing Contours			
			60dB	65dB	70dB			60dB	65dB	70dB		
182nd Street												
West City Limits to Hawthorne Boulevard	13,340	65.5	143	56	---	15,341	66.0	155	62	---	0.5	
Hawthorne Boulevard to Prairie Avenue	9,510	64.0	110	---	---	10,937	64.5	120	---	---	0.5	
Prairie Avenue to Yukon Avenue	17,568	66.5	170	69	---	20,203	67.0	185	75	---	0.5	
Yukon Avenue to Crenshaw Boulevard	18,523	66.5	170	69	---	21,301	67.5	200	83	---	1.0	
Crenshaw Boulevard to Van Ness Avenue	14,585	65.5	143	56	---	16,773	66.5	170	69	---	1.0	
Van Ness Avenue to Wester Avenue	16,041	66.0	155	62	---	18,447	66.5	170	69	---	0.5	
190th Street												
West City Limits to Anza Avenue	36,912	69.5	278	120	---	42,449	70.0	300	130	50	0.5	
Anza Avenue to Hawthorne Boulevard	36,281	70.5	320	143	56	41,723	71.0	340	155	62	0.5	
Hawthorne Boulevard to Prairie Avenue	31,271	70.5	320	143	56	35,962	71.0	340	155	62	0.5	
Prairie Avenue to Yukon Avenue	42,680	72.0	395	185	75	49,082	72.5	428	200	83	0.5	
Yukon Avenue to Crenshaw Boulevard	50,466	73.0	460	215	90	58,036	73.5	490	235	100	0.5	
Crenshaw Boulevard to Van Ness Avenue	35,737	71.0	340	155	62	41,098	71.5	368	170	69	0.5	
Van Ness Avenue to Western Avenue	38,899	71.5	368	170	69	44,734	72.0	395	185	75	0.5	
223rd Street												
West of Western Avenue	15,395	67.0	185	75	---	17,704	67.5	200	83	---	0.5	
235th Street												
Sepulveda Boulevard to Nadine Circle	11,285	66.0	155	62	---	12,978	66.5	170	69	---	0.5	
Nadine Circle to Juniper Avenue	11,991	66.0	155	62	---	13,790	66.5	170	69	---	0.5	
Juniper Avenue to Crenshaw Boulevard	11,832	66.0	155	62	---	13,607	66.5	170	69	---	0.5	
Crenshaw Boulevard to Arlington Avenue	6,601	60.5	56	---	---	7,591	61.0	62	---	---	0.5	
Arlington Avenue to Cabrillo Avenue	4,581	59.0	---	---	---	5,268	59.5	---	---	---	0.5	
Anza Avenue												
190th Street to Del Amo Boulevard	25,750	68.0	215	90	---	29,613	68.5	235	100	---	0.5	
Del Amo Boulevard to Torrance Boulevard	28,175	69.5	278	120	---	32,401	70.0	300	130	50	0.5	
Torrance Boulevard to Lenore Street	25,682	68.0	215	90	---	29,534	68.5	235	100	---	0.5	
Lenore Street to Carson Street	25,214	68.0	215	90	---	28,996	68.5	235	100	---	0.5	
Carson Street to Sepulveda Boulevard	25,993	68.0	215	90	---	29,892	68.5	235	100	---	0.5	
Sepulveda Boulevard to Calle Mayor	29,527	67.5	200	83	---	33,956	68.5	235	100	---	1.0	
Calle Mayor to Pacific Coast Highway	12,658	64.0	110	---	---	14,557	64.5	120	---	---	0.5	
Arlington Avenue												
Carson Street to Sepulveda Boulevard	6,455	62.5	83	---	---	7,423	63.0	90	---	---	0.5	
Sepulveda Boulevard to 235th Street	16,113	68.5	235	100	---	18,530	69.0	255	110	---	0.5	
Artesia Boulevard												
Hawthorne Boulevard to Prairie Avenue	32,855	71.5	368	170	69	37,783	72.5	428	200	83	1.0	
Prairie Avenue to Yukon Avenue	39,180	72.5	428	200	83	45,057	73.0	460	215	90	0.5	
Yukon Avenue to Crenshaw Boulevard	28,756	71.0	340	155	62	33,069	72.0	395	185	75	1.0	
Crenshaw Boulevard to Van Ness Avenue	31,805	71.5	368	170	69	36,576	72.0	395	185	75	0.5	
Van Ness Avenue to Western Avenue	35,516	72.0	395	185	75	40,843	72.5	428	200	83	0.5	
Cabrillo Avenue												
Torrance Boulevard to Carson Street	13,122	62.0	75	---	---	15,090	63.0	90	---	---	1.0	
Carson Street to Sepulveda Boulevard	8,891	60.5	56	---	---	10,225	61.0	62	---	---	0.5	
Sepulveda Boulevard to 235th Street	5,992	62.0	75	---	---	6,891	62.5	83	---	---	0.5	
Calle Mayor												
East of Palos Verdes Boulevard	5,855	62.0	64	---	---	6,733	62.5	67	---	---	0.5	
West of Newton Street	11,738	65.0	130	50	---	13,499	65.5	143	56	---	0.5	
Newton Street to Pacific Coast Highway	10,249	64.5	120	---	---	11,786	65.0	130	50	---	0.5	
Pacific Coast Highway to Anza Avenue	15,240	65.0	130	50	---	17,526	65.5	143	56	---	0.5	
Carson Street												
Palos Verdes Boulevard to Anza Avenue	5,855	63.0	90	---	---	6,733	63.5	100	---	---	0.5	
Anza Avenue to Hawthorne Boulevard	13,791	65.5	143	56	---	15,860	66.0	155	62	---	0.5	
Hawthorne Boulevard to Madrona Avenue	29,335	69.5	278	120	---	33,735	70.5	320	143	56	1.0	
Madrona Avenue to Maple Avenue	28,534	68.5	235	100	---	32,814	69.0	255	110	---	0.5	
Maple Avenue to Crenshaw Boulevard	30,441	69.0	255	110	---	35,007	69.5	278	120	---	0.5	
Crenshaw Boulevard to Arlington Avenue	31,225	69.5	278	120	---	35,909	70.0	300	130	50	0.5	
Arlington Avenue to Cabrillo Avenue	31,703	68.0	215	90	---	36,458	68.5	235	100	---	0.5	
Cabrillo Avenue to Western Avenue	33,613	68.0	215	90	---	38,655	69.0	255	110	---	1.0	
Crenshaw Boulevard												
Redondo Beach Boulevard to Artesia Boulevard	31,251	71.0	340	155	62	35,939	71.5	368	170	69	0.5	
Artesia Boulevard to 182nd Street	35,093	71.5	368	170	69	40,357	72.0	395	185	75	0.5	
182nd Street to 190th Street	58,156	73.0	460	215	90	66,879	73.5	490	235	100	0.5	
190th Street to Del Amo Boulevard	48,649	73.0	460	215	90	55,946	73.5	490	235	100	0.5	
Del Amo Boulevard to Maricopa Street	43,328	72.5	428	200	83	49,827	73.5	490	235	100	1.0	
Maricopa Street to Torrance Boulevard	43,000	72.5	428	200	83	49,450	73.0	460	215	90	0.5	
Torrance Boulevard to Ca]	48,554	73.0	460	215	90	55,837	74.0	520	255	110	1.0	
Carson Street to Sepulveda Boulevard	59,554	74.0	520	255	110	68,487	75.0	600	300	130	1.0	
Sepulveda Boulevard to 235th Street	52,664	73.5	490	235	100	60,564	74.0	520	255	110	0.5	
235th Street to Lomita Boulevard	52,300	73.5	490	235	100	60,145	74.0	520	255	110	0.5	
Lomita Boulevard to Skypark Drive	45,663	73.5	490	235	100	52,512	74.5	560	278	120	1.0	
Skypark Drive to Pacific Coast Highway	49,031	73.0	460	215	90	56,386	74.0	520	255	110	1.0	
Pacific Coast Highway to South City Limit	34,384	72.5	428	200	83	39,542	73.0	460	215	90	0.5	

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	CNEL @ 50'					CNEL @ 50'					Increase from Existing dBA CNEL
	Average Daily Traffic 2005	From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet			Average Daily Traffic 2005	From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet			
			60dB	65dB	70dB			60dB	65dB	70dB	
Del Amo Boulevard											
West City Limit to Entradero Avenue	15,511	67.0	185	75	---	17,838	67.5	200	83	---	0.5
Entradero Avenue to Anza Avenue	17,650	68.5	235	100	---	20,298	69.0	255	110	---	0.5
Anza Avenue to Hawthorne Boulevard	18,316	68.0	215	90	---	21,063	68.5	235	100	---	0.5
Hawthorne Boulevard to Prairie Avenue	20,716	68.5	235	100	---	23,823	69.0	255	110	---	0.5
Prairie Avenue to Maple Avenue	10,973	65.5	143	56	---	12,619	66.5	170	69	---	1.0
Crenshaw Boulevard to Van Ness Avenue	9,652	64.0	110	---	---	11,100	64.5	120	---	---	0.5
Van Ness Avenue to Western Avenue	9,481	64.0	110	---	---	10,903	64.5	120	---	---	0.5
Emerald Street											
Henrietta Street to Victor Street	700	52.0	---	---	---	805	52.5	---	---	---	0.5
Victor Street to Anza Avenue	3,653	58.0	---	---	---	4,201	59.0	---	---	---	1.0
Anza Avenue to Hawthorne Boulevard	5,778	60.0	50	---	---	6,645	60.5	56	---	---	0.5
East of Hawthorne Boulevard	7,220	61.0	62	---	---	8,303	61.5	69	---	---	0.5
West of Prairie Avenue	5,532	60.0	50	---	---	6,362	60.5	56	---	---	0.5
Entradero Street											
190th Street to Del Amo Boulevard	3,864	58.5	---	---	---	4,444	59.0	---	---	---	0.5
Hawthorne Boulevard											
Redondo Beach Boulevard to Artesia Boulevard	54,227	71.5	368	170	69	62,361	72.0	395	185	75	0.5
Artesia Boulevard to 182nd Street	64,510	72.5	428	200	83	74,187	73.0	460	215	90	0.5
182nd Street to 190th Street	64,415	72.0	395	185	75	74,077	73.0	460	215	90	1.0
190th Street to Del Amo Boulevard	66,561	73.5	490	235	100	76,545	74.5	560	278	120	1.0
Del Amo Boulevard to Torrance Boulevard	65,625	73.5	490	235	100	75,469	74.5	560	278	120	1.0
Torrance Boulevard to Carson Street	69,040	73.5	490	235	100	79,396	74.5	560	278	120	1.0
Carson Street to Sepulveda Boulevard	63,226	73.5	490	235	100	72,710	74.0	520	255	110	0.5
South of Sepulveda Boulevard	70,912	74.0	520	255	110	81,549	74.5	560	278	120	0.5
North of Lomita Boulevard	67,446	73.5	490	235	100	77,563	74.5	560	278	120	1.0
Lomita Boulevard to Skypark Drive	54,008	72.5	428	200	83	62,109	73.5	490	235	100	1.0
Skypark Drive to Pacific Coast Highway	48,832	72.0	395	185	75	56,157	73.0	460	215	90	1.0
Pacific Coast Highway to South City Limit	38,342	71.0	340	155	62	44,093	71.5	368	170	69	0.5
Henrietta Street											
Torrance Boulevard to Del Amo Boulevard	4,153	61.5	69	---	---	4,776	62.5	83	---	---	1.0
Lomita Boulevard											
Anza Avenue to Hawthorne Boulevard	14,908	66.0	155	62	---	17,144	66.5	170	69	---	0.5
Hawthorne Boulevard to Madison Street	36,422	72.0	395	185	75	41,885	72.5	428	200	83	0.5
Madison Street to Crenshaw Boulevard	35,502	72.5	428	200	83	40,827	73.0	460	215	90	0.5
Madison Street											
Lomita Boulevard to Pacific Coast Highway	13,511	65.5	80	54	---	15,538	66.0	82	57	---	0.5
Madrona Avenue											
Del Amo Boulevard to Torrance Boulevard	29,142	70.0	300	130	50	33,513	70.5	320	143	56	0.5
Torrance Boulevard to Carson Street	30,466	70.0	300	130	50	35,036	70.5	320	143	56	0.5
Carson Street to Sepulveda Boulevard	20,197	67.0	185	75	---	23,227	67.5	200	83	---	0.5
224th Street to 229th Street	220	51.5	---	---	---	253	51.5	---	---	---	0.0
Maple Avenue											
Del Amo Boulevard to Columbia Street	9,737	61.0	62	---	---	11,198	61.5	69	---	---	0.5
Columbia Street to Maricopa Street	10,013	61.0	62	---	---	11,515	61.5	69	---	---	0.5
Maricopa Street to Torrance Boulevard	10,639	62.5	83	---	---	12,235	63.0	90	---	---	0.5
Torrance Boulevard to Carson Street	8,150	61.5	69	---	---	9,373	62.0	75	---	---	0.5
Carson Street to Sepulveda Boulevard	9,490	61.0	57	---	---	10,914	61.5	61	---	---	0.5
Maricopa Street											
Maple Avenue to Crenshaw Boulevard	7,233	64.0	110	---	---	8,318	64.5	120	---	---	0.5
Newton Street											
Calle Mayor to Vista Montana	2,898	57.5	---	---	---	3,333	58.0	---	---	---	0.5
East of Vista Montana	6,253	60.5	56	---	---	7,191	61.0	62	---	---	0.5
West of Hawthorne Boulevard	3,678	58.5	---	---	---	4,230	59.0	---	---	---	0.5
Ocean Avenue											
Torrance Boulevard to Carson Street	1,474	55.0	---	---	---	1,695	55.5	---	---	---	0.5
Carson Street to Sepulveda Boulevard	424	50.5	---	---	---	488	51.0	---	---	---	0.5
Sepulveda Boulevard to Lomita Boulevard	7,920	61.5	69	---	---	9,108	62.0	75	---	---	0.5
Lomita Boulevard to Pacific Coast Highway	3,858	58.5	---	---	---	4,437	59.0	---	---	---	0.5
Pacific Coast Highway											
West of Palos Verdes Boulevard	26,780	70.5	320	143	56	30,797	71.5	368	170	69	1.0
Palos Verdes Boulevard to Calle Mayor	33,091	71.5	368	170	69	38,055	72.0	395	185	75	0.5
Calle Mayor to Ocean Avenue	33,564	71.5	368	170	69	38,599	72.5	428	200	83	1.0
Ocean Avenue to Hawthorne Boulevard	42,497	72.5	428	200	83	48,872	73.5	490	235	100	1.0
Hawthorne Boulevard to Madison Street	41,269	73.0	460	215	90	47,459	73.5	490	235	100	0.5
Madison Street to Crenshaw Boulevard	39,566	72.5	428	200	83	45,501	73.0	460	215	90	0.5
Crenshaw Boulevard to East City Limit	48,110	72.0	395	185	75	55,327	72.5	428	200	83	0.5
Palos Verdes Boulevard											
Torrance Boulevard to Sepulveda Boulevard	8,206	63.5	100	---	---	9,437	64.0	110	---	---	0.5
South of Sepulveda Boulevard	14,232	66.0	155	62	---	16,367	66.5	170	69	---	0.5
North of Pacific Coast Highway	13,964	64.5	120	---	---	16,059	65.0	130	50	---	0.5
Pacific Coast Highway to Catalina Avenue	21,496	66.5	170	69	---	24,720	67.0	185	75	---	0.5
Catalina Avenue to Calle Miramar	24,766	68.5	235	100	---	28,481	69.0	255	110	---	0.5
Calle Miramar to Calle Mayor	23,003	66.5	170	69	---	26,453	67.0	185	75	---	0.5
Calle Mayor to South City Limit	17,997	66.5	170	69	---	20,697	67.5	200	83	---	1.0

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	CNEL @ 50'					CNEL @ 50'					Increase from Existing dBA CNEL
	Average Daily Traffic 2005	From Near Lane C/L	Distance to Existing Contours From Near Lane Centerline, feet			Average Daily Traffic 2005	From Near Lane C/L	Distance to Existing Contours From Near Lane Centerline, feet			
			60dB	65dB	70dB			60dB	65dB	70dB	
Prairie Avenue											
Redondo Beach Boulevard to Artesia Boulevard	48,732	71.0	340	155	62	56,042	71.5	368	170	69	0.5
Artesia Boulevard to 182nd Street	56,200	71.5	368	170	69	64,630	72.0	395	185	75	0.5
182nd Street to 190th Street	38,000	71.0	340	155	62	43,700	71.5	368	170	69	0.5
190th Street to Del Amo Boulevard	50,126	73.0	460	215	90	57,645	74.0	520	255	110	1.0
Redondo Beach Boulevard											
Hawthorne Boulevard to I-405	21,260	67.0	185	75	---	24,449	68.0	215	90	---	1.0
I-405 to Yukon Avenue	34,270	70.5	320	143	56	39,411	71.0	340	155	62	0.5
Yukon Avenue to Crenshaw Boulevard	30,834	69.0	255	110	---	35,459	69.5	278	120	---	0.5
Crenshaw Boulevard to Van Ness Avenue	29,080	69.5	278	120	---	33,442	70.5	320	143	56	1.0
Rolling Hills Road											
Hawthorn Boulevard to Crenshaw Boulevard	9,879	64.0	---	---	---	11,361	64.5	---	---	---	0.5
Sepulveda Boulevard											
West of Palos Verdes Boulevard	14,940	67.0	86	64	---	17,181	67.5	88	67	---	0.5
Palos Verdes Boulevard to Anza Avenue	24,016	70.0	300	130	50	27,618	70.5	320	143	56	0.5
Anza Avenue to Hawthorne Boulevard	27,465	69.5	278	120	---	31,585	70.0	300	130	50	0.5
Hawthorne Boulevard to Madrona Avenue	42,431	71.5	368	170	69	48,796	72.0	395	185	75	0.5
Madrona Avenue to Maple Avenue	48,668	73.0	460	215	90	55,968	73.5	490	235	100	0.5
Maple Avenue to Crenshaw Boulevard	41,488	71.5	368	170	69	47,711	72.0	395	185	75	0.5
Crenshaw Boulevard to Arlington Avenue	47,517	72.0	395	185	75	54,645	72.5	428	200	83	0.5
Arlington Avenue to Cabrillo Avenue	48,541	73.0	460	215	90	55,822	73.5	490	235	100	0.5
Cabrillo Avenue to Western Avenue	47,053	72.0	395	185	75	54,111	72.5	428	200	83	0.5
Skypark Drive											
East of Madison Avenue	20,965	68.5	235	100	---	24,110	69.0	255	110	---	0.5
West of Crenshaw Boulevard	21,885	68.5	235	100	---	25,168	69.0	255	110	---	0.5
Spencer Street											
Victor Street to Anza Avenue	4,940	59.5	---	---	---	5,681	60.0	50	---	---	0.5
Anza Avenue to Hawthorne Boulevard	5,135	59.5	---	---	---	5,905	60.0	50	---	---	0.5
Torrance Boulevard											
West City Limit to Henrietta Street	27,000	69.5	278	120	---	31,050	70.0	300	130	50	0.5
Henrietta Street to Victor Street	32,181	70.5	320	143	56	37,008	71.0	340	155	62	0.5
Victor Street to Anza Avenue	32,148	71.0	340	155	62	36,970	72.0	395	185	75	1.0
Anza Avenue to Hawthorne Boulevard	32,207	70.5	320	143	56	37,038	71.0	340	155	62	0.5
Hawthorne Boulevard to Madrona Avenue	35,746	71.0	340	155	62	41,108	71.5	368	170	69	0.5
Madrona Avenue to Maple Avenue	36,884	70.5	320	143	56	42,417	71.5	368	170	69	1.0
Maple Avenue to Crenshaw Boulevard	33,987	69.5	278	120	---	39,085	70.0	300	130	50	0.5
Crenshaw Boulevard to Arlington Avenue	37,114	69.5	278	120	---	42,681	70.5	320	143	56	1.0
Arlington Avenue to Van Ness Avenue	33,019	70.0	300	130	50	37,972	71.0	340	155	62	1.0
Van Ness Avenue to Western Avenue	30,120	68.5	235	100	---	34,638	69.5	278	120	---	1.0
Van Ness Avenue											
South of Redondo Beach Boulevard	12,875	65.0	130	50	---	14,806	65.5	143	56	---	0.5
North of Artesia Boulevard	13,972	65.5	143	56	---	16,068	66.0	155	62	---	0.5
Artesia Boulevard to 182nd Street	15,797	66.0	155	62	---	18,167	66.5	170	69	---	0.5
182nd Street to I-405	14,160	65.5	143	56	---	16,284	66.0	155	62	---	0.5
I-405 to 190th Street	15,714	66.0	155	62	---	18,071	66.5	170	69	---	0.5
190th Street to Del Amo Boulevard	18,485	67.5	200	83	---	21,258	68.5	235	100	---	1.0
Del Amo Boulevard to Torrance Boulevard	15,507	66.0	155	62	---	17,833	66.5	170	69	---	0.5
Victor Street											
Del Amo Boulevard to Torrance Boulevard	4,420	62.0	75	---	---	5,083	62.5	83	---	---	0.5
Western Avenue											
Artesia Boulevard to 182nd Street	31,867	70.0	300	130	50	36,647	71.0	340	155	62	1.0
182nd Street to 190th Street	32,493	71.0	340	155	62	37,367	72.0	395	185	75	1.0
190th Street to Del Amo Boulevard	42,751	72.5	428	200	83	49,164	73.0	460	215	90	0.5
Del Amo Boulevard to Torrance Boulevard	33,508	71.5	368	170	69	38,534	72.0	395	185	75	0.5
Torrance Boulevard to Carson Street	32,172	71.0	340	155	62	36,998	71.5	368	170	69	0.5
Carson Street to Sepulveda Boulevard	34,588	71.5	368	170	69	39,776	72.0	395	185	75	0.5
Sepulveda Boulevard to 235th Street	32,449	71.0	340	155	62	37,316	71.5	368	170	69	0.5
South of 235th Street	31,749	71.0	340	155	62	36,511	71.5	368	170	69	0.5
Yukon Avenue											
Redondo Beach Boulevard to Artesia Boulevard	4,949	59.5	---	---	---	5,691	60.0	50	---	---	0.5
Artesia Boulevard to 182nd Street	3,995	58.5	---	---	---	4,594	59.0	---	---	---	0.5
182nd Street to 190th Street	3,576	58.0	---	---	---	4,112	58.5	---	---	---	0.5
I-405 Freeway (without a sound wall)											
Redondo Beach Boulevard to Crenshaw Boulevard	248,000	84.5	1,575	1,000	560	285,200	85.0	1,650	1,050	600	0.5
Crenshaw Boulevard to Western Avenue	255,000	84.5	1,575	1,000	560	293,250	85.0	1,650	1,050	600	0.5
I-405 Freeway (with a sound wall)											
Redondo Beach Boulevard to Crenshaw Boulevard	248,000	78.5	905	490	98	285,200	79.0	950	520	195	0.5
Crenshaw Boulevard to Western Avenue	255,000	78.5	905	490	98	293,250	79.0	950	520	195	0.5

* Arterial Types: 1) 2 lanes, 35 mph or less; 2) 2 lanes, 40 mph; 3) 2 lanes, 45 mph or more; 4) 4-6 lanes, 35 mph or less; 5) 4-6 lanes, 40 mph; 6) 4-6 lanes, 45 mph or more; 7) 4-6 lane freeway, 55 mph or more; 8) 8 lane freeway, 55 mph or more.

Notes: AT, ABOVE, and BELOW refer to the elevation of the arterial relative to the surrounding area.

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2005	CNEL@ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
182nd Street												
West City Limits to Hawthorne Boulevard	1	30	AT	1.80%	0.70%	13,340	65.5	143	56	---	---	---
Hawthorne Boulevard to Prairie Avenue	4	35	AT	1.80%	0.70%	9,510	64	110	---	---	---	---
Prairie Avenue to Yukon Avenue	4	35	AT	1.80%	0.70%	17,568	66.5	170	69	---	---	---
Yukon Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	18,523	66.5	170	69	---	---	---
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	1.80%	0.70%	14,585	65.5	143	56	---	---	---
Van Ness Avenue to Western Avenue	4	35	AT	1.80%	0.70%	16,041	66	155	62	---	---	---
190th Street												
West City Limits to Anza Avenue	4	35	AT	1.80%	0.70%	36,912	69.5	278	120	---	---	---
Anza Avenue to Hawthorne Boulevard	4	35	AT	2.00%	2.00%	36,281	70.5	320	143	56	---	---
Hawthorne Boulevard to Prairie Avenue	4	40	AT	1.80%	0.70%	31,271	70.5	320	143	56	---	---
Prairie Avenue to Yukon Avenue	4	40	AT	1.80%	0.70%	42,680	72	395	185	75	---	---
Yukon Avenue to Crenshaw Boulevard	4	40	AT	2.00%	2.00%	50,466	73	460	215	90	---	---
Crenshaw Boulevard to Van Ness Avenue	4	40	AT	1.80%	0.70%	35,737	71	340	155	62	---	---
Van Ness Avenue to Western Avenue	4	40	AT	1.80%	0.70%	38,899	71.5	368	170	69	---	---
223rd Street												
West of Western Avenue	5	40	AT	1.80%	0.70%	15,395	67	185	75	---	---	---
235th Street												
Sepulveda Boulevard to Nadine Circle	1	35	AT	1.80%	0.70%	11,285	66	155	62	---	---	---
Nadine Circle to Juniper Avenue	1	35	AT	1.80%	0.70%	11,991	66	155	62	---	---	---
Juniper Avenue to Crenshaw Boulevard	1	35	AT	1.80%	0.70%	11,832	66	155	62	---	---	---
Crenshaw Boulevard to Arlington Avenue	1	25	AT	1.80%	0.70%	6,601	60.5	56	---	---	---	---
Arlington Avenue to Cabrillo Avenue	1	25	AT	1.80%	0.70%	4,581	59	---	---	---	---	---
Anza Avenue												
190th Street to Del Amo Boulevard	4	35	AT	1.80%	0.70%	25,750	68	215	90	---	---	---
Del Amo Boulevard to Torrance Boulevard	4	35	AT	2.00%	2.00%	28,175	69.5	278	120	---	---	---
Torrance Boulevard to Lenore Street	4	35	AT	1.80%	0.70%	25,682	68	215	90	---	---	---
Lenore Street to Carson Street	4	35	AT	1.80%	0.70%	25,214	68	215	90	---	---	---
Carson Street to Sepulveda Boulevard	4	35	AT	1.80%	0.70%	25,993	68	215	90	---	---	---
Sepulveda Boulevard to Calle Mayor	4	30	AT	1.80%	0.70%	29,527	67.5	200	83	---	---	---
Calle Mayor to Pacific Coast Highway	4	30	AT	1.80%	0.70%	12,658	64	110	---	---	---	---
Arlington Avenue												
Carson Street to Sepulveda Boulevard	1	30	AT	1.80%	0.70%	6,455	62.5	83	---	---	---	---
Sepulveda Boulevard to 235th Street	1	35	AT	2.00%	2.00%	16,113	68.5	235	100	---	---	---
Artesia Boulevard												
Hawthorne Boulevard to Prairie Avenue	5	40	AT	1.90%	2.80%	32,855	71.5	368	170	69	---	---
Prairie Avenue to Yukon Avenue	5	40	AT	1.90%	2.80%	39,180	72.5	428	200	83	---	---
Yukon Avenue to Crenshaw Boulevard	5	40	AT	1.90%	2.80%	28,756	71	340	155	62	---	---
Crenshaw Boulevard to Van Ness Avenue	5	40	AT	1.90%	2.80%	31,805	71.5	368	170	69	---	---
Van Ness Avenue to Western Avenue	5	40	AT	1.90%	2.80%	35,516	72	395	185	75	---	---

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average	CNEL@ 50'	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy	Daily Traffic	From Near Lane C/L	60dB	65dB	70dB	75dB	80dB
Cabrillo Avenue												
Torrance Boulevard to Carson Street	4	25	AT	1.80%	0.70%	13,122	62	75	---	---	---	---
Carson Street to Sepulveda Boulevard	4	25	AT	1.80%	0.70%	8,891	60.5	56	---	---	---	---
Sepulveda Boulevard to 235th Street	1	30	AT	1.80%	0.70%	5,992	62	75	---	---	---	---
Calle Mayor												
East of Palos Verdes Boulevard	1	30	BELOW	1.80%	0.70%	5,855	62	64	---	---	---	---
West of Newton Street	1	30	AT	1.80%	0.70%	11,738	65	130	50	---	---	---
Newton Street to Pacific Coast Highway	1	30	AT	1.80%	0.70%	10,249	64.5	120	---	---	---	---
Pacific Coast Highway to Anza Avenue	4	30	AT	1.80%	0.70%	15,240	65	130	50	---	---	---
Carson Street												
Palos Verdes Boulevard to Anza Avenue	1	35	AT	1.80%	0.70%	5,855	63	90	---	---	---	---
Anza Avenue to Hawthorne Boulevard	4	35	AT	1.80%	0.70%	13,791	65.5	143	56	---	---	---
Hawthorne Boulevard to Madrona Avenue	4	35	AT	2.00%	2.00%	29,335	69.5	278	120	---	---	---
Madrona Avenue to Maple Avenue	4	35	AT	1.80%	0.70%	28,534	68.5	235	100	---	---	---
Maple Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	30,441	69	255	110	---	---	---
Crenshaw Boulevard to Arlington Avenue	4	30	AT	2.00%	2.00%	31,225	69.5	278	120	---	---	---
Arlington Avenue to Cabrillo Avenue	4	30	AT	1.80%	0.70%	31,703	68	215	90	---	---	---
Cabrillo Avenue to Western Avenue	4	30	AT	1.80%	0.70%	33,613	68	215	90	---	---	---
Crenshaw Bouelvard												
Redondo Beach Boulevard to Artesia Boulevard	5	40	AT	2.00%	2.00%	31,251	71	340	155	62	---	---
Artesia Boulevard to 182nd Street	5	40	AT	2.00%	2.00%	35,093	71.5	368	170	69	---	---
182nd Street to 190th Street	5	40	AT	1.80%	0.70%	58,156	73	460	215	90	---	---
190th Street to Del Amo Boulevard	5	40	AT	2.00%	2.00%	48,649	73	460	215	90	---	---
Del Amo Boulevard to Maricopa Street	6	45	AT	1.80%	0.70%	43,328	72.5	428	200	83	---	---
Maricopa Street to Torrance Boulevard	6	45	AT	1.80%	0.70%	43,000	72.5	428	200	83	---	---
Torrance Boulevard to Ca]	6	45	AT	1.80%	0.70%	48,554	73	460	215	90	---	---
Carson Street to Sepulveda Boulevard	6	45	AT	1.80%	0.70%	59,554	74	520	255	110	---	---
Sepulveda Boulevard to 235th Street	6	45	AT	1.80%	0.70%	52,664	73.5	490	235	100	---	---
235th Street to Lomita Boulevard	6	45	AT	1.80%	0.70%	52,300	73.5	490	235	100	---	---
Lomita Boulevard to Skypark Drive	6	45	AT	2.00%	2.00%	45,663	73.5	490	235	100	---	---
Skypark Drive to Pacific Coast Highway	6	45	AT	1.80%	0.70%	49,031	73	460	215	90	---	---
Pacific Coast Highway to South City Limit	6	45	AT	2.00%	2.00%	34,384	72.5	428	200	83	---	---
Del Amo Boulevard												
West City Limit to Entradero Avenue	5	40	AT	1.80%	0.70%	15,511	67	185	75	---	---	---
Entradero Avenue to Anza Avenue	5	40	AT	2.00%	2.00%	17,650	68.5	235	100	---	---	---
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	18,316	68	215	90	---	---	---
Hawthorne Boulevard to Prairie Avenue	5	40	AT	1.80%	0.70%	20,716	68.5	235	100	---	---	---
Prairie Avenue to Maple Avenue	5	40	AT	1.80%	0.70%	10,973	65.5	143	56	---	---	---
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	1.80%	0.70%	9,652	64	110	---	---	---	---
Van Ness Avenue to Western Avenue	4	35	AT	1.80%	0.70%	9,481	64	110	---	---	---	---

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic	CNEL@ 50' From Near Lane C/L	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			2005	2005	60dB	65dB	70dB
Emerald Street												
Henrietta Street to Victor Street	1	25	AT	1.80%	0.70%	700	52	---	---	---	---	---
Victor Street to Anza Avenue	1	25	AT	1.80%	0.70%	3,653	58	---	---	---	---	---
Anza Avenue to Hawthorne Boulevard	1	25	AT	1.80%	0.70%	5,778	60	50	---	---	---	---
East of Hawthorne Boulevard	1	25	AT	1.80%	0.70%	7,220	61	62	---	---	---	---
West of Prairie Avenue	1	25	AT	1.80%	0.70%	5,532	60	50	---	---	---	---
Entradero Street												
190th Street to Del Amo Boulevard	1	25	AT	1.80%	0.70%	3,864	58.5	---	---	---	---	---
Hawthorne Boulevard												
Redondo Beach Boulevard to Artesia Boulevard	4	35	AT	2.10%	0.60%	54,227	71.5	368	170	69	---	---
Artesia Boulevard to 182nd Street	4	35	AT	2.40%	0.70%	64,510	72.5	428	200	83	---	---
182nd Street to 190th Street	4	35	AT	2.40%	0.70%	64,415	72	395	185	75	---	---
190th Street to Del Amo Boulevard	5	40	AT	2.40%	0.70%	66,561	73.5	490	235	100	---	---
Del Amo Boulevard to Torrance Boulevard	5	40	AT	2.40%	0.70%	65,625	73.5	490	235	100	---	---
Torrance Boulevard to Carson Street	5	40	AT	2.30%	0.60%	69,040	73.5	490	235	100	---	---
Carson Street to Sepulveda Boulevard	5	40	AT	2.30%	0.60%	63,226	73.5	490	235	100	---	---
South of Sepulveda Boulevard	5	40	AT	2.30%	0.60%	70,912	74	520	255	110	---	---
North of Lomita Boulevard	5	40	AT	2.30%	0.60%	67,446	73.5	490	235	100	---	---
Lomita Boulevard to Skypark Drive	5	40	AT	2.30%	0.60%	54,008	72.5	428	200	83	---	---
Skypark Drive to Pacific Coast Highway	5	40	AT	2.30%	0.60%	48,832	72	395	185	75	---	---
Pacific Coast Highway to South City Limit	5	40	AT	1.80%	0.70%	38,342	71	340	155	62	---	---
Henrietta Street												
Torrance Boulevard to Del Amo Boulevard	1	35	AT	1.80%	0.70%	4,153	61.5	69	---	---	---	---
Lomita Boulevard												
Anza Avenue to Hawthorne Boulevard	4	35	AT	1.80%	0.70%	14,908	66	155	62	---	---	---
Hawthorne Boulevard to Madison Street	6	45	AT	1.80%	0.70%	36,422	72	395	185	75	---	---
Madison Street to Crenshaw Boulevard	6	45	AT	2.00%	2.00%	35,502	72.5	428	200	83	---	---
Madison Street												
Lomita Boulevard to Pacific Coast Highway	4	35	BELOW	1.80%	0.70%	13,511	65.5	80	54	---	---	---
Madrona Avenue												
Del Amo Boulevard to Torrance Boulevard	5	40	AT	1.80%	0.70%	29,142	70	300	130	50	---	---
Torrance Boulevard to Carson Street	5	40	AT	1.80%	0.70%	30,466	70	300	130	50	---	---
Carson Street to Sepulveda Boulevard	4	35	AT	1.80%	0.70%	20,197	67	185	75	---	---	---
224th Street to 229th Street	1	35	AT	1.80%	0.70%	220	51.5	---	---	---	---	---
Maple Avenue												
Del Amo Boulevard to Columbia Street	4	25	AT	1.80%	0.70%	9,737	61	62	---	---	---	---
Columbia Street to Maricopa Street	4	25	AT	1.80%	0.70%	10,013	61	62	---	---	---	---
Maricopa Street to Torrance Boulevard	1	25	AT	1.80%	0.70%	10,639	62.5	83	---	---	---	---
Torrance Boulevard to Carson Street	1	25	AT	1.80%	0.70%	8,150	61.5	69	---	---	---	---
Carson Street to Sepulveda Boulevard	4	25	BELOW	1.80%	0.70%	9,490	61	57	---	---	---	---
Maricopa Street												
Maple Avenue to Crenshaw Boulevard	1	35	AT	1.80%	0.70%	7,233	64	110	---	---	---	---

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2005	CNEL@ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
Newton Street												
Calle Mayor to Vista Montana	1	25	AT	1.80%	0.70%	2,898	57.5	---	---	---	---	---
East of Vista Montana	1	25	AT	1.80%	0.70%	6,253	60.5	56	---	---	---	---
West of Hawthorne Boulevard	1	25	AT	1.80%	0.70%	3,678	58.5	---	---	---	---	---
Ocean Avenue												
Torrance Boulevard to Carson Street	1	25	AT	1.80%	0.70%	1,474	55	---	---	---	---	---
Carson Street to Sepulveda Boulevard	1	25	AT	1.80%	0.70%	424	50.5	---	---	---	---	---
Sepulveda Boulevard to Lomita Boulevard	1	25	AT	1.80%	0.70%	7,920	61.5	69	---	---	---	---
Lomita Boulevard to Pacific Coast Highway	1	25	AT	1.80%	0.70%	3,858	58.5	---	---	---	---	---
Pacific Coast Highway												
West of Palos Verdes Boulevard	6	45	AT	2.60%	0.80%	26,780	70.5	320	143	56	---	---
Palos Verdes Boulevard to Calle Mayor	6	45	AT	2.60%	0.80%	33,091	71.5	368	170	69	---	---
Calle Mayor to Ocean Avenue	6	45	AT	2.60%	0.80%	33,564	71.5	368	170	69	---	---
Ocean Avenue to Hawthorne Boulevard	6	45	AT	2.60%	0.80%	42,497	72.5	428	200	83	---	---
Hawthorne Boulevard to Madison Street	6	45	AT	2.80%	1.00%	41,269	73	460	215	90	---	---
Madison Street to Crenshaw Boulevard	6	45	AT	2.80%	1.00%	39,566	72.5	428	200	83	---	---
Crenshaw Boulevard to East City Limit	4	35	AT	3.00%	1.70%	48,110	72	395	185	75	---	---
Palos Verdes Boulevard												
Torrance Boulevard to Sepulveda Boulevard	1	30	AT	1.80%	0.70%	8,206	63.5	100	---	---	---	---
South of Sepulveda Boulevard	4	30	AT	2.00%	2.00%	14,232	66	155	62	---	---	---
North of Pacific Coast Highway	4	30	AT	1.80%	0.70%	13,964	64.5	120	---	---	---	---
Pacific Coast Highway to Catalina Avenue	4	30	AT	1.80%	0.70%	21,496	66.5	170	69	---	---	---
Catalina Avenue to Calle Miramar	4	30	AT	2.00%	2.00%	24,766	68.5	235	100	---	---	---
Calle Miramar to Calle Mayor	4	30	AT	1.80%	0.70%	23,003	66.5	170	69	---	---	---
Calle Mayor to South City Limit	1	30	AT	1.80%	0.70%	17,997	66.5	170	69	---	---	---
Prairie Avenue												
Redondo Beach Boulevard to Artesia Boulevard	4	35	AT	1.80%	0.70%	48,732	71	340	155	62	---	---
Artesia Boulevard to 182nd Street	4	35	AT	1.80%	0.70%	56,200	71.5	368	170	69	---	---
182nd Street to 190th Street	5	40	AT	1.80%	0.70%	38,000	71	340	155	62	---	---
190th Street to Del Amo Boulevard	5	40	AT	2.00%	2.00%	50,126	73	460	215	90	---	---
Redondo Beach Boulevard												
Hawthorne Boulevard to I-405	4	35	AT	1.80%	0.70%	21,260	67	185	75	---	---	---
I-405 to Yukon Avenue	4	35	AT	2.00%	2.00%	34,270	70.5	320	143	56	---	---
Yukon Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	30,834	69	255	110	---	---	---
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	2.00%	2.00%	29,080	69.5	278	120	---	---	---
Rolling Hills Road												
Hawthorn Boulevard to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	9,879	64	---	---	---	---	---

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average	CNEL@ 50'	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy	Daily Traffic	From Near Lane C/L	60dB	65dB	70dB	75dB	80dB
Sepulveda Boulevard												
West of Palos Verdes Boulevard	5	40	BELOW	1.80%	0.70%	14,940	67	86	64	---	---	---
Palos Verdes Boulevard to Anza Avenue	5	40	AT	2.00%	2.00%	24,016	70	300	130	50	---	---
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	27,465	69.5	278	120	---	---	---
Hawthorne Boulevard to Madrona Avenue	5	40	AT	1.80%	0.70%	42,431	71.5	368	170	69	---	---
Madrona Avenue to Maple Avenue	5	40	AT	2.00%	2.00%	48,668	73	460	215	90	---	---
Maple Avenue to Crenshaw Boulevard	5	40	AT	1.80%	0.70%	41,488	71.5	368	170	69	---	---
Crenshaw Boulevard to Arlington Avenue	5	40	AT	1.80%	0.70%	47,517	72	395	185	75	---	---
Arlington Avenue to Cabrillo Avenue	5	40	AT	2.00%	2.00%	48,541	73	460	215	90	---	---
Cabrillo Avenue to Western Avenue	5	40	AT	1.80%	0.70%	47,053	72	395	185	75	---	---
Skypark Drive												
East of Madison Avenue	5	40	AT	1.80%	0.70%	20,965	68.5	235	100	---	---	---
West of Crenshaw Boulevard	5	40	AT	1.80%	0.70%	21,885	68.5	235	100	---	---	---
Spencer Street												
Victor Street to Anza Avenue	1	25	AT	1.80%	0.70%	4,940	59.5	---	---	---	---	---
Anza Avenue to Hawthorne Boulevard	1	25	AT	1.80%	0.70%	5,135	59.5	---	---	---	---	---
Torrance Boulevard												
West City Limit to Henrietta Street	5	40	AT	1.80%	0.70%	27,000	69.5	278	120	---	---	---
Henrietta Street to Victor Street	5	40	AT	1.80%	0.70%	32,181	70.5	320	143	56	---	---
Victor Street to Anza Avenue	5	40	AT	2.00%	2.00%	32,148	71	340	155	62	---	---
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	32,207	70.5	320	143	56	---	---
Hawthorne Boulevard to Madrona Avenue	5	40	AT	1.80%	0.70%	35,746	71	340	155	62	---	---
Madrona Avenue to Maple Avenue	4	35	AT	2.00%	2.00%	36,884	70.5	320	143	56	---	---
Maple Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	33,987	69.5	278	120	---	---	---
Crenshaw Boulevard to Arlington Avenue	4	35	AT	1.80%	0.70%	37,114	69.5	278	120	---	---	---
Arlington Avenue to Van Ness Avenue	4	35	AT	2.00%	2.00%	33,019	70	300	130	50	---	---
Van Ness Avenue to Western Avenue	4	35	AT	1.80%	0.70%	30,120	68.5	235	100	---	---	---
Van Ness Avenue												
South of Redondo Beach Boulevard	4	35	AT	1.80%	0.70%	12,875	65	130	50	---	---	---
North of Artesia Boulevard	4	35	AT	1.80%	0.70%	13,972	65.5	143	56	---	---	---
Artesia Boulevard to 182nd Street	4	35	AT	1.80%	0.70%	15,797	66	155	62	---	---	---
182nd Street to 11-405	4	35	AT	1.80%	0.70%	14,160	65.5	143	56	---	---	---
I-405 to 190th Street	4	35	AT	1.80%	0.70%	15,714	66	155	62	---	---	---
190th Street to Del Amo Boulevard	4	35	AT	2.00%	2.00%	18,485	67.5	200	83	---	---	---
Del Amo Boulevard to Torrance Boulevard	4	35	AT	1.80%	0.70%	15,507	66	155	62	---	---	---
Victor Street												
Del Amo Boulevard to Torrance Boulevard	1	35	AT	1.80%	0.70%	4,420	62	75	---	---	---	---

Table E-1. Distance to Existing -2005 CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2005	CNEL@ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
Western Avenue												
Artesia Boulevard to 182nd Street	5	40	AT	1.80%	0.70%	31,867	70	300	130	50	---	---
182nd Street to 190th Street	5	40	AT	2.00%	2.00%	32,493	71	340	155	62	---	---
190th Street to Del Amo Boulevard	5	40	AT	4.00%	1.20%	42,751	72.5	428	200	83	---	---
Del Amo Boulevard to Torrance Boulevard	5	40	AT	4.00%	1.20%	33,508	71.5	368	170	69	---	---
Torrance Boulevard to Carson Street	5	40	AT	4.00%	1.20%	32,172	71	340	155	62	---	---
Carson Street to Sepulveda Boulevard	5	40	AT	4.00%	1.20%	34,588	71.5	368	170	69	---	---
Sepulveda Boulevard to 235th Street	5	40	AT	4.00%	1.20%	32,449	71	340	155	62	---	---
South of 235th Street	5	40	AT	4.00%	1.20%	31,749	71	340	155	62	---	---
Yukon Avenue												
Redondo Beach Boulevard to Artesia Boulevard	1	25	AT	1.80%	0.70%	4,949	59.5	---	---	---	---	---
Artesia Boulevard to 182nd Street	1	25	AT	1.80%	0.70%	3,995	58.5	---	---	---	---	---
182nd Street to 190th Street	1	25	AT	1.80%	0.70%	3,576	58	---	---	---	---	---
I-405 Freeway (without a sound wall)												
Redondo Beach Boulevard to Crenshaw Bouleva	8	65	ABOVE	2.40%	2.20%	248,000	84.5	1,575	1,000	560	230	---
Crenshaw Bouelvard to Western Avenue	8	65	ABOVE	2.40%	2.20%	255,000	84.5	1,575	1,000	560	230	---
I-405 Freeway (with a sound wall)												
Redondo Beach Boulevard to Crenshaw Bouleva	8	65	ABOVE	2.40%	2.20%	248,000	78.5	905	490	98	---	---
Crenshaw Boulevard to Western Avenue	8	65	ABOVE	2.40%	2.20%	255,000	78.5	905	490	98	---	---

* Arterial Types: 1) 2 lanes, 35 mph or less; 2) 2 lanes, 40 mph; 3) 2 lanes, 45 mph or more; 4) 4-6 lanes, 35 mph or less; 5) 4-6 lanes, 40 mph; 6) 4-6 lanes, 45 mph or more; 7) 4-6 lane freeway, 55 mph or more; 8) 8 lane freeway, 55 mph or more.

Notes: AT, ABOVE, and BELOW refer to the elvation of the arterial relative to the surrounding area.

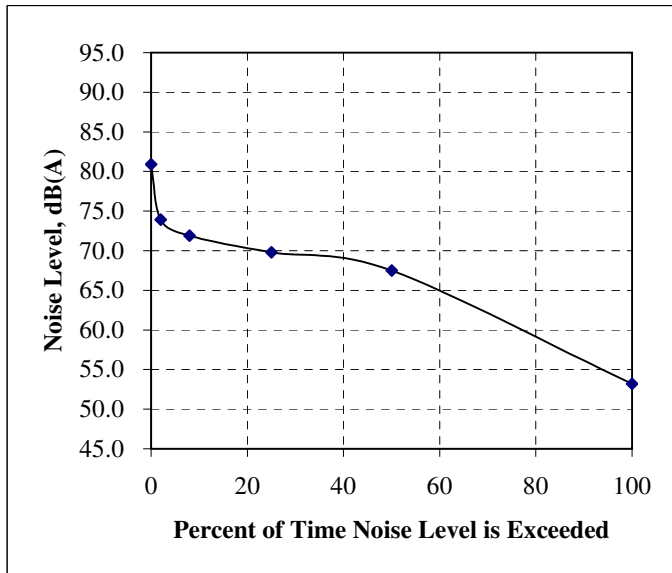
Table 1. Summary of Ambient Noise Measurements in the City of Torrance

Meas. Pos.	Location	Date	Time Period	Noise Source	Noise Level Exceeded for More Than ... (dBA)				Max. Noise Level, dBA	Avg. Noise Level, dBA	CNEL, dB	Notes
					30 min/hr	15 min/hr	5 min/hr	1 min/hr				
1	At 3456 Redondo Beach Blvd.	3/9/06	1:23 pm to 1:44 pm	Traffic on Redondo Beach	67.5	69.8	71.9	73.9	80.9	68.6	---	
2	At corner of Prairie Ave. and 177th St.	3/2/06	1:58 pm to 2:18 pm	Traffic on Prairie	67.2	69.1	71.0	73.2	78.5	68.0	---	
3	At 3830 176th Court	3/1-2/06	24 hrs.	Traffic on I-405	56.4-67.8	58.4-68.6	59.7-69.4	61.0-69.9	65.0-78.6	57.2-67.9	70.1	
4	At corner of Crenshaw Blvd. and 171st St.	3/2/06	12:42 pm to 1:03 pm	Traffic on Crenshaw	67.0	70.4	72.5	74.6	81.4	68.8	---	
5	At corner of Artesia Blvd. and Wilton Pl.	3/9/06	12:22 pm to 12:42 pm	Traffic on Artesia	65.5	68.1	70.5	72.6	79.8	66.9	---	
6	At 3635 190th Street	5/23-24/06	24 hrs.	Traffic on 190th; activities at refinery	48.9-64.7	51.0-66.5	57.2-68.3	61.9-70.7	69.4-92.3	53.4-66.4	67.3	Homeowner complaints re. trucks idling on 190th all night
7	At 18832 Van Ness Ave.	3/8-9/06	24 hrs.	Traffic on Van Ness; activities at Honeywell	49.5-60.6	51.6-61.5	53.5-62.5	54.6-64.9	57.9-85.2	51.1-60.8	63.2	
7a	At 18736 Van Ness Ave.	5/19/06	10:17 am to 2:00 pm	Traffic on Van Ness; activities at Honeywell	65.0-65.2	67.5-67.8	70.1-70.5	72.0-72.6	77.3-93.9	66.6-67.8	---	Audible hum from Honeywell during tests, but not measurable over traffic
8	At 4504 Deelane St.	3/8-9/06	24 hrs.	Traffic on Hawthorne	47.9-64.5	53.4-65.9	57.7-67.4	60.6-68.8	65.9-88.6	52.8-64.8	66.3	
9	At 4712 Torrance Blvd.	3/14/06	11:41 am to 12:01 pm	Traffic on Torrance	66.7	67.3	68.7	70.2	74.3	65.2	---	
10	At 3322 Sonoma St.	3/9/06	3:02 pm to 3:24 pm	Traffic on Madrona	65.8	69.6	72.3	74.0	79.0	68.0	---	
11	At corner of Watson Ave. and Carson St.	3/9/06	3:49 pm to 4:10 pm	Traffic on Carson	63.6	65.5	67.3	69.3	74.7	64.3	---	
12	At corner of 226th St. and Hawthorne Blvd.	3/14/06	12:56 pm to 1:16 pm	Traffic on Hawthorne	72.0	73.8	75.3	77.0	83.7	72.5	---	
13	At 22753 Nadine Cir.	5/23-24/06	24 hrs.	Ambient	39.3-55.9	40.1-60.1	41.5-63.9	46.2-67.3	62.8-78.8	43.1-59.7	58.1	
14	At 22710 Date Ave.	3/1-2/06	24 hrs.	Traffic on Crenshaw	41.4-62.6	49.9-65.5	56.5-67.3	60.5-68.8	68.9-80.0	51.5-63.8	65.9	
15	At corner of Gramercy Ave. and Sepulveda Blvd.	3/2/06	3:00 pm to 3:20 pm	Traffic on Sepulveda	69.1	74.1	76.2	77.7	86.8	72.0	---	
16	At 1828 Calamar St.	5/1-2/06	24 hrs.	BNSF railroad	28.6-50.7	29.9-57.1	32.2-61.6	34.7-67.9	43.4-99.3	29.7-70.2	64.1	
17	At corner of Harlee Ln. and Pacific Coast Highway	3/14/06	1:36 pm to 1:56 pm	Traffic on PCH	61.2	62.9	64.9	68.2	81.6	62.7	---	
18	At 3932 231st Pl.	5/1-2/06	24 hrs.	Zamperini Field	32.7-53.5	33.3-59.8	34.9-65.1	36.6-68.4	42.2-76.6	34.1-59.8	52.4	
19	Residence at corner of 236th St. and Western Ave.	5/8-9/06	24 hrs.	Traffic on Western	41.4-63.7	49.2-65.8	53.6-67.9	57.1-69.3	65.6-81.0	49.0-64.5	66.0	
20	At 3241 Cricklewood St.	5/1-2/06	24 hrs.	Traffic on PCH; activities at Zamperini Field	31.5-60.1	35.9-62.6	48.7-66.3	55.7-70.3	64.9-83.6	44.7-62.6	63.3	

Table 1. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #1, At 3456 Redondo Beach Blvd.
 Date: March 9, 2006
 Time: Noted
 Noise Source: Traffic on Redondo Beach Blvd.
 Distance: 21' from curb on Redondo Beach Blvd.
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	1:23 PM to 1:44 PM	to	to
n*	Ln	Ln	Ln
2	73.9		
8	71.9		
25	69.8		
50	67.5		
90			
99			
Leq	68.6		
Lmax	80.9		
Lmin	53.2		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 2. Noise Survey

Project: City of Torrance Noise Element Update

Position: #2, At corner of Prairie and 177th

Date: March 2, 2006

Time: Noted

Noise Source: Traffic on Prairie

Distance: 24' from curb on Prairie

SLM Height: 5'

LD 712 S/N: 0556

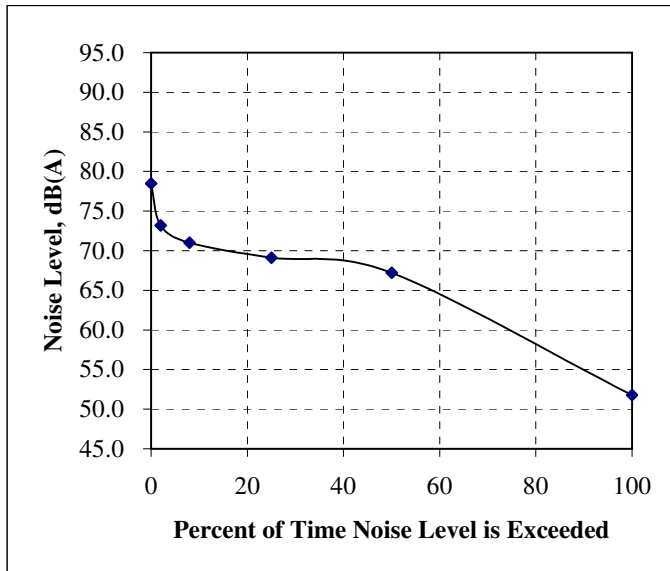
LD CAL200
Calibrator S/N: 2916

Operator: Cynthia Bordash

Measurement Period

1:58 PM	to	to
2:18 PM		

n*	Ln	Ln	Ln
2	73.2		
8	71.0		
25	69.1		
50	67.2		
90			
99			
Leq	68.0		
Lmax	78.5		
Lmin	51.8		



* Leq is the average sound level during the measurement period.

Ln is the sound level exceeded n% of the time during the measurement period.

Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 3. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #3, 3830 176th Court

Date: March 1-2, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	60.9		12:00 pm - 1:00 pm	65.4
1:00 am - 2:00 am	58.7		1:00 pm - 2:00 pm	66.8
2:00 am - 3:00 am	57.7		2:00 pm - 3:00 pm	66.6
3:00 am - 4:00 am	58.3		3:00 pm - 4:00 pm	66.7
4:00 am - 5:00 am	62.9		4:00 pm - 5:00 pm	65.9
5:00 am - 6:00 am	66.0		5:00 pm - 6:00 pm	66.5
6:00 am - 7:00 am	63.8		6:00 pm - 7:00 pm	66.5
7:00 am - 8:00 am	57.2		7:00 pm - 8:00 pm	67.9
8:00 am - 9:00 am	57.6		8:00 pm - 9:00 pm	66.6
9:00 am - 10:00 am	60.8		9:00 pm - 10:00 pm	65.7
10:00 am - 11:00 am	64.5		10:00 pm - 11:00 pm	64.1
11:00 am - 12:00 pm	64.7		11:00 pm - 12:00 am	62.7
CNEL:				70.1

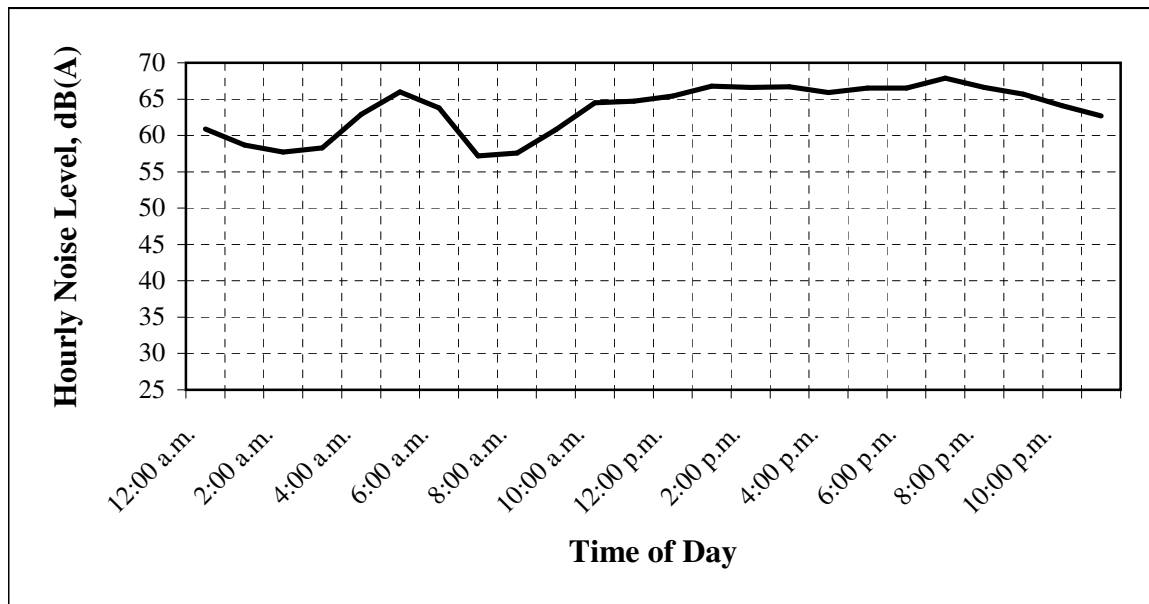
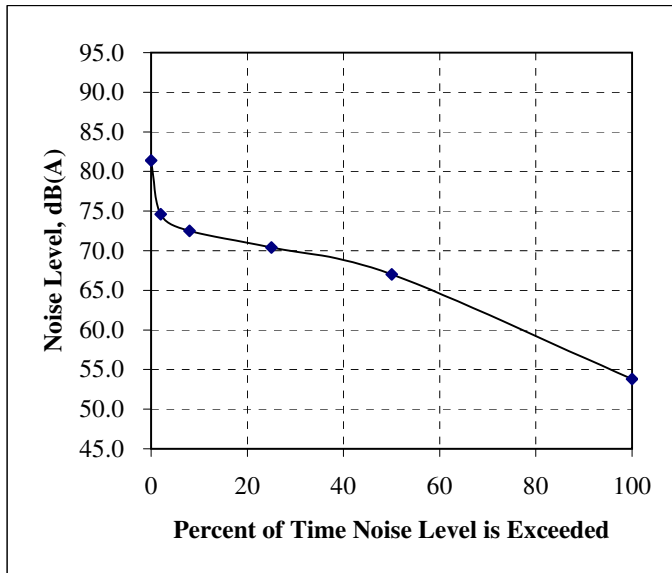


Table 4. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #4, At corner of Crenshaw & 171st
 Date: March 2, 2006
 Time: Noted
 Noise Source: Traffic on Crenshaw
 Distance: 34' from curb on Crenshaw
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

n*	Measurement Period		
	12:42 PM to 1:03 PM	to	to
	Ln	Ln	Ln
2	74.6		
8	72.5		
25	70.4		
50	67.0		
90			
99			
Leq	68.8		
Lmax	81.4		
Lmin	53.8		

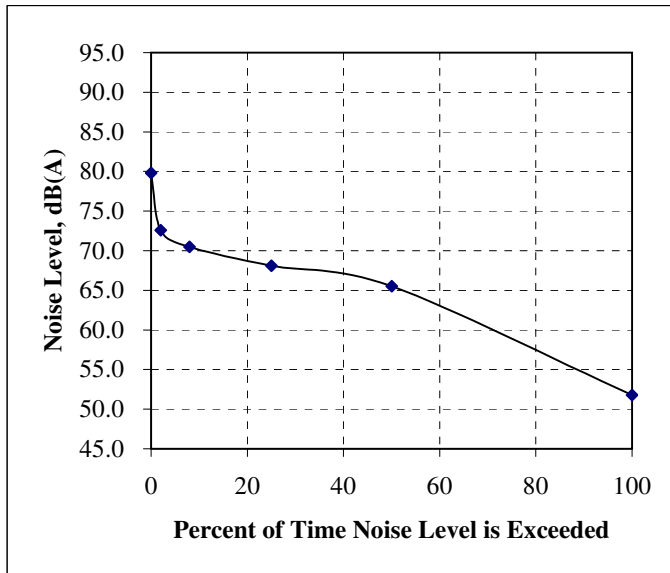


* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 5. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #5, At corner of Artesia and Wilton
 Date: March 9, 2006
 Time: Noted
 Noise Source: Traffic on Artesia
 Distance: 21' from curb on Artesia
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	12:22 PM to 12:42 PM	to	to
n*	Ln	Ln	Ln
2	72.6		
8	70.5		
25	68.1		
50	65.5		
90			
99			
Leq	66.9		
Lmax	79.8		
Lmin	51.8		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 6. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update
 Location: #6, 3635 190th Street
 Date: May 23-24, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	56.5		12:00 pm - 1:00 pm	63.7
1:00 am - 2:00 am	53.9		1:00 pm - 2:00 pm	66.4
2:00 am - 3:00 am	53.4		2:00 pm - 3:00 pm	64.7
3:00 am - 4:00 am	55.3		3:00 pm - 4:00 pm	64.6
4:00 am - 5:00 am	57.2		4:00 pm - 5:00 pm	66.3
5:00 am - 6:00 am	62.0		5:00 pm - 6:00 pm	65.3
6:00 am - 7:00 am	63.5		6:00 pm - 7:00 pm	65.1
7:00 am - 8:00 am	64.3		7:00 pm - 8:00 pm	64.2
8:00 am - 9:00 am	65.0		8:00 pm - 9:00 pm	63.0
9:00 am - 10:00 am	64.0		9:00 pm - 10:00 pm	62.1
10:00 am - 11:00 am	63.2		10:00 pm - 11:00 pm	60.6
11:00 am - 12:00 pm	63.7		11:00 pm - 12:00 am	58.3
CNEL:				67.3

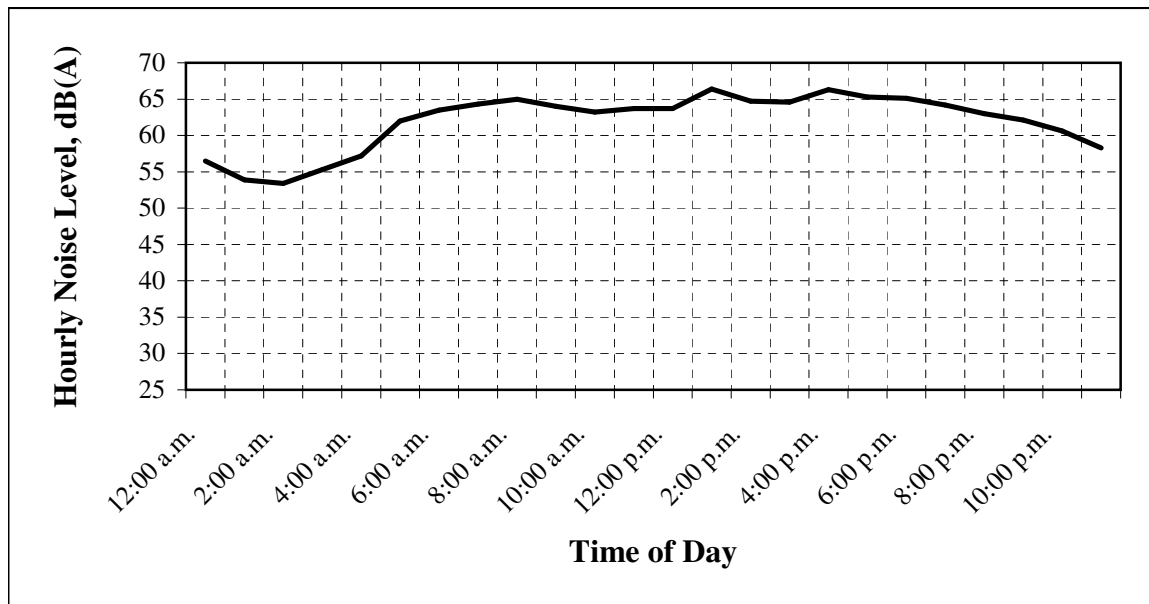


Table 7. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #7, 18832 Van Ness

Date: March 8-9, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	54.5		12:00 pm - 1:00 pm	56.8
1:00 am - 2:00 am	52.3		1:00 pm - 2:00 pm	57.5
2:00 am - 3:00 am	51.1		2:00 pm - 3:00 pm	58.2
3:00 am - 4:00 am	51.8		3:00 pm - 4:00 pm	58.2
4:00 am - 5:00 am	56.5		4:00 pm - 5:00 pm	58.3
5:00 am - 6:00 am	59.8		5:00 pm - 6:00 pm	58.0
6:00 am - 7:00 am	60.8		6:00 pm - 7:00 pm	58.0
7:00 am - 8:00 am	59.8		7:00 pm - 8:00 pm	56.4
8:00 am - 9:00 am	60.0		8:00 pm - 9:00 pm	55.4
9:00 am - 10:00 am	57.9		9:00 pm - 10:00 pm	57.9
10:00 am - 11:00 am	55.8		10:00 pm - 11:00 pm	55.3
11:00 am - 12:00 pm	57.2		11:00 pm - 12:00 am	51.0
CNEL:				63.2

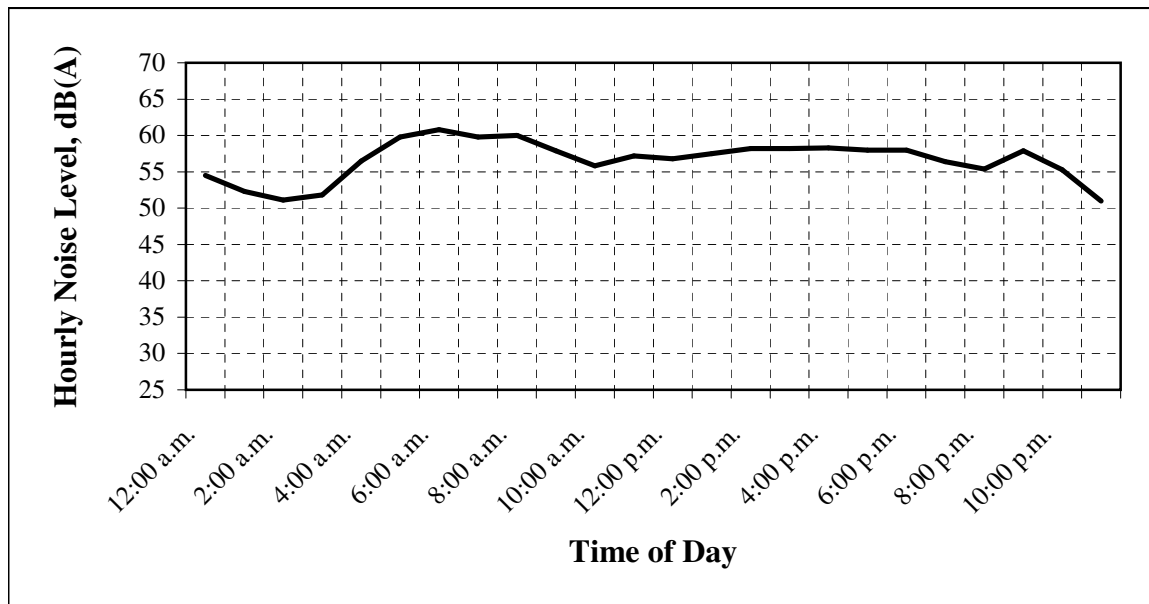


Table 7a. Noise Survey

Project: City of Torrance Noise Element Update

Position: #7a, Residence at 18736 Van Ness

Date: May 19, 2006

Time: Noted

Noise Source: Traffic on Van Ness, activities at Honeywell

Distance: 45' from centerline of nearest lane on Van Ness; 185 yards from Honeywell

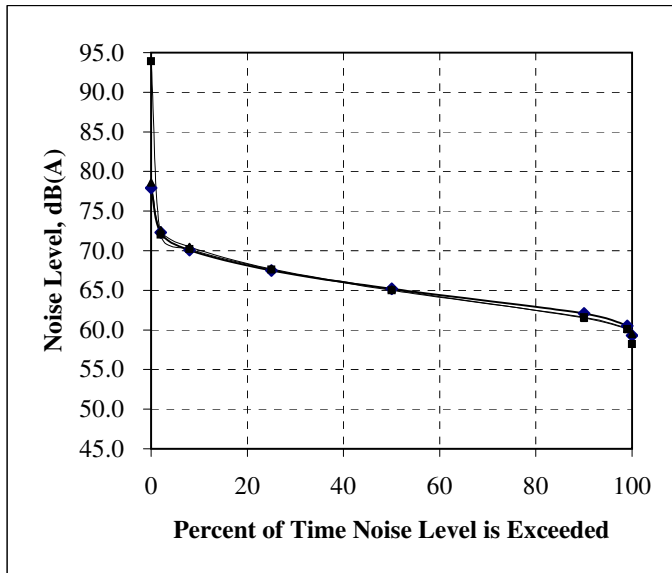
SLM Height: 5'

LD 820 S/N: 0996

LD CAL200
Calibrator S/N: 2916

Operator: Cynthia Bordash

	Measurement Period		
	10:17 AM to 11:00 AM	11:00 AM to 12:00 PM	12:00 PM to 1:00 PM
n*	Ln	Ln	Ln
2	72.3	72.0	72.6
8	70.1	70.2	70.5
25	67.5	67.6	67.7
50	65.2	65.0	65.1
90	62.1	61.6	61.5
99	60.5	60.1	60.1
Leq	66.6	67.8	66.8
Lmax	77.9	93.9	78.6
Lmin	59.3	58.2	59.5

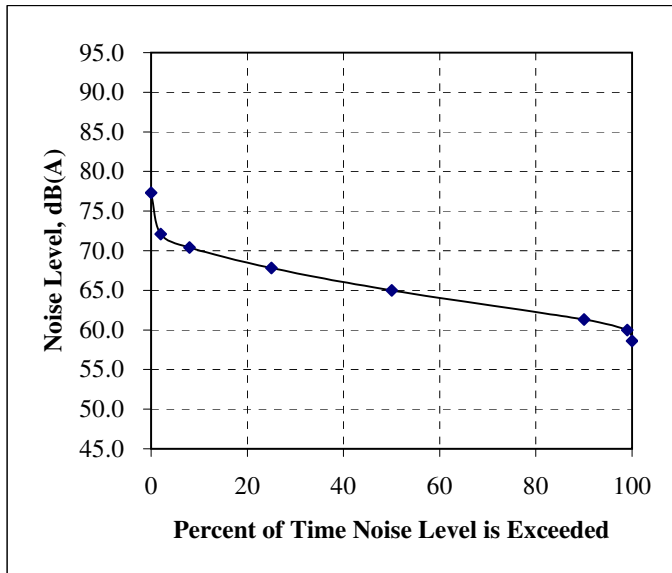


* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 7a, cont. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #7a, Residence at 18736 Van Ness
 Date: May 19, 2006
 Time: Noted
 Noise Source: Traffic on Van Ness, activities at Honeywell
 Distance: 45' from centerline of nearest lane on Van Ness; 185 yards from Honeywell
 SLM Height: 5'
 LD 820 S/N: 0996
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	1:00 PM to 2:00 PM	to	to
n*	Ln	Ln	Ln
2	72.1		
8	70.4		
25	67.8		
50	65.0		
90	61.3		
99	60.0		
Leq	66.6		
Lmax	77.3		
Lmin	58.6		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 8. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #8, 4504 Deelane

Date: March 8-9, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	56.1		12:00 pm - 1:00 pm	60.6
1:00 am - 2:00 am	54.3		1:00 pm - 2:00 pm	60.9
2:00 am - 3:00 am	53.1		2:00 pm - 3:00 pm	60.5
3:00 am - 4:00 am	52.8		3:00 pm - 4:00 pm	61.1
4:00 am - 5:00 am	56.2		4:00 pm - 5:00 pm	61.0
5:00 am - 6:00 am	60.5		5:00 pm - 6:00 pm	61.2
6:00 am - 7:00 am	64.7		6:00 pm - 7:00 pm	61.5
7:00 am - 8:00 am	64.8		7:00 pm - 8:00 pm	61.0
8:00 am - 9:00 am	64.1		8:00 pm - 9:00 pm	61.1
9:00 am - 10:00 am	63.8		9:00 pm - 10:00 pm	60.9
10:00 am - 11:00 am	64.2		10:00 pm - 11:00 pm	59.4
11:00 am - 12:00 pm	62.3		11:00 pm - 12:00 am	57.5
CNEL:				66.3

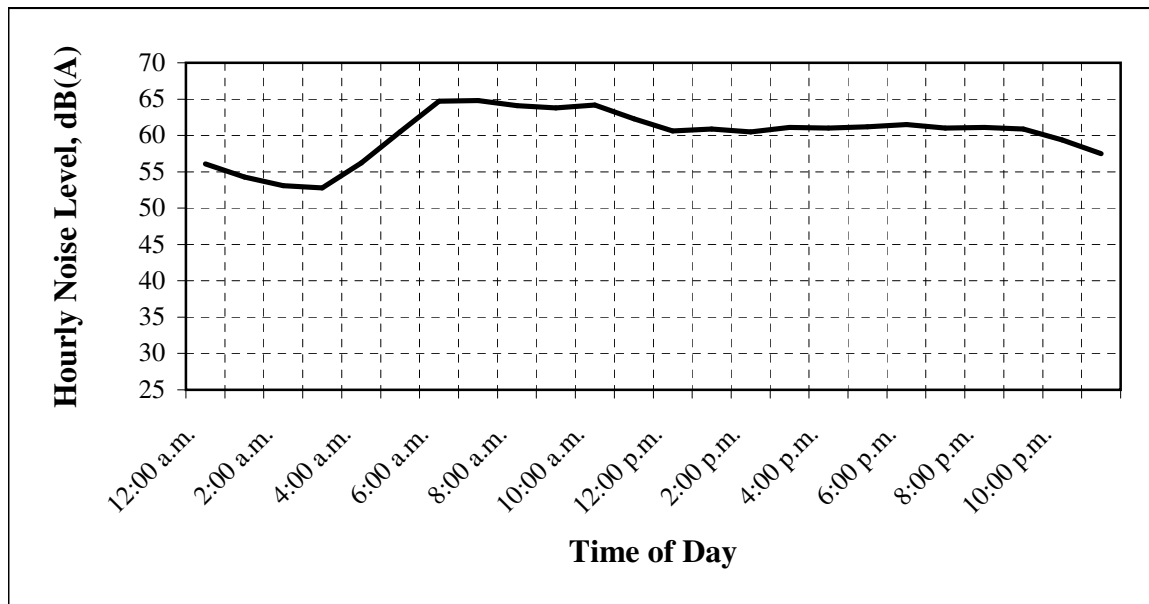
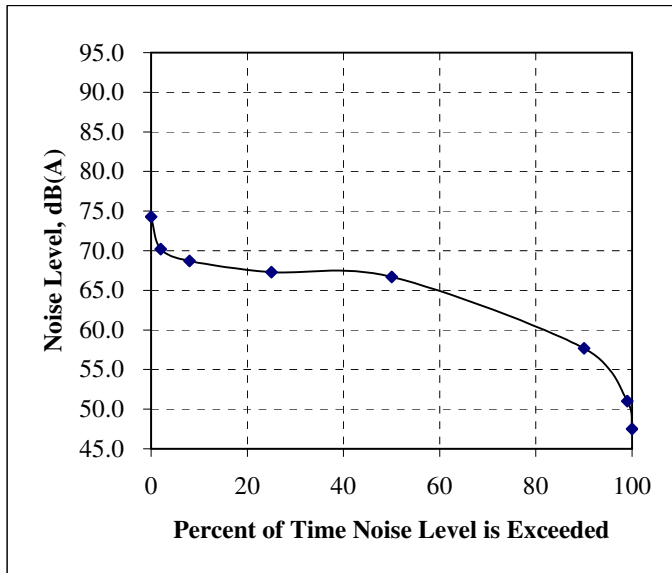


Table 9. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #9, At 4712 Torrance Blvd.
 Date: March 14, 2006
 Time: Noted
 Noise Source: Traffic on Torrance
 Distance: 33' from curb on Torrance
 SLM Height: 5'
 LD 820 S/N: 0996
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

n*	Measurement Period		
	11:41 AM to 12:01 PM	to	to
	Ln	Ln	Ln
2	70.2		
8	68.7		
25	67.3		
50	66.7		
90	57.7		
99	51.0		
Leq	65.2		
Lmax	74.3		
Lmin	47.5		

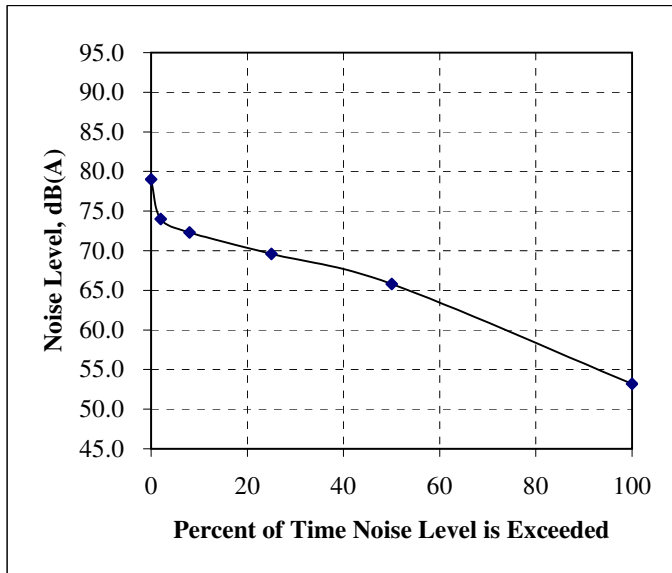


* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 10. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #10, At 3322 Sonoma
 Date: March 9, 2006
 Time: Noted
 Noise Source: Traffic on Madrona
 Distance: 8' from wall adjacent to Madrona
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	3:02 PM to 3:24 PM	to	to
n*	Ln	Ln	Ln
2	74.0		
8	72.3		
25	69.6		
50	65.8		
90			
99			
Leq	68.0		
Lmax	79.0		
Lmin	53.2		

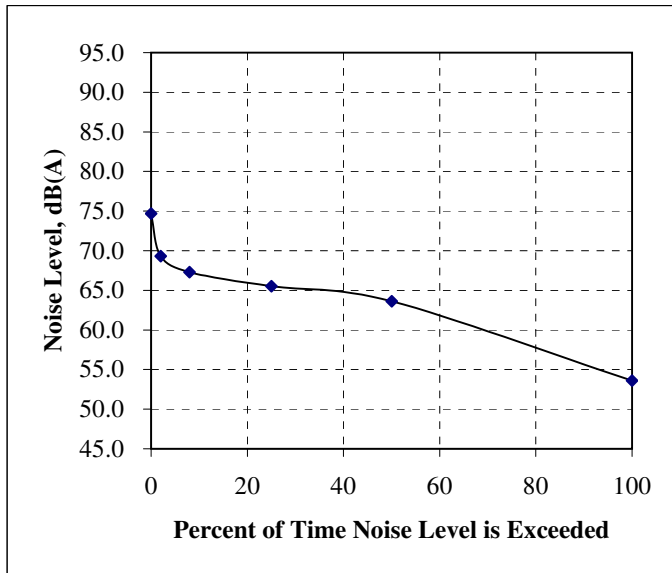


* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 11. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #11, At corner of Watson and Carson
 Date: March 9, 2006
 Time: Noted
 Noise Source: Traffic on Carson
 Distance: 77' from curb on Carson
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	3:49 PM to 4:10 PM	to	to
n*	Ln	Ln	Ln
2	69.3		
8	67.3		
25	65.5		
50	63.6		
90			
99			
Leq	64.3		
Lmax	74.7		
Lmin	53.6		

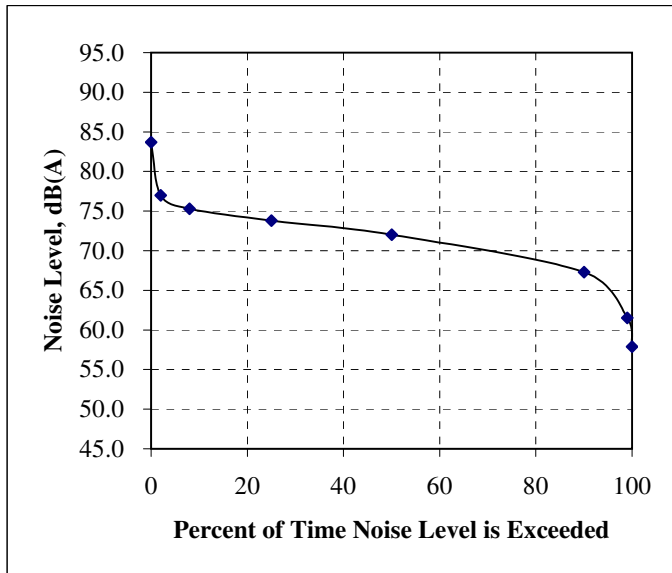


* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 12. Noise Survey

Project: City of Torrance Noise Element Update
 Position: #12, At corner of 226th and Hawthorne
 Date: March 14, 2006
 Time: Noted
 Noise Source: Traffic on Hawthorne
 Distance: 23' from curb on Hawthorne
 SLM Height: 5'
 LD 820 S/N: 0996
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

n*	Measurement Period		
	12:56 PM to 1:16 PM	to	to
	Ln	Ln	Ln
2	77.0		
8	75.3		
25	73.8		
50	72.0		
90	67.3		
99	61.5		
Leq	72.5		
Lmax	83.7		
Lmin	57.9		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 13. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #13, 22753 Nadine Cir.

Date: May 23-24, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	43.1		12:00 pm - 1:00 pm	58.1
1:00 am - 2:00 am	46.8		1:00 pm - 2:00 pm	57.1
2:00 am - 3:00 am	43.9		2:00 pm - 3:00 pm	58.5
3:00 am - 4:00 am	43.7		3:00 pm - 4:00 pm	59.4
4:00 am - 5:00 am	43.4		4:00 pm - 5:00 pm	59.7
5:00 am - 6:00 am	49.0		5:00 pm - 6:00 pm	59.6
6:00 am - 7:00 am	51.8		6:00 pm - 7:00 pm	57.4
7:00 am - 8:00 am	55.8		7:00 pm - 8:00 pm	56.5
8:00 am - 9:00 am	56.5		8:00 pm - 9:00 pm	54.9
9:00 am - 10:00 am	55.3		9:00 pm - 10:00 pm	53.3
10:00 am - 11:00 am	56.6		10:00 pm - 11:00 pm	50.5
11:00 am - 12:00 pm	57.2		11:00 pm - 12:00 am	46.1
CNEL:				58.1

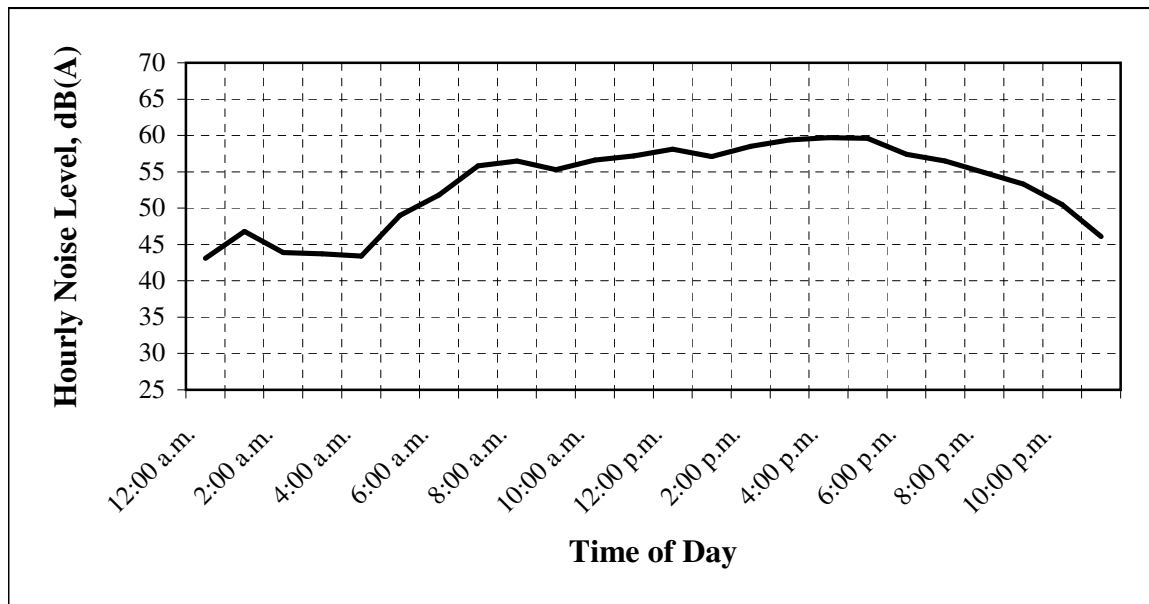


Table 14. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #14, 22710 Date Ave.

Date: March 1-2, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	54.0		12:00 pm - 1:00 pm	62.1
1:00 am - 2:00 am	51.8		1:00 pm - 2:00 pm	62.2
2:00 am - 3:00 am	51.5		2:00 pm - 3:00 pm	62.7
3:00 am - 4:00 am	54.5		3:00 pm - 4:00 pm	62.7
4:00 am - 5:00 am	57.2		4:00 pm - 5:00 pm	63.0
5:00 am - 6:00 am	60.5		5:00 pm - 6:00 pm	62.8
6:00 am - 7:00 am	62.6		6:00 pm - 7:00 pm	62.2
7:00 am - 8:00 am	63.8		7:00 pm - 8:00 pm	62.4
8:00 am - 9:00 am	63.2		8:00 pm - 9:00 pm	60.8
9:00 am - 10:00 am	62.7		9:00 pm - 10:00 pm	60.6
10:00 am - 11:00 am	62.4		10:00 pm - 11:00 pm	59.5
11:00 am - 12:00 pm	62.0		11:00 pm - 12:00 am	58.2
CNEL:				65.9

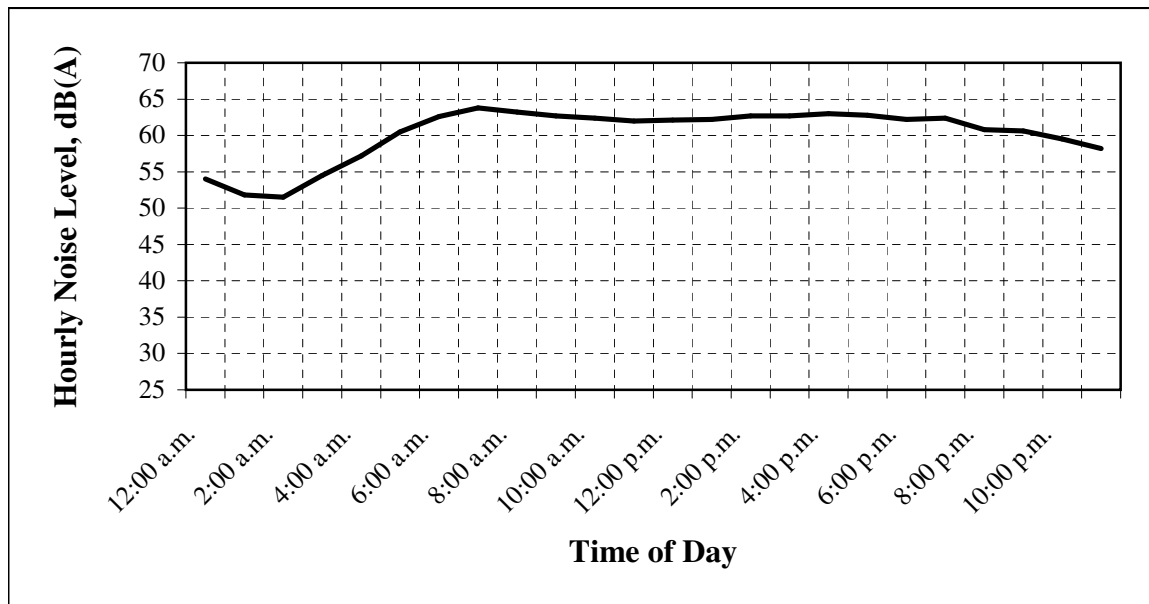
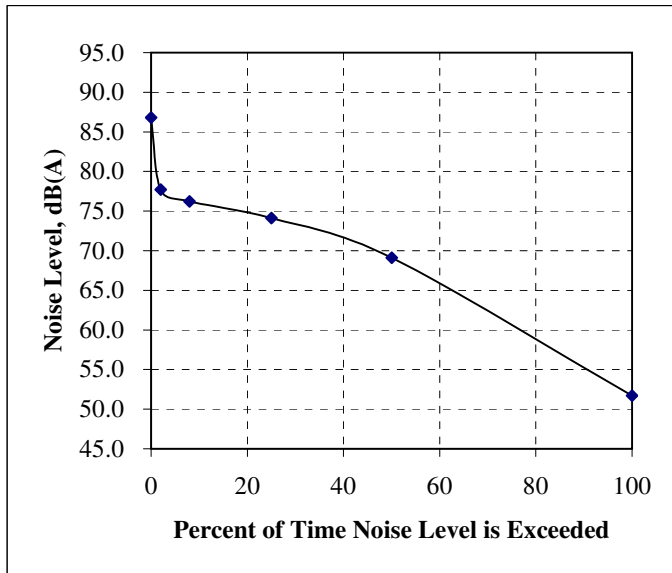


Table 15. Noise Survey

Project: City of Torrance Noise Element Update
 Position: # 15, At corner of Gramercy and Sepulveda
 Date: March 2, 2006
 Time: Noted
 Noise Source: Traffic on Sepulveda
 Distance: 18' from curb on Sepulveda
 SLM Height: 5'
 LD 712 S/N: 0556
 LD CAL200
 Calibrator S/N: 2916
 Operator: Cynthia Bordash

	Measurement Period		
	3:00 PM to 3:20 PM	to	to
n*	Ln	Ln	Ln
2	77.7		
8	76.2		
25	74.1		
50	69.1		
90			
99			
Leq	72.0		
Lmax	86.8		
Lmin	51.7		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 16. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #16, 1828 Calamar St.

Date: May 1-2, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	33.3		12:00 pm - 1:00 pm	50.5
1:00 am - 2:00 am	31.4		1:00 pm - 2:00 pm	50.8
2:00 am - 3:00 am	31.1		2:00 pm - 3:00 pm	67.8
3:00 am - 4:00 am	36.3		3:00 pm - 4:00 pm	51.3
4:00 am - 5:00 am	44.0		4:00 pm - 5:00 pm	70.2
5:00 am - 6:00 am	63.8		5:00 pm - 6:00 pm	59.2
6:00 am - 7:00 am	57.5		6:00 pm - 7:00 pm	49.4
7:00 am - 8:00 am	52.1		7:00 pm - 8:00 pm	65.0
8:00 am - 9:00 am	49.5		8:00 pm - 9:00 pm	41.8
9:00 am - 10:00 am	51.7		9:00 pm - 10:00 pm	45.3
10:00 am - 11:00 am	51.1		10:00 pm - 11:00 pm	54.3
11:00 am - 12:00 pm	54.7		11:00 pm - 12:00 am	29.7
CNEL:				64.1

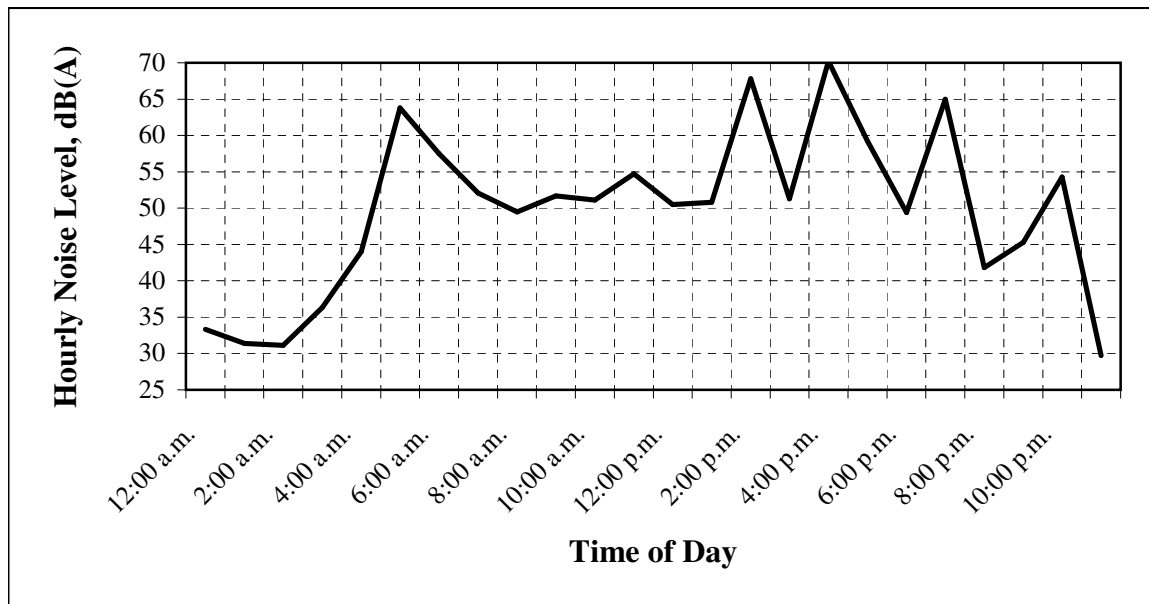


Table 17. Noise Survey

Project: City of Torrance Noise Element Update

Position: #17, At corner of Harrlee and Pacific Coast Hwy.

Date: March 14, 2006

Time: Noted

Noise Source: Traffic on Pacific Coast Highway

Distance: 32' from curb on Pacific Coast Highway

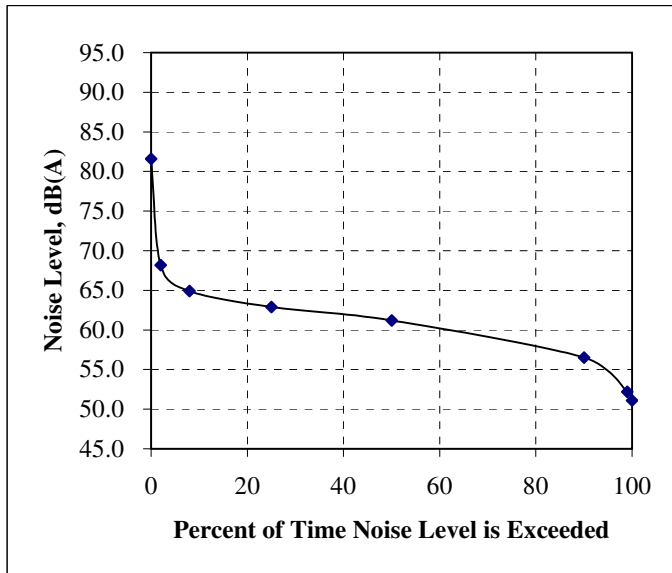
SLM Height: 5'

LD 820 S/N: 0996

LD CAL200
Calibrator S/N: 2916

Operator: Cynthia Bordash

n*	Measurement Period		
	1:36 PM to 1:56 PM	to	to
	Ln	Ln	Ln
2	68.2		
8	64.9		
25	62.9		
50	61.2		
90	56.5		
99	52.2		
Leq	62.7		
Lmax	81.6		
Lmin	51.1		



* Leq is the average sound level during the measurement period.
 Ln is the sound level exceeded n% of the time during the measurement period.
 Lmax and Lmin are the maximum and minimum sound levels during the measurement period.

Table 18. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #18, 3932 231st

Date: May 1-2, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	34.4		12:00 pm - 1:00 pm	57.7
1:00 am - 2:00 am	34.8		1:00 pm - 2:00 pm	53.6
2:00 am - 3:00 am	34.1		2:00 pm - 3:00 pm	50.7
3:00 am - 4:00 am	36.1		3:00 pm - 4:00 pm	47.8
4:00 am - 5:00 am	37.8		4:00 pm - 5:00 pm	45.8
5:00 am - 6:00 am	40.8		5:00 pm - 6:00 pm	51.2
6:00 am - 7:00 am	44.3		6:00 pm - 7:00 pm	44.1
7:00 am - 8:00 am	43.8		7:00 pm - 8:00 pm	42.1
8:00 am - 9:00 am	53.7		8:00 pm - 9:00 pm	39.3
9:00 am - 10:00 am	55.9		9:00 pm - 10:00 pm	36.7
10:00 am - 11:00 am	57.5		10:00 pm - 11:00 pm	39.1
11:00 am - 12:00 pm	59.8		11:00 pm - 12:00 am	38.0
CNEL:				52.4

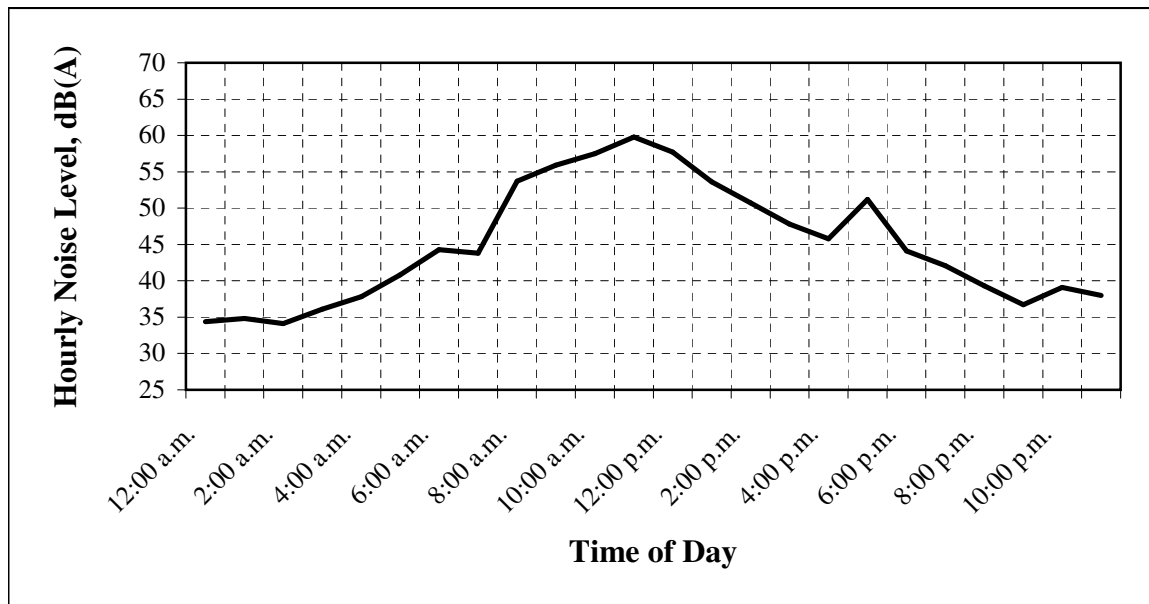


Table 19. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #19, Residence at corner of 236th & Western

Date: March 8-9, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	49.0		12:00 pm - 1:00 pm	57.7
1:00 am - 2:00 am	53.9		1:00 pm - 2:00 pm	58.4
2:00 am - 3:00 am	63.8		2:00 pm - 3:00 pm	57.8
3:00 am - 4:00 am	64.5		3:00 pm - 4:00 pm	57.9
4:00 am - 5:00 am	61.3		4:00 pm - 5:00 pm	58.1
5:00 am - 6:00 am	55.9		5:00 pm - 6:00 pm	58.6
6:00 am - 7:00 am	59.1		6:00 pm - 7:00 pm	57.4
7:00 am - 8:00 am	59.5		7:00 pm - 8:00 pm	56.3
8:00 am - 9:00 am	58.0		8:00 pm - 9:00 pm	55.2
9:00 am - 10:00 am	57.9		9:00 pm - 10:00 pm	54.8
10:00 am - 11:00 am	57.8		10:00 pm - 11:00 pm	52.8
11:00 am - 12:00 pm	57.7		11:00 pm - 12:00 am	50.4
CNEL:				66.0

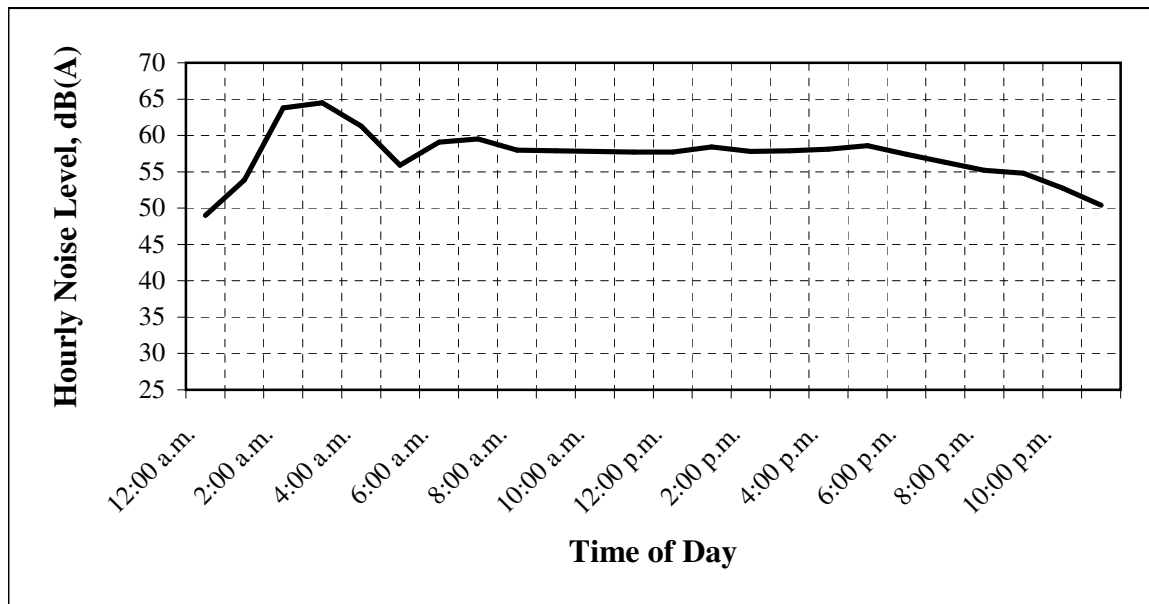


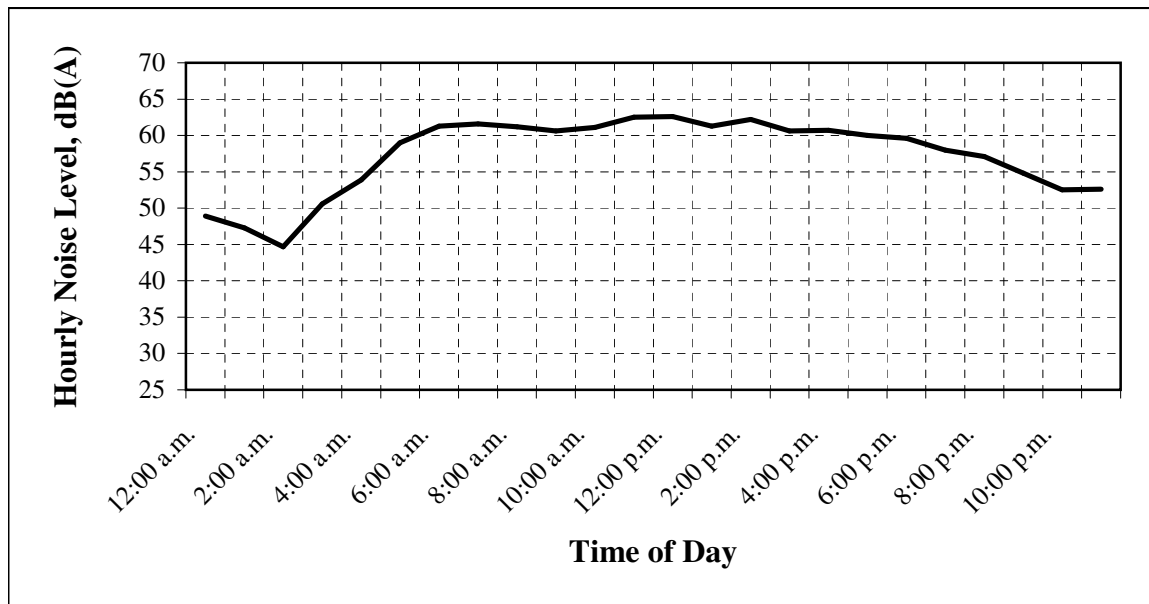
Table 20. Measured Hourly Noise Levels & Community Noise Equivalent Level, CNEL

Project: City of Torrance Noise Element Technical Update

Location: #20, 3241 Cricklewood St.

Date: May 1-2, 2006

Measurement Period	Hourly Noise Level, dB(A)		Measurement Period	Hourly Noise Level, dB(A)
12:00 am - 1:00 am	48.9		12:00 pm - 1:00 pm	62.6
1:00 am - 2:00 am	47.3		1:00 pm - 2:00 pm	61.3
2:00 am - 3:00 am	44.7		2:00 pm - 3:00 pm	62.2
3:00 am - 4:00 am	50.6		3:00 pm - 4:00 pm	60.6
4:00 am - 5:00 am	53.9		4:00 pm - 5:00 pm	60.7
5:00 am - 6:00 am	59.0		5:00 pm - 6:00 pm	60.0
6:00 am - 7:00 am	61.3		6:00 pm - 7:00 pm	59.6
7:00 am - 8:00 am	61.6		7:00 pm - 8:00 pm	58.0
8:00 am - 9:00 am	61.2		8:00 pm - 9:00 pm	57.1
9:00 am - 10:00 am	60.6		9:00 pm - 10:00 pm	54.8
10:00 am - 11:00 am	61.1		10:00 pm - 11:00 pm	52.5
11:00 am - 12:00 pm	62.5		11:00 pm - 12:00 am	52.6
CNEL:				63.3



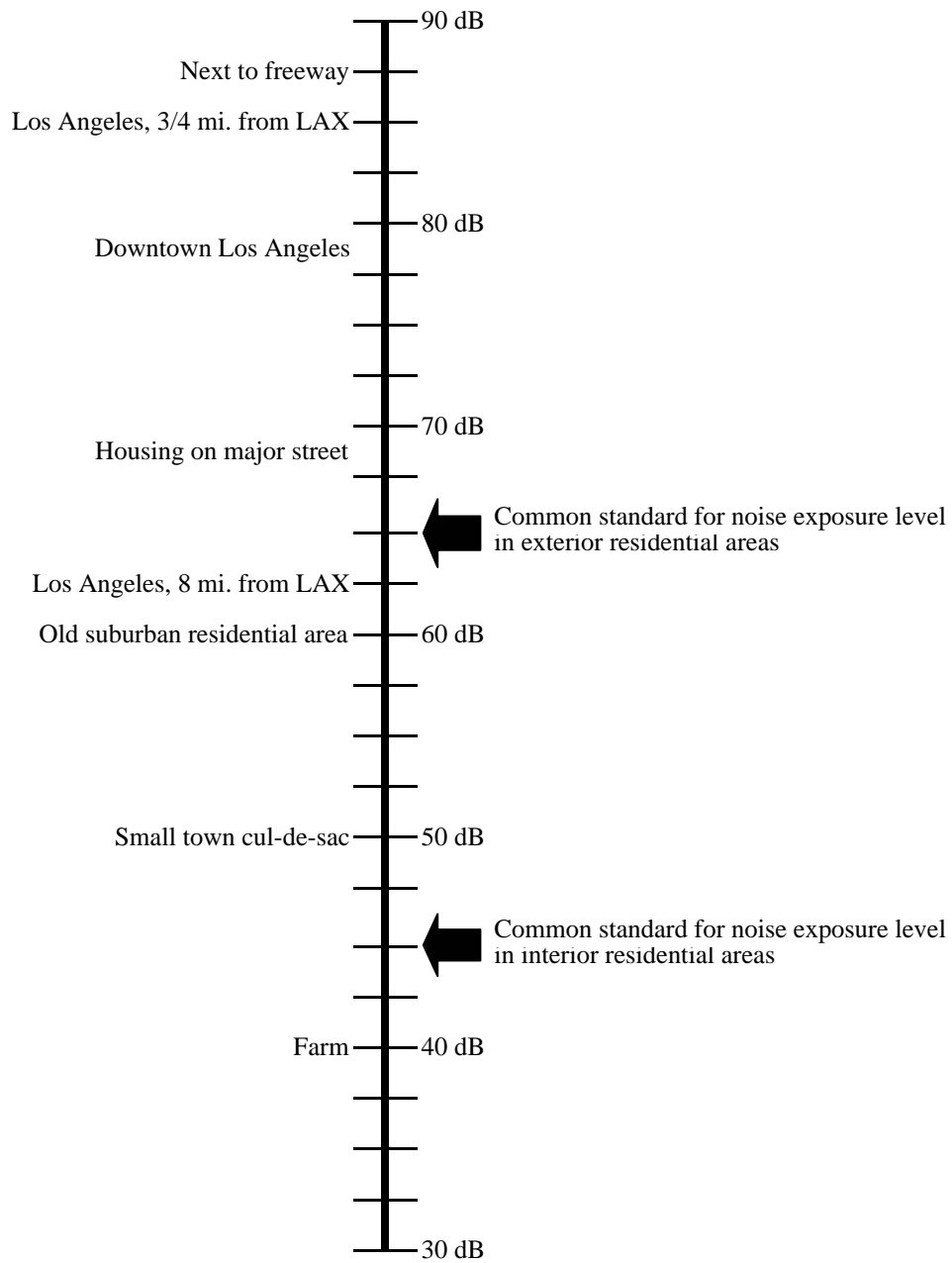


Table E-1. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				182ND STREET								
West City Limits to Hawthorne Blvd	1	30	AT	1.8%	0.7%	13,340	65.5	143	56	---	---	---
Hawthorne Blvd to Prairie Ave	4	35	AT	1.8%	0.7%	9,510	64.0	110	---	---	---	---
Prairie Ave to Yukon Ave	4	35	AT	1.8%	0.7%	17,568	66.5	170	69	---	---	---
Yukon Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	18,523	66.5	170	69	---	---	---
Crenshaw to Van Ness Ave	4	35	AT	1.8%	0.7%	14,585	65.5	143	56	---	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	16,041	66.0	155	62	---	---	---
190TH STREET												
West City Limits to Anza Ave	4	35	AT	1.8%	0.7%	36,912	69.5	278	120	---	---	---
Anza Ave to Hawthorne Blvd	4	35	AT	2.0%	2.0%	36,281	70.5	320	143	56	---	---
Hawthorne Blvd to Prairie Ave	4	40	AT	1.8%	0.7%	31,271	70.5	320	143	56	---	---
Prairie Ave to Yukon Ave	4	40	AT	1.8%	0.7%	42,680	72.0	395	185	75	---	---
Yukon Ave to Crenshaw Blvd	4	40	AT	2.0%	2.0%	50,466	73.0	460	215	90	---	---
Crenshaw Blvd to Van Ness Ave	4	40	AT	1.8%	0.7%	35,737	71.0	340	155	62	---	---
Van Ness Ave to Western Ave	4	40	AT	1.8%	0.7%	38,899	71.5	368	170	69	---	---
223RD STREET												
West of Western Ave	5	40	AT	1.8%	0.7%	15,395	67.0	185	75	---	---	---
235TH STREET												
Sepulveda Blvd to Nadine Circle	1	35	AT	1.8%	0.7%	11,285	66.0	155	62	---	---	---
Nadine Circle to Juniper Ave	1	35	AT	1.8%	0.7%	11,991	66.0	155	62	---	---	---
Juniper Ave to Crenshaw Blvd	1	35	AT	1.8%	0.7%	11,832	66.0	155	62	---	---	---
Crenshaw Blvd to Arlington Ave	1	25	AT	1.8%	0.7%	6,601	60.5	56	---	---	---	---
Arlington Ave to Cabrillo Ave	1	25	AT	1.8%	0.7%	4,581	59.0	---	---	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				ANZA AVENUE								
190th St to Del Amo Blvd	4	35	AT	1.8%	0.7%	25,750	68.0	215	90	---	---	---
Del Amo Blvd to Torrance Blvd	4	35	AT	2.0%	2.0%	28,175	69.5	278	120	---	---	---
Torrance Blvd to Lenore St	4	35	AT	1.8%	0.7%	25,682	68.0	215	90	---	---	---
Lenore St to Carson St	4	35	AT	1.8%	0.7%	25,214	68.0	215	90	---	---	---
Carson St to Sepulveda Blvd	4	35	AT	1.8%	0.7%	25,993	68.0	215	90	---	---	---
Sepulveda Blvd to Calle Mayor	4	30	AT	1.8%	0.7%	29,527	67.5	200	83	---	---	---
Calle Mayor to Pacific Coast Hwy	4	30	AT	1.8%	0.7%	12,658	64.0	110	---	---	---	---
ARLINGTON AVENUE												
Carson St to Sepulveda Blvd	1	30	AT	1.8%	0.7%	6,455	62.5	83	---	---	---	---
Sepulveda Blvd to 235th St	1	35	AT	2.0%	2.0%	16,113	68.5	235	100	---	---	---
ARTESIA BOULEVARD												
Hawthorne Blvd to Prairie Ave	5	40	AT	1.9%	2.8%	32,855	71.5	368	170	69	---	---
Prairie Ave to Yukon Ave	5	40	AT	1.9%	2.8%	39,180	72.5	428	200	83	---	---
Yukon Ave to Crenshaw Blvd	5	40	AT	1.9%	2.8%	28,756	71.0	340	155	62	---	---
Crenshaw Blvd to Van Ness Ave	5	40	AT	1.9%	2.8%	31,805	71.5	368	170	69	---	---
Van Ness Ave to Western Ave	5	40	AT	1.9%	2.8%	35,516	72.0	395	185	75	---	---
CABRILLO AVENUE												
Torrance Blvd to Carson St	4	25	AT	1.8%	0.7%	13,122	62.0	75	---	---	---	---
Carson St to Sepulveda Blvd	4	25	AT	1.8%	0.7%	8,891	60.5	56	---	---	---	---
Sepulveda Blvd to 235th St	1	30	AT	1.8%	0.7%	5,992	62.0	75	---	---	---	---
CALLE MAYOR												
East of Palos Verdes Blvd	1	30	BELOW	1.8%	0.7%	5,855	62.0	64	---	---	---	---
West of Newton St	1	30	AT	1.8%	0.7%	11,738	65.0	130	50	---	---	---
Newton St to Pacific Coast Hwy	1	30	AT	1.8%	0.7%	10,249	64.5	120	---	---	---	---
Pacific Coast Hwy to Anza	4	30	AT	1.8%	0.7%	15,240	65.0	130	50	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				CARSON STREET								
Palos Verdes Blvd to Anza Ave	1	35	AT	1.8%	0.7%	5,855	63.0	90	---	---	---	---
Anza Ave to Hawthorne Blvd	4	35	AT	1.8%	0.7%	13,791	65.5	143	56	---	---	---
Hawthorne Blvd to Madrona Ave	4	35	AT	2.0%	2.0%	29,335	69.5	278	120	---	---	---
Madrona Ave to Maple Ave	4	35	AT	1.8%	0.7%	28,534	68.5	235	100	---	---	---
Maple Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	30,441	69.0	255	110	---	---	---
Crenshaw Blvd to Arlington Ave	4	30	AT	2.0%	2.0%	31,225	69.5	278	120	---	---	---
Arlington Ave to Cabrillo Ave	4	30	AT	1.8%	0.7%	31,703	68.0	215	90	---	---	---
Cabrillo Ave to Western Ave	4	30	AT	1.8%	0.7%	33,613	68.0	215	90	---	---	---
CRENSHAW BOULEVARD												
Redondo Beach Blvd to Artesia Blvd	5	40	AT	2.0%	2.0%	31,251	71.0	340	155	62	---	---
Artesia Blvd to 182nd St	5	40	AT	2.0%	2.0%	35,093	71.5	368	170	69	---	---
182nd St to 190th St	5	40	AT	1.8%	0.7%	58,156	73.0	460	215	90	---	---
190th St to Del Amo Blvd	5	40	AT	2.0%	2.0%	48,649	73.0	460	215	90	---	---
Del Amo Blvd to Maricopa St	6	45	AT	1.8%	0.7%	43,328	72.5	428	200	83	---	---
Maricopa St to Torrance Blvd	6	45	AT	1.8%	0.7%	43,000	72.5	428	200	83	---	---
Torrance Blvd to Carson St	6	45	AT	1.8%	0.7%	48,554	73.0	460	215	90	---	---
Carson St to Sepulveda Blvd	6	45	AT	1.8%	0.7%	59,554	74.0	520	255	110	---	---
Sepulveda Blvd to 235th St	6	45	AT	1.8%	0.7%	52,664	73.5	490	235	100	---	---
235th St to Lomita Blvd	6	45	AT	1.8%	0.7%	52,300	73.5	490	235	100	---	---
Lomita Blvd to Skypark Dr	6	45	AT	2.0%	2.0%	45,663	73.5	490	235	100	---	---
Skypark Dr to Pacific Coast Hwy	6	45	AT	1.8%	0.7%	49,031	73.0	460	215	90	---	---
Pacific Coast Hwy to South City Limit	6	45	AT	2.0%	2.0%	34,384	72.5	428	200	83	---	---
DEL AMO BOULEVARD												
West City Limit to Entradero Ave	5	40	AT	1.8%	0.7%	15,511	67.0	185	75	---	---	---
Entradero Ave to Anza Ave	5	40	AT	2.0%	2.0%	17,650	68.5	235	100	---	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	18,316	68.0	215	90	---	---	---
Hawthorne Blvd to Prairie Ave	5	40	AT	1.8%	0.7%	20,716	68.5	235	100	---	---	---
Prairie Ave to Maple Ave	5	40	AT	1.8%	0.7%	10,973	65.5	143	56	---	---	---
Crenshaw Blvd to Van Ness Ave	4	35	AT	1.8%	0.7%	9,652	64.0	110	---	---	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	9,481	64.0	110	---	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				EMERALD STREET								
Henrietta St to Victor St	1	25	AT	1.8%	0.7%	700	52.0	---	---	---	---	---
Victor St to Anza Ave	1	25	AT	1.8%	0.7%	3,653	58.0	---	---	---	---	---
Anza Ave to Hawthorne Blvd	1	25	AT	1.8%	0.7%	5,778	60.0	50	---	---	---	---
East of Hawthorne Blvd	1	25	AT	1.8%	0.7%	7,220	61.0	62	---	---	---	---
West of Prairie Ave	1	25	AT	1.8%	0.7%	5,532	60.0	50	---	---	---	---
ENTRADERO STREET												
190th St to Del Amo Blvd	1	25	AT	1.8%	0.7%	3,864	58.5	---	---	---	---	---
HAWTHORNE BOULEVARD												
Redondo Beach Blvd to Artesia Blvd	4	35	AT	2.1%	0.6%	54,227	71.5	368	170	69	---	---
Artesia Blvd to 182nd St	4	35	AT	2.4%	0.7%	64,510	72.5	428	200	83	---	---
182nd St to 190th St	4	35	AT	2.4%	0.7%	64,415	72.0	395	185	75	---	---
190th St to Del Amo Blvd	5	40	AT	2.4%	0.7%	66,561	73.5	490	235	100	---	---
Del Amo Blvd to Torrance Blvd	5	40	AT	2.4%	0.7%	65,625	73.5	490	235	100	---	---
Torrance Blvd to Carson St	5	40	AT	2.3%	0.6%	69,040	73.5	490	235	100	---	---
Carson St to Sepulveda Blvd	5	40	AT	2.3%	0.6%	63,226	73.5	490	235	100	---	---
South of Sepulveda Blvd	5	40	AT	2.3%	0.6%	70,912	74.0	520	255	110	---	---
North of Lomita Blvd	5	40	AT	2.3%	0.6%	67,446	73.5	490	235	100	---	---
Lomita Blvd to Skypark Dr	5	40	AT	2.3%	0.6%	54,008	72.5	428	200	83	---	---
Skypark Dr to Pacific Coast Hwy	5	40	AT	2.3%	0.6%	48,832	72.0	395	185	75	---	---
Pacific Coast Hwy to South City Limit	5	40	AT	1.8%	0.7%	38,342	71.0	340	155	62	---	---
HENRIETTA STREET												
Torrance Blvd to Del Amo Blvd	1	35	AT	1.8%	0.7%	4,153	61.5	69	---	---	---	---
LOMITA BOULEVARD												
Anza Ave to Hawthorne Blvd	4	35	AT	1.8%	0.7%	14,908	66.0	155	62	---	---	---
Hawthorne Blvd to Madison St	6	45	AT	1.8%	0.7%	36,422	72.0	395	185	75	---	---
Madison St to Crenshaw Blvd	6	45	AT	2.0%	2.0%	35,502	72.5	428	200	83	---	---
MADISON STREET												
Lomita Blvd to Pacific Coast Hwy	4	35	BELOW	1.8%	0.7%	13,511	65.5	80	54	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				MADRONA AVENUE								
Del Amo Blvd to Torrance Blvd	5	40	AT	1.8%	0.7%	29,142	70.0	300	130	50	---	---
Torrance Blvd to Carson St	5	40	AT	1.8%	0.7%	30,466	70.0	300	130	50	---	---
Carson St to Sepulveda Blvd	4	35	AT	1.8%	0.7%	20,197	67.0	185	75	---	---	---
224th St to 229th St	1	35	AT	1.8%	0.7%	220	51.5	---	---	---	---	---
MAPLE AVENUE												
Del Amo Blvd to Columbia St	4	25	AT	1.8%	0.7%	9,737	61.0	62	---	---	---	---
Columbia St to Maricopa St	4	25	AT	1.8%	0.7%	10,013	61.0	62	---	---	---	---
Maricopa St to Torrance Blvd	1	25	AT	1.8%	0.7%	10,639	62.5	83	---	---	---	---
Torrance Blvd to Carson St	1	25	AT	1.8%	0.7%	8,150	61.5	69	---	---	---	---
Carson St to Sepulveda Blvd	4	25	BELOW	1.8%	0.7%	9,490	61.0	57	---	---	---	---
MARICOPA STREET												
Maple Ave to Crenshaw Blvd	1	35	AT	1.8%	0.7%	7,233	64.0	110	---	---	---	---
NEWTON STREET												
Calle Mayor to Vista Montana	1	25	AT	1.8%	0.7%	2,898	57.5	---	---	---	---	---
East of Vista Montana	1	25	AT	1.8%	0.7%	6,253	60.5	56	---	---	---	---
West of Hawthorne Blvd	1	25	AT	1.8%	0.7%	3,678	58.5	---	---	---	---	---
OCEAN AVENUE												
Torrance Blvd to Carson St	1	25	AT	1.8%	0.7%	1,474	55.0	---	---	---	---	---
Carson St to Sepulveda Blvd	1	25	AT	1.8%	0.7%	424	50.5	---	---	---	---	---
Sepulveda Blvd to Lomita Blvd	1	25	AT	1.8%	0.7%	7,920	61.5	69	---	---	---	---
Lomita Blvd to Pacific Coast Hwy	1	25	AT	1.8%	0.7%	3,858	58.5	---	---	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
PACIFIC COAST HIGHWAY												
West of Palos Verdes Blvd	6	45	AT	2.6%	0.8%	26,780	70.5	320	143	56	---	---
Palos Verdes Blvd to Calle Mayor	6	45	AT	2.6%	0.8%	33,091	71.5	368	170	69	---	---
Calle Mayor to Ocean Ave	6	45	AT	2.6%	0.8%	33,564	71.5	368	170	69	---	---
Ocean Ave to Hawthorne Blvd	6	45	AT	2.6%	0.8%	42,497	72.5	428	200	83	---	---
Hawthorne Blvd to Madison St	6	45	AT	2.8%	1.0%	41,269	73.0	460	215	90	---	---
Madison St to Crenshaw Blvd	6	45	AT	2.8%	1.0%	39,566	72.5	428	200	83	---	---
Crenshaw Blvd to East City Limit	4	35	AT	3.0%	1.7%	48,110	72.0	395	185	75	---	---
PALOS VERDES BOULEVARD												
Torrance Blvd to Sepulveda Blvd	1	30	AT	1.8%	0.7%	8,206	63.5	100	---	---	---	---
South of Sepulveda Blvd	4	30	AT	2.0%	2.0%	14,232	66.0	155	62	---	---	---
North of Pacific Coast Hwy	4	30	AT	1.8%	0.7%	13,964	64.5	120	---	---	---	---
Pacific Coast Hwy to Catalina Ave	4	30	AT	1.8%	0.7%	21,496	66.5	170	69	---	---	---
Catalina Ave to Calle Miramar	4	30	AT	2.0%	2.0%	24,766	68.5	235	100	---	---	---
Calle Miramar to Calle Mayor	4	30	AT	1.8%	0.7%	23,003	66.5	170	69	---	---	---
Calle Mayor to South City Limit	1	30	AT	1.8%	0.7%	17,997	66.5	170	69	---	---	---
PRAIRIE AVENUE												
Redondo Beach Blvd to Artesia Blvd	4	35	AT	1.8%	0.7%	48,732	71.0	340	155	62	---	---
Artesia Blvd to 182nd St	4	35	AT	1.8%	0.7%	56,200	71.5	368	170	69	---	---
182nd St to 190th St	5	40	AT	1.8%	0.7%	38,000	71.0	340	155	62	---	---
190th St to Del Amo Blvd	5	40	AT	2.0%	2.0%	50,126	73.0	460	215	90	---	---
REDONDO BEACH BOULEVARD												
Hawthorne Blvd to I-405	4	35	AT	1.8%	0.7%	21,260	67.0	185	75	---	---	---
I-405 to Yukon Ave	4	35	AT	2.0%	2.0%	34,270	70.5	320	143	56	---	---
Yukon Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	30,834	69.0	255	110	---	---	---
Crenshaw Blvd to Van Ness Ave	4	35	AT	2.0%	2.0%	29,080	69.5	278	120	---	---	---
ROLLING HILLS ROAD												
Hawthorne Blvd to Crenshaw Blvd	4	35	AT	1.8%	0.7%	9,879	64.0	---	---	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				SEPULVEDA BOULEVARD								
West of Palos Verdes Blvd	5	40	BELOW	1.8%	0.7%	14,940	67.0	86	64	---	---	---
Palos Verdes Blvd to Anza Ave	5	40	AT	2.0%	2.0%	24,016	70.0	300	130	50	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	27,465	69.5	278	120	---	---	---
Hawthorne Blvd to Madrona Ave	5	40	AT	1.8%	0.7%	42,431	71.5	368	170	69	---	---
Madrona Ave to Maple Ave	5	40	AT	2.0%	2.0%	48,668	73.0	460	215	90	---	---
Maple Ave to Crenshaw Blvd	5	40	AT	1.8%	0.7%	41,488	71.5	368	170	69	---	---
Crenshaw Blvd to Arlington Ave	5	40	AT	1.8%	0.7%	47,517	72.0	395	185	75	---	---
Arlington Ave to Cabrillo Ave	5	40	AT	2.0%	2.0%	48,541	73.0	460	215	90	---	---
Cabrillo Ave to Western Ave	5	40	AT	1.8%	0.7%	47,053	72.0	395	185	75	---	---
SKYPARK DRIVE												
East of Madison St	5	40	AT	1.8%	0.7%	20,965	68.5	235	100	---	---	---
West of Crenshaw Blvd	5	40	AT	1.8%	0.7%	21,885	68.5	235	100	---	---	---
SPENCER STREET												
Victor St to Anza Ave	1	25	AT	1.8%	0.7%	4,940	59.5	---	---	---	---	---
Anza Ave to Hawthorne Blvd	1	25	AT	1.8%	0.7%	5,135	59.5	---	---	---	---	---
TORRANCE BOULEVARD												
West City Limit to Henrietta St	5	40	AT	1.8%	0.7%	27,000	69.5	278	120	---	---	---
Henrietta St to Victor St	5	40	AT	1.8%	0.7%	32,181	70.5	320	143	56	---	---
Victor St to Anza Ave	5	40	AT	2.0%	2.0%	32,148	71.0	340	155	62	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	32,207	70.5	320	143	56	---	---
Hawthorne Blvd to Madrona Ave	5	40	AT	1.8%	0.7%	35,746	71.0	340	155	62	---	---
Madrona Ave to Maple Ave	4	35	AT	2.0%	2.0%	36,884	70.5	320	143	56	---	---
Maple Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	33,987	69.5	278	120	---	---	---
Crenshaw Blvd to Arlington Ave	4	35	AT	1.8%	0.7%	37,114	69.5	278	120	---	---	---
Arlington Ave to Van Ness Ave	4	35	AT	2.0%	2.0%	33,019	70.0	300	130	50	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	30,120	68.5	235	100	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				VAN NESS AVENUE								
South of Redondo Beach Blvd	4	35	AT	1.8%	0.7%	12,875	65.0	130	50	---	---	---
North of Artesia Blvd	4	35	AT	1.8%	0.7%	13,972	65.5	143	56	---	---	---
Artesia Blvd to 182nd St	4	35	AT	1.8%	0.7%	15,797	66.0	155	62	---	---	---
182nd St to I-405	4	35	AT	1.8%	0.7%	14,160	65.5	143	56	---	---	---
I-405 to 190th St	4	35	AT	1.8%	0.7%	15,714	66.0	155	62	---	---	---
190th St to Del Amo Blvd	4	35	AT	2.0%	2.0%	18,485	67.5	200	83	---	---	---
Del Amo Blvd to Torrance Blvd	4	35	AT	1.8%	0.7%	15,507	66.0	155	62	---	---	---
VICTOR STREET												
Del Amo Blvd to Torrance Blvd	1	35	AT	1.8%	0.7%	4,420	62.0	75	---	---	---	---
WESTERN AVENUE												
Artesia Blvd to 182nd St	5	40	AT	1.8%	0.7%	31,867	70.0	300	130	50	---	---
182nd St to 190th St	5	40	AT	2.0%	2.0%	32,493	71.0	340	155	62	---	---
190th St to Del Amo Blvd	5	40	AT	4.0%	1.2%	42,751	72.5	428	200	83	---	---
Del Amo Blvd to Torrance Blvd	5	40	AT	4.0%	1.2%	33,508	71.5	368	170	69	---	---
Torrance Blvd to Carson St	5	40	AT	4.0%	1.2%	32,172	71.0	340	155	62	---	---
Carson St to Sepulveda Blvd	5	40	AT	4.0%	1.2%	34,588	71.5	368	170	69	---	---
Sepulveda Blvd to 235th St	5	40	AT	4.0%	1.2%	32,449	71.0	340	155	62	---	---
South of 235th St	5	40	AT	4.0%	1.2%	31,749	71.0	340	155	62	---	---
YUKON AVENUE												
Redondo Beach Blvd to Artesia Blvd	1	25	AT	1.8%	0.7%	4,949	59.5	---	---	---	---	---
Artesia Blvd to 182nd St	1	25	AT	1.8%	0.7%	3,995	58.5	---	---	---	---	---
182nd St to 190th St	1	25	AT	1.8%	0.7%	3,576	58.0	---	---	---	---	---

Table E-1, cont. Distance to Existing (2005) CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic 2005	CNEL @ 50' From Near Lane C/L 2005	Distance to Existing Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				<i>I-405 FREEWAY (WITHOUT SOUND WALL)</i>								
Redondo Beach Blvd to Crenshaw Blvd	8	65	ABOVE	2.4%	2.2%	248,000	84.5	1,575	1,000	560	230	---
Crenshaw Blvd to Western Ave	8	65	ABOVE	2.4%	2.2%	255,000	84.5	1,575	1,000	560	230	---
<i>I-405 FREEWAY (WITH SOUND WALL)</i>												
Redondo Beach Blvd to Crenshaw Blvd	8	65	ABOVE	2.4%	2.2%	248,000	78.5	905	490	98	---	---
Crenshaw Blvd to Western Ave	8	65	ABOVE	2.4%	2.2%	255,000	78.5	905	490	98	---	---

* Arterial Types: 1) 2 lanes, 35 mph or less; 2) 2 lanes, 40 mph; 3) 2 lanes, 45 mph or more; 4) 4-6 lanes, 35 mph or less; 5) 4-6 lanes, 40 mph; 6) 4-6 lanes, 45 mph or more; 7) 4-6 lane freeway, 55 mph or more; 8) 8 lane freeway, 55 mph or more.

Notes:

AT', 'ABOVE', and 'BELOW' refer to the elevation of the arterial relative to the surrounding area.

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2030	CNEL@ 50' From Near Lane C/L Distance to Future Contours From Near Lane Centerline, feet					
				Med.	Hvy		2030	60dB	65dB	70dB	75dB	80dB
182nd Street												
West City Limits to Hawthorne Boulevard	1	30	AT	1.80%	0.70%	15,341	66	155	62	---	---	---
Hawthorne Boulevard to Prairie Avenue	4	35	AT	1.80%	0.70%	10,937	64.5	120	---	---	---	---
Prairie Avenue to Yukon Avenue	4	35	AT	1.80%	0.70%	20,203	67	185	75	---	---	---
Yukon Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	21,301	67.5	200	83	---	---	---
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	1.80%	0.70%	16,773	66.5	170	69	---	---	---
Van Ness Avenue to Wester Avenue	4	35	AT	1.80%	0.70%	18,447	66.5	170	69	---	---	---
190th Street												
West City Limits to Anza Avenue	4	35	AT	1.80%	0.70%	42,449	70	300	130	50	---	---
Anza Avenue to Hawthorne Boulevard	4	35	AT	2.00%	2.00%	41,723	71	340	155	62	---	---
Hawthorne Boulevard to Prairie Avenue	4	40	AT	1.80%	0.70%	35,962	71	340	155	62	---	---
Prairie Avenue to Yukon Avenue	4	40	AT	1.80%	0.70%	49,082	72.5	428	200	83	---	---
Yukon Avenue to Crenshaw Boulevard	4	40	AT	2.00%	2.00%	58,036	73.5	490	235	100	---	---
Crenshaw Boulevard to Van Ness Avenue	4	40	AT	1.80%	0.70%	41,098	71.5	368	170	69	---	---
Vane Ness Avenue to Western Avenue	4	40	AT	1.80%	0.70%	44,734	72	395	185	75	---	---
223rd Street												
West of Western Avenue	5	40	AT	1.80%	0.70%	17,704	67.5	200	83	---	---	---
235th Street												
Sepulveda Boulevard to Nadine Circle	1	35	AT	1.80%	0.70%	12,978	66.5	170	69	---	---	---
Nadine Circle to Juniper Avneue	1	35	AT	1.80%	0.70%	13,790	66.5	170	69	---	---	---
Juniper Avenue to Crenshaw Boulevard	1	35	AT	1.80%	0.70%	13,607	66.5	170	69	---	---	---
Crenshaw Boulevard to Arlington Avenue	1	25	AT	1.80%	0.70%	7,591	61	62	---	---	---	---
Arlington Avenue to Cabrillo Avenue	1	25	AT	1.80%	0.70%	5,268	59.5	---	---	---	---	---
Anza Avenue												
190th Street to Del Amo Boulevard	4	35	AT	1.80%	0.70%	29,613	68.5	235	100	---	---	---
Del Amo Boulevard to Torrance Boulevard	4	35	AT	2.00%	2.00%	32,401	70	300	130	50	---	---
Torrance Boulevard to Lenore Street	4	35	AT	1.80%	0.70%	29,534	68.5	235	100	---	---	---
Lenore Street to Carson Street	4	35	AT	1.80%	0.70%	28,996	68.5	235	100	---	---	---
Carson Street to Sepulveda Boulevard	4	35	AT	1.80%	0.70%	29,892	68.5	235	100	---	---	---
Sepulveda Boulevard to Calle Mayor	4	30	AT	1.80%	0.70%	33,956	68.5	235	100	---	---	---
Calle Mayor to Pacific Coast Highway	4	30	AT	1.80%	0.70%	14,557	64.5	120	---	---	---	---
Arlington Avenue												
Carson Street to Sepulveda Boulevard	1	30	AT	1.80%	0.70%	7,423	63	90	---	---	---	---
Sepulveda Boulevard to 235th Street	1	35	AT	2.00%	2.00%	18,530	69	255	110	---	---	---
Artesia Boulevard												
Hawthorne Boulevard to Prairie Avenue	5	40	AT	1.90%	2.80%	37,783	72.5	428	200	83	---	---
Prairie Avenue to Yukon Avenue	5	40	AT	1.90%	2.80%	45,057	73	460	215	90	---	---
Yukon Avenue to Crenshaw Boulevard	5	40	AT	1.90%	2.80%	33,069	72	395	185	75	---	---
Crenshaw Boulevard to Van Ness Avenue	5	40	AT	1.90%	2.80%	36,576	72	395	185	75	---	---
Van Ness Avenue to Western Avenue	5	40	AT	1.90%	2.80%	40,843	72.5	428	200	83	---	---

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic	CNEL@ 50'		Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy		2030	2030	60dB	65dB	70dB	75dB	80dB
Cabrillo Avenue													
Torrance Boulevard to Carson Street	4	25	AT	1.80%	0.70%	15,090	63	90	---	---	---	---	
Carson Street to Sepulveda Boulevard	4	25	AT	1.80%	0.70%	10,225	61	62	---	---	---	---	
Sepulveda Boulevard to 235th Street	1	30	AT	1.80%	0.70%	6,891	62.5	83	---	---	---	---	
Calle Mayor													
East of Palos Verdes Boulevard	1	30	BELOW	1.80%	0.70%	6,733	62.5	67	---	---	---	---	
West of Newton Street	1	30	AT	1.80%	0.70%	13,499	65.5	143	56	---	---	---	
Newton Street to Pacific Coast Highway	1	30	AT	1.80%	0.70%	11,786	65	130	50	---	---	---	
Pacific Coast Highway to Anza Avenue	4	30	AT	1.80%	0.70%	17,526	65.5	143	56	---	---	---	
Carson Street													
Palos Verdes Boulevard to Anza Avenue	1	35	AT	1.80%	0.70%	6,733	63.5	100	---	---	---	---	
Anza Avenue to Hawthorne Boulevard	4	35	AT	1.80%	0.70%	15,860	66	155	62	---	---	---	
Hawthorne Boulevard to Madrona Avenue	4	35	AT	2.00%	2.00%	33,735	70.5	320	143	56	---	---	
Madrona Avenue to Maple Avenue	4	35	AT	1.80%	0.70%	32,814	69	255	110	---	---	---	
Maple Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	35,007	69.5	278	120	---	---	---	
Crenshaw Boulevard to Arlington Avenue	4	30	AT	2.00%	2.00%	35,909	70	300	130	50	---	---	
Arlington Avenue to Cabrillo Avenue	4	30	AT	1.80%	0.70%	36,458	68.5	235	100	---	---	---	
Cabrillo Avenue to Western Avenue	4	30	AT	1.80%	0.70%	38,655	69	255	110	---	---	---	
Crenshaw Boulevard													
Redondo Beach Boulevard to Artesia Boulevard	5	40	AT	2.00%	2.00%	35,939	71.5	368	170	69	---	---	
Artesia Boulevard to 182nd Street	5	40	AT	2.00%	2.00%	40,357	72	395	185	75	---	---	
182nd Street to 190th Street	5	40	AT	1.80%	0.70%	66,879	73.5	490	235	100	---	---	
190th Street to Del Amo Boulevard	5	40	AT	2.00%	2.00%	55,946	73.5	490	235	100	---	---	
Del Amo Boulevard to Maricopa Street	6	45	AT	1.80%	0.70%	49,827	73.5	490	235	100	---	---	
Maricopa Street to Torrance Boulevard	6	45	AT	1.80%	0.70%	49,450	73	460	215	90	---	---	
Torrance Boulevard to Ca]	6	45	AT	1.80%	0.70%	55,837	74	520	255	110	---	---	
Carson Street to Sepulveda Boulevard	6	45	AT	1.80%	0.70%	68,487	75	600	300	130	50	---	
Sepulveda Boulevard to 235th Street	6	45	AT	1.80%	0.70%	60,564	74	520	255	110	---	---	
235th Street to Lomita Boulevard	6	45	AT	1.80%	0.70%	60,145	74	520	255	110	---	---	
Lomita Boulevard to Skypark Drive	6	45	AT	2.00%	2.00%	52,512	74.5	560	278	120	---	---	
Skypark Drive to Pacific Coast Highway	6	45	AT	1.80%	0.70%	56,386	74	520	255	110	---	---	
Pacific Coast Highway to South City Limit	6	45	AT	2.00%	2.00%	39,542	73	460	215	90	---	---	
Del Amo Boulevard													
West City Limit to Entradero Avenue	5	40	AT	1.80%	0.70%	17,838	67.5	200	83	---	---	---	
Entradero Avenue to Anza Avenue	5	40	AT	2.00%	2.00%	20,298	69	255	110	---	---	---	
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	21,063	68.5	235	100	---	---	---	
Hawthorne Boulevard to Prairie Avenue	5	40	AT	1.80%	0.70%	23,823	69	255	110	---	---	---	
Prairie Avenue to Maple Avenue	5	40	AT	1.80%	0.70%	12,619	66.5	170	69	---	---	---	
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	1.80%	0.70%	11,100	64.5	120	---	---	---	---	
Van Ness Avenue to Western Avenue	4	35	AT	1.80%	0.70%	10,903	64.5	120	---	---	---	---	

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic	CNEL @ 50' From Near Lane C/L Distance to Future Contours From Near Lane Centerline, feet					
				Med.	Hvy		2030	2030	60dB	65dB	70dB	75dB
Emerald Street												
Henrietta Street to Victor Street	1	25	AT	1.80%	0.70%	805	52.5	---	---	---	---	---
Victor Street to Anza Avenue	1	25	AT	1.80%	0.70%	4,201	59	---	---	---	---	---
Anza Avenue to Hawthorne Boulevard	1	25	AT	1.80%	0.70%	6,645	60.5	56	---	---	---	---
East of Hawthorne Boulevard	1	25	AT	1.80%	0.70%	8,303	61.5	69	---	---	---	---
West of Prairie Avenue	1	25	AT	1.80%	0.70%	6,362	60.5	56	---	---	---	---
Entradero Street												
190th Street to Del Amo Boulevard	1	25	AT	1.80%	0.70%	4,444	59	---	---	---	---	---
Hawthorne Boulevard												
Redondo Beach Boulevard to Artesia Boulevard	4	35	AT	2.10%	0.60%	62,361	72	395	185	75	---	---
Artesia Boulevard to 182nd Street	4	35	AT	2.40%	0.70%	74,187	73	460	215	90	---	---
182nd Street to 190th Street	4	35	AT	2.40%	0.70%	74,077	73	460	215	90	---	---
190th Street to Del Amo Boulevard	5	40	AT	2.40%	0.70%	76,545	74.5	560	278	120	---	---
Del Amo Boulevard to Torrance Boulevard	5	40	AT	2.40%	0.70%	75,469	74.5	560	278	120	---	---
Torrance Boulevard to Carson Street	5	40	AT	2.30%	0.60%	79,396	74.5	560	278	120	---	---
Carson Street to Sepulveda Boulevard	5	40	AT	2.30%	0.60%	72,710	74	520	255	110	---	---
South of Sepulveda Boulevard	5	40	AT	2.30%	0.60%	81,549	74.5	560	278	120	---	---
North of Lomita Boulevard	5	40	AT	2.30%	0.60%	77,563	74.5	560	278	120	---	---
Lomita Boulevard to Skypark Drive	5	40	AT	2.30%	0.60%	62,109	73.5	490	235	100	---	---
Skypark Drive to Pacific Coast Highway	5	40	AT	2.30%	0.60%	56,157	73	460	215	90	---	---
Pacific Coast Highway to South City Limit	5	40	AT	1.80%	0.70%	44,093	71.5	368	170	69	---	---
Henrietta Street												
Torrance Boulevard to Del Amo Boulevard	1	35	AT	1.80%	0.70%	4,776	62.5	83	---	---	---	---
Lomita Boulevard												
Anza Avenue to Hawthorne Boulevard	4	35	AT	1.80%	0.70%	17,144	66.5	170	69	---	---	---
Hawthorne Boulevard to Madison Street	6	45	AT	1.80%	0.70%	41,885	72.5	428	200	83	---	---
Madison Street to Crenshaw Boulevard	6	45	AT	2.00%	2.00%	40,827	73	460	215	90	---	---
Madison Street												
Lomita Boulevard to Pacific Coast Highway	4	35	BELOW	1.80%	0.70%	15,538	66	82	57	---	---	---
Madrone Avenue												
Del Amo Boulevard to Torrance Boulevard	5	40	AT	1.80%	0.70%	33,513	70.5	320	143	56	---	---
Torrance Boulevard to Carson Street	5	40	AT	1.80%	0.70%	35,036	70.5	320	143	56	---	---
Carson Street to Sepulveda Boulevard	4	35	AT	1.80%	0.70%	23,227	67.5	200	83	---	---	---
224th Street to 229th Street	1	35	AT	1.80%	0.70%	253	51.5	---	---	---	---	---
Maple Avenue												
Del Amo Boulevard to Columbia Street	4	25	AT	1.80%	0.70%	11,198	61.5	69	---	---	---	---
Columbia Street to Maricopa Street	4	25	AT	1.80%	0.70%	11,515	61.5	69	---	---	---	---
Maricopa Street to Torrance Boulevard	1	25	AT	1.80%	0.70%	12,235	63	90	---	---	---	---
Torrance Boulevard to Carson Street	1	25	AT	1.80%	0.70%	9,373	62	75	---	---	---	---
Carson Street to Sepulveda Boulevard	4	25	BELOW	1.80%	0.70%	10,914	61.5	61	---	---	---	---

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic	CNEL@ 50'		Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy		2030	2030	60dB	65dB	70dB	75dB	80dB
Maricopa Street													
Maple Avenue to Crenshaw Boulevard	1	35	AT	1.80%	0.70%	8,318	64.5	120	---	---	---	---	
Newton Street													
Calle Mayor to Vista Montana	1	25	AT	1.80%	0.70%	3,333	58	---	---	---	---	---	
East of Vista Montana	1	25	AT	1.80%	0.70%	7,191	61	62	---	---	---	---	
West of Hawthorne Boulevard	1	25	AT	1.80%	0.70%	4,230	59	---	---	---	---	---	
Ocean Avenue													
Torrance Boulevard to Carson Street	1	25	AT	1.80%	0.70%	1,695	55.5	---	---	---	---	---	
Carson Street to Sepulveda Boulevard	1	25	AT	1.80%	0.70%	488	51	---	---	---	---	---	
Sepulveda Boulevard to Lomita Boulevard	1	25	AT	1.80%	0.70%	9,108	62	75	---	---	---	---	
Lomita Boulevard to Pacific Coast Highway	1	25	AT	1.80%	0.70%	4,437	59	---	---	---	---	---	
Pacific Coast Highway													
West of Palos Verdes Boulevard	6	45	AT	2.60%	0.80%	30,797	71.5	368	170	69	---	---	
Palos Verdes Boulevard to Calle Mayor	6	45	AT	2.60%	0.80%	38,055	72	395	185	75	---	---	
Calle Mayor to Ocean Avenue	6	45	AT	2.60%	0.80%	38,599	72.5	428	200	83	---	---	
Ocean Avenue to Hawthorne Boulevard	6	45	AT	2.60%	0.80%	48,872	73.5	490	235	100	---	---	
Hawthorne Boulevard to Madison Street	6	45	AT	2.80%	1.00%	47,459	73.5	490	235	100	---	---	
Madison Street to Crenshaw Boulevard	6	45	AT	2.80%	1.00%	45,501	73	460	215	90	---	---	
Crenshaw Boulevard to East City Limit	4	35	AT	3.00%	1.70%	55,327	72.5	428	200	83	---	---	
Palos Verdes Boulevard													
Torrance Boulevard to Sepulveda Boulevard	1	30	AT	1.80%	0.70%	9,437	64	110	---	---	---	---	
South of Sepulveda Boulevard	4	30	AT	2.00%	2.00%	16,367	66.5	170	69	---	---	---	
North of Pacific Coast Highway	4	30	AT	1.80%	0.70%	16,059	65	130	50	---	---	---	
Pacific Coast Highway to Catalina Avenue	4	30	AT	1.80%	0.70%	24,720	67	185	75	---	---	---	
Catalina Avenue to Calle Miramar	4	30	AT	2.00%	2.00%	28,481	69	255	110	---	---	---	
Calle Miramar to Calle Mayor	4	30	AT	1.80%	0.70%	26,453	67	185	75	---	---	---	
Calle Mayor to South City Limit	1	30	AT	1.80%	0.70%	20,697	67.5	200	83	---	---	---	
Prairie Avenue													
Redondo Beach Boulevard to Artesia Boulevard	4	35	AT	1.80%	0.70%	56,042	71.5	368	170	69	---	---	
Artesia Boulevard to 182nd Street	4	35	AT	1.80%	0.70%	64,630	72	395	185	75	---	---	
182nd Street to 190th Street	5	40	AT	1.80%	0.70%	43,700	71.5	368	170	69	---	---	
190th Street to Del Amo Boulevard	5	40	AT	2.00%	2.00%	57,645	74	520	255	110	---	---	
Redondo Beach Boulevard													
Hawthorne Boulevard to I-405	4	35	AT	1.80%	0.70%	24,449	68	215	90	---	---	---	
I-405 to Yukon Avenue	4	35	AT	2.00%	2.00%	39,411	71	340	155	62	---	---	
Yukon Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	35,459	69.5	278	120	---	---	---	
Crenshaw Boulevard to Van Ness Avenue	4	35	AT	2.00%	2.00%	33,442	70.5	320	143	56	---	---	
Rolling Hills Road													
Hawthorn Boulevard to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	11,361	64.5	---	---	---	---	---	

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2030	CNEL@ 50' From Near Lane C/L		Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy		2030	2030	60dB	65dB	70dB	75dB	80dB
Sepulveda Boulevard													
West of Palos Verdes Boulevard	5	40	BELOW	1.80%	0.70%	17,181	67.5	88	67	---	---	---	
Palos Verdes Boulevard to Anza Avenue	5	40	AT	2.00%	2.00%	27,618	70.5	320	143	56	---	---	
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	31,585	70	300	130	50	---	---	
Hawthorne Boulevard to Madrona Avenue	5	40	AT	1.80%	0.70%	48,796	72	395	185	75	---	---	
Madrona Avenue to Maple Avenue	5	40	AT	2.00%	2.00%	55,968	73.5	490	235	100	---	---	
Maple Avenue to Crenshaw Boulevard	5	40	AT	1.80%	0.70%	47,711	72	395	185	75	---	---	
Crenshaw Boulevard to Arlington Avenue	5	40	AT	1.80%	0.70%	54,645	72.5	428	200	83	---	---	
Arlington Avenue to Cabrillo Avenue	5	40	AT	2.00%	2.00%	55,822	73.5	490	235	100	---	---	
Cabrillo Avenue to Western Avenue	5	40	AT	1.80%	0.70%	54,111	72.5	428	200	83	---	---	
Skypark Drive													
East of Madison Avenue	5	40	AT	1.80%	0.70%	24,110	69	255	110	---	---	---	
West of Crenshaw Boulevard	5	40	AT	1.80%	0.70%	25,168	69	255	110	---	---	---	
Spencer Street													
Victor Street to Anza Avenue	1	25	AT	1.80%	0.70%	5,681	60	50	---	---	---	---	
Anza Avenue to Hawthorne Boulevard	1	25	AT	1.80%	0.70%	5,905	60	50	---	---	---	---	
Torrance Boulevard													
West City Limit to Henrietta Street	5	40	AT	1.80%	0.70%	31,050	70	300	130	50	---	---	
Henrietta Street to Victor Street	5	40	AT	1.80%	0.70%	37,008	71	340	155	62	---	---	
Victor Street to Anza Avenue	5	40	AT	2.00%	2.00%	36,970	72	395	185	75	---	---	
Anza Avenue to Hawthorne Boulevard	5	40	AT	1.80%	0.70%	37,038	71	340	155	62	---	---	
Hawthorne Boulevard to Madrona Avenue	5	40	AT	1.80%	0.70%	41,108	71.5	368	170	69	---	---	
Madrona Avenue to Maple Avenue	4	35	AT	2.00%	2.00%	42,417	71.5	368	170	69	---	---	
Maple Avenue to Crenshaw Boulevard	4	35	AT	1.80%	0.70%	39,085	70	300	130	50	---	---	
Crenshaw Boulevard to Arlington Avenue	4	35	AT	1.80%	0.70%	42,681	70.5	320	143	56	---	---	
Arlington Avenue to Van Ness Avenue	4	35	AT	2.00%	2.00%	37,972	71	340	155	62	---	---	
Van Ness Avenue to Western Avenue	4	35	AT	1.80%	0.70%	34,638	69.5	278	120	---	---	---	
Van Ness Avenue													
South of Redondo Beach Boulevard	4	35	AT	1.80%	0.70%	14,806	65.5	143	56	---	---	---	
North of Artesia Boulevard	4	35	AT	1.80%	0.70%	16,068	66	155	62	---	---	---	
Artesia Boulevard to 182nd Street	4	35	AT	1.80%	0.70%	18,167	66.5	170	69	---	---	---	
182nd Street to I-405	4	35	AT	1.80%	0.70%	16,284	66	155	62	---	---	---	
I-405 to 190th Street	4	35	AT	1.80%	0.70%	18,071	66.5	170	69	---	---	---	
190th Street to Del Amo Boulevard	4	35	AT	2.00%	2.00%	21,258	68.5	235	100	---	---	---	
Del Amo Boulevard to Torrance Boulevard	4	35	AT	1.80%	0.70%	17,833	66.5	170	69	---	---	---	
Victor Street													
Del Amo Boulevard to Torrance Boulevard	1	35	AT	1.80%	0.70%	5,083	62.5	83	---	---	---	---	

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial/Reach	Arterial Type*	mph	Elev.	Trucks		Average Daily Traffic 2030	CNEL@ 50' From Near Lane C/L Distance to Future Contours From Near Lane Centerline, feet					
				Med.	Hvy		2030	60dB	65dB	70dB	75dB	80dB
Western Avenue												
Artesia Boulevard to 182nd Street	5	40	AT	1.80%	0.70%	36,647	71	340	155	62	---	---
182nd Street to 190th Street	5	40	AT	2.00%	2.00%	37,367	72	395	185	75	---	---
190th Street to Del Amo Boulevard	5	40	AT	4.00%	1.20%	49,164	73	460	215	90	---	---
Del Amo Boulevard to Torrance Boulevard	5	40	AT	4.00%	1.20%	38,534	72	395	185	75	---	---
Torrance Boulevard to Carson Street	5	40	AT	4.00%	1.20%	36,998	71.5	368	170	69	---	---
Carson Street to Sepulveda Boulevard	5	40	AT	4.00%	1.20%	39,776	72	395	185	75	---	---
Sepulveda Boulevard to 235th Street	5	40	AT	4.00%	1.20%	37,316	71.5	368	170	69	---	---
South of 235th Street	5	40	AT	4.00%	1.20%	36,511	71.5	368	170	69	---	---
Yukon Avenue												
Redondo Beach Boulevard to Artesia Boulevard	1	25	AT	1.80%	0.70%	5,691	60	50	---	---	---	---
Artesia Boulevard to 182nd Street	1	25	AT	1.80%	0.70%	4,594	59	---	---	---	---	---
182nd Street to 190th Street	1	25	AT	1.80%	0.70%	4,112	58.5	---	---	---	---	---
I-405 Freeway (without a sound wall)												
Redondo Beach Boulevard to Crenshaw Bouleva	8	65	ABOVE	2.40%	2.20%	285,200	85	1,650	1,050	600	265	---
Crenshaw Bouelvard to Western Avenue	8	65	ABOVE	2.40%	2.20%	293,250	85	1,650	1,050	600	265	---
I-405 Freeway (with a sound wall)												
Redondo Beach Boulevard to Crenshaw Bouleva	8	65	ABOVE	2.40%	2.20%	285,200	79	950	520	195	---	---
Crenshaw Boulevard to Western Avenue	8	65	ABOVE	2.40%	2.20%	293,250	79	950	520	195	---	---

* Arterial Types: 1) 2 lanes, 35 mph or less; 2) 2 lanes, 40 mph; 3) 2 lanes, 45 mph or more; 4) 4-6 lanes, 35 mph or less; 5) 4-6 lanes, 40 mph; 6) 4-6 lanes, 45 mph or more; 7) 4-6 lane freeway, 55 mph or more; 8) 8 lane freeway, 55 mph or more.

Notes: AT, ABOVE, and BELOW refer to the elvation of the arterial relative to the surrounding area.

Table F-1. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				182ND STREET								
West City Limits to Hawthorne Blvd	1	30	AT	1.8%	0.7%	15,341	66.0	155	62	---	---	---
Hawthorne Blvd to Prairie Ave	4	35	AT	1.8%	0.7%	10,937	64.5	120	---	---	---	---
Prairie Ave to Yukon Ave	4	35	AT	1.8%	0.7%	20,203	67.0	185	75	---	---	---
Yukon Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	21,301	67.5	200	83	---	---	---
Crenshaw to Van Ness Ave	4	35	AT	1.8%	0.7%	16,773	66.5	170	69	---	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	18,447	66.5	170	69	---	---	---
190TH STREET												
West City Limits to Anza Ave	4	35	AT	1.8%	0.7%	42,449	70.0	300	130	50	---	---
Anza Ave to Hawthorne Blvd	4	35	AT	2.0%	2.0%	41,723	71.0	340	155	62	---	---
Hawthorne Blvd to Prairie Ave	4	40	AT	1.8%	0.7%	35,962	71.0	340	155	62	---	---
Prairie Ave to Yukon Ave	4	40	AT	1.8%	0.7%	49,082	72.5	428	200	83	---	---
Yukon Ave to Crenshaw Blvd	4	40	AT	2.0%	2.0%	58,036	73.5	490	235	100	---	---
Crenshaw Blvd to Van Ness Ave	4	40	AT	1.8%	0.7%	41,098	71.5	368	170	69	---	---
Van Ness Ave to Western Ave	4	40	AT	1.8%	0.7%	44,734	72.0	395	185	75	---	---
223RD STREET												
West of Western Ave	5	40	AT	1.8%	0.7%	17,704	67.5	200	83	---	---	---
235TH STREET												
Sepulveda Blvd to Nadine Circle	1	35	AT	1.8%	0.7%	12,978	66.5	170	69	---	---	---
Nadine Circle to Juniper Ave	1	35	AT	1.8%	0.7%	13,790	66.5	170	69	---	---	---
Juniper Ave to Crenshaw Blvd	1	35	AT	1.8%	0.7%	13,607	66.5	170	69	---	---	---
Crenshaw Blvd to Arlington Ave	1	25	AT	1.8%	0.7%	7,591	61.0	62	---	---	---	---
Arlington Ave to Cabrillo Ave	1	25	AT	1.8%	0.7%	5,268	59.5	---	---	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
ANZA AVENUE												
190th St to Del Amo Blvd	4	35	AT	1.8%	0.7%	29,613	68.5	235	100	---	---	---
Del Amo Blvd to Torrance Blvd	4	35	AT	2.0%	2.0%	32,401	70.0	300	130	50	---	---
Torrance Blvd to Lenore St	4	35	AT	1.8%	0.7%	29,534	68.5	235	100	---	---	---
Lenore St to Carson St	4	35	AT	1.8%	0.7%	28,996	68.5	235	100	---	---	---
Carson St to Sepulveda Blvd	4	35	AT	1.8%	0.7%	29,892	68.5	235	100	---	---	---
Sepulveda Blvd to Calle Mayor	4	30	AT	1.8%	0.7%	33,956	68.5	235	100	---	---	---
Calle Mayor to Pacific Coast Hwy	4	30	AT	1.8%	0.7%	14,557	64.5	120	---	---	---	---
ARLINGTON AVENUE												
Carson St to Sepulveda Blvd	1	30	AT	1.8%	0.7%	7,423	63.0	90	---	---	---	---
Sepulveda Blvd to 235th St	1	35	AT	2.0%	2.0%	18,530	69.0	255	110	---	---	---
ARTESIA BOULEVARD												
Hawthorne Blvd to Prairie Ave	5	40	AT	1.9%	2.8%	37,783	72.5	428	200	83	---	---
Prairie Ave to Yukon Ave	5	40	AT	1.9%	2.8%	45,057	73.0	460	215	90	---	---
Yukon Ave to Crenshaw Blvd	5	40	AT	1.9%	2.8%	33,069	72.0	395	185	75	---	---
Crenshaw Blvd to Van Ness Ave	5	40	AT	1.9%	2.8%	36,576	72.0	395	185	75	---	---
Van Ness Ave to Western Ave	5	40	AT	1.9%	2.8%	40,843	72.5	428	200	83	---	---
CABRILLO AVENUE												
Torrance Blvd to Carson St	4	25	AT	1.8%	0.7%	15,090	63.0	90	---	---	---	---
Carson St to Sepulveda Blvd	4	25	AT	1.8%	0.7%	10,225	61.0	62	---	---	---	---
Sepulveda Blvd to 235th St	1	30	AT	1.8%	0.7%	6,891	62.5	83	---	---	---	---
CALLE MAYOR												
East of Palos Verdes Blvd	1	30	BELOW	1.8%	0.7%	6,733	62.5	67	---	---	---	---
West of Newton St	1	30	AT	1.8%	0.7%	13,499	65.5	143	56	---	---	---
Newton St to Pacific Coast Hwy	1	30	AT	1.8%	0.7%	11,786	65.0	130	50	---	---	---
Pacific Coast Hwy to Anza	4	30	AT	1.8%	0.7%	17,526	65.5	143	56	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
				CARSON STREET								
Palos Verdes Blvd to Anza Ave	1	35	AT	1.8%	0.7%	6,733	63.5	100	---	---	---	---
Anza Ave to Hawthorne Blvd	4	35	AT	1.8%	0.7%	15,860	66.0	155	62	---	---	---
Hawthorne Blvd to Madrona Ave	4	35	AT	2.0%	2.0%	33,735	70.5	320	143	56	---	---
Madrona Ave to Maple Ave	4	35	AT	1.8%	0.7%	32,814	69.0	255	110	---	---	---
Maple Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	35,007	69.5	278	120	---	---	---
Crenshaw Blvd to Arlington Ave	4	30	AT	2.0%	2.0%	35,909	70.0	300	130	50	---	---
Arlington Ave to Cabrillo Ave	4	30	AT	1.8%	0.7%	36,458	68.5	235	100	---	---	---
Cabrillo Ave to Western Ave	4	30	AT	1.8%	0.7%	38,655	69.0	255	110	---	---	---
CRENSHAW BOULEVARD												
Redondo Beach Blvd to Artesia Blvd	5	40	AT	2.0%	2.0%	35,939	71.5	368	170	69	---	---
Artesia Blvd to 182nd St	5	40	AT	2.0%	2.0%	40,357	72.0	395	185	75	---	---
182nd St to 190th St	5	40	AT	1.8%	0.7%	66,879	73.5	490	235	100	---	---
190th St to Del Amo Blvd	5	40	AT	2.0%	2.0%	55,946	73.5	490	235	100	---	---
Del Amo Blvd to Maricopa St	6	45	AT	1.8%	0.7%	49,827	73.5	490	235	100	---	---
Maricopa St to Torrance Blvd	6	45	AT	1.8%	0.7%	49,450	73.0	460	215	90	---	---
Torrance Blvd to Carson St	6	45	AT	1.8%	0.7%	55,837	74.0	520	255	110	---	---
Carson St to Sepulveda Blvd	6	45	AT	1.8%	0.7%	68,487	75.0	600	300	130	50	---
Sepulveda Blvd to 235th St	6	45	AT	1.8%	0.7%	60,564	74.0	520	255	110	---	---
235th St to Lomita Blvd	6	45	AT	1.8%	0.7%	60,145	74.0	520	255	110	---	---
Lomita Blvd to Skypark Dr	6	45	AT	2.0%	2.0%	52,512	74.5	560	278	120	---	---
Skypark Dr to Pacific Coast Hwy	6	45	AT	1.8%	0.7%	56,386	74.0	520	255	110	---	---
Pacific Coast Hwy to South City Limit	6	45	AT	2.0%	2.0%	39,542	73.0	460	215	90	---	---
DEL AMO BOULEVARD												
West City Limit to Entradero Ave	5	40	AT	1.8%	0.7%	17,838	67.5	200	83	---	---	---
Entradero Ave to Anza Ave	5	40	AT	2.0%	2.0%	20,298	69.0	255	110	---	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	21,063	68.5	235	100	---	---	---
Hawthorne Blvd to Prairie Ave	5	40	AT	1.8%	0.7%	23,823	69.0	255	110	---	---	---
Prairie Ave to Maple Ave	5	40	AT	1.8%	0.7%	12,619	66.5	170	69	---	---	---
Crenshaw Blvd to Van Ness Ave	4	35	AT	1.8%	0.7%	11,100	64.5	120	---	---	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	10,903	64.5	120	---	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
EMERALD STREET												
Henrietta St to Victor St	1	25	AT	1.8%	0.7%	805	52.5	---	---	---	---	---
Victor St to Anza Ave	1	25	AT	1.8%	0.7%	4,201	59.0	---	---	---	---	---
Anza Ave to Hawthorne Blvd	1	25	AT	1.8%	0.7%	6,645	60.5	56	---	---	---	---
East of Hawthorne Blvd	1	25	AT	1.8%	0.7%	8,303	61.5	69	---	---	---	---
West of Prairie Ave	1	25	AT	1.8%	0.7%	6,362	60.5	56	---	---	---	---
ENTRADERO STREET												
190th St to Del Amo Blvd	1	25	AT	1.8%	0.7%	4,444	59.0	---	---	---	---	---
HAWTHORNE BOULEVARD												
Redondo Beach Blvd to Artesia Blvd	4	35	AT	2.1%	0.6%	62,361	72.0	395	185	75	---	---
Artesia Blvd to 182nd St	4	35	AT	2.4%	0.7%	74,187	73.0	460	215	90	---	---
182nd St to 190th St	4	35	AT	2.4%	0.7%	74,077	73.0	460	215	90	---	---
190th St to Del Amo Blvd	5	40	AT	2.4%	0.7%	76,545	74.5	560	278	120	---	---
Del Amo Blvd to Torrance Blvd	5	40	AT	2.4%	0.7%	75,469	74.5	560	278	120	---	---
Torrance Blvd to Carson St	5	40	AT	2.3%	0.6%	79,396	74.5	560	278	120	---	---
Carson St to Sepulveda Blvd	5	40	AT	2.3%	0.6%	72,710	74.0	520	255	110	---	---
South of Sepulveda Blvd	5	40	AT	2.3%	0.6%	81,549	74.5	560	278	120	---	---
North of Lomita Blvd	5	40	AT	2.3%	0.6%	77,563	74.5	560	278	120	---	---
Lomita Blvd to Skypark Dr	5	40	AT	2.3%	0.6%	62,109	73.5	490	235	100	---	---
Skypark Dr to Pacific Coast Hwy	5	40	AT	2.3%	0.6%	56,157	73.0	460	215	90	---	---
Pacific Coast Hwy to South City Limit	5	40	AT	1.8%	0.7%	44,093	71.5	368	170	69	---	---
HENRIETTA STREET												
Torrance Blvd to Del Amo Blvd	1	35	AT	1.8%	0.7%	4,776	62.5	83	---	---	---	---
LOMITA BOULEVARD												
Anza Ave to Hawthorne Blvd	4	35	AT	1.8%	0.7%	17,144	66.5	170	69	---	---	---
Hawthorne Blvd to Madison St	6	45	AT	1.8%	0.7%	41,885	72.5	428	200	83	---	---
Madison St to Crenshaw Blvd	6	45	AT	2.0%	2.0%	40,827	73.0	460	215	90	---	---
MADISON STREET												
Lomita Blvd to Pacific Coast Hwy	4	35	BELOW	1.8%	0.7%	15,538	66.0	82	57	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
MADRONA AVENUE												
Del Amo Blvd to Torrance Blvd	5	40	AT	1.8%	0.7%	33,513	70.5	320	143	56	---	---
Torrance Blvd to Carson St	5	40	AT	1.8%	0.7%	35,036	70.5	320	143	56	---	---
Carson St to Sepulveda Blvd	4	35	AT	1.8%	0.7%	23,227	67.5	200	83	---	---	---
224th St to 229th St	1	35	AT	1.8%	0.7%	253	51.5	---	---	---	---	---
MAPLE AVENUE												
Del Amo Blvd to Columbia St	4	25	AT	1.8%	0.7%	11,198	61.5	69	---	---	---	---
Columbia St to Maricopa St	4	25	AT	1.8%	0.7%	11,515	61.5	69	---	---	---	---
Maricopa St to Torrance Blvd	1	25	AT	1.8%	0.7%	12,235	63.0	90	---	---	---	---
Torrance Blvd to Carson St	1	25	AT	1.8%	0.7%	9,373	62.0	75	---	---	---	---
Carson St to Sepulveda Blvd	4	25	BELOW	1.8%	0.7%	10,914	61.5	61	---	---	---	---
MARICOPA STREET												
Maple Ave to Crenshaw Blvd	1	35	AT	1.8%	0.7%	8,318	64.5	120	---	---	---	---
NEWTON STREET												
Calle Mayor to Vista Montana	1	25	AT	1.8%	0.7%	3,333	58.0	---	---	---	---	---
East of Vista Montana	1	25	AT	1.8%	0.7%	7,191	61.0	62	---	---	---	---
West of Hawthorne Blvd	1	25	AT	1.8%	0.7%	4,230	59.0	---	---	---	---	---
OCEAN AVENUE												
Torrance Blvd to Carson St	1	25	AT	1.8%	0.7%	1,695	55.5	---	---	---	---	---
Carson St to Sepulveda Blvd	1	25	AT	1.8%	0.7%	488	51.0	---	---	---	---	---
Sepulveda Blvd to Lomita Blvd	1	25	AT	1.8%	0.7%	9,108	62.0	75	---	---	---	---
Lomita Blvd to Pacific Coast Hwy	1	25	AT	1.8%	0.7%	4,437	59.0	---	---	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
PACIFIC COAST HIGHWAY												
West of Palos Verdes Blvd	6	45	AT	2.6%	0.8%	30,797	71.5	368	170	69	---	---
Palos Verdes Blvd to Calle Mayor	6	45	AT	2.6%	0.8%	38,055	72.0	395	185	75	---	---
Calle Mayor to Ocean Ave	6	45	AT	2.6%	0.8%	38,599	72.5	428	200	83	---	---
Ocean Ave to Hawthorne Blvd	6	45	AT	2.6%	0.8%	48,872	73.5	490	235	100	---	---
Hawthorne Blvd to Madison St	6	45	AT	2.8%	1.0%	47,459	73.5	490	235	100	---	---
Madison St to Crenshaw Blvd	6	45	AT	2.8%	1.0%	45,501	73.0	460	215	90	---	---
Crenshaw Blvd to East City Limit	4	35	AT	3.0%	1.7%	55,327	72.5	428	200	83	---	---
PALOS VERDES BOULEVARD												
Torrance Blvd to Sepulveda Blvd	1	30	AT	1.8%	0.7%	9,437	64.0	110	---	---	---	---
South of Sepulveda Blvd	4	30	AT	2.0%	2.0%	16,367	66.5	170	69	---	---	---
North of Pacific Coast Hwy	4	30	AT	1.8%	0.7%	16,059	65.0	130	50	---	---	---
Pacific Coast Hwy to Catalina Ave	4	30	AT	1.8%	0.7%	24,720	67.0	185	75	---	---	---
Catalina Ave to Calle Miramar	4	30	AT	2.0%	2.0%	28,481	69.0	255	110	---	---	---
Calle Miramar to Calle Mayor	4	30	AT	1.8%	0.7%	26,453	67.0	185	75	---	---	---
Calle Mayor to South City Limit	1	30	AT	1.8%	0.7%	20,697	67.5	200	83	---	---	---
PRAIRIE AVENUE												
Redondo Beach Blvd to Artesia Blvd	4	35	AT	1.8%	0.7%	56,042	71.5	368	170	69	---	---
Artesia Blvd to 182nd St	4	35	AT	1.8%	0.7%	64,630	72.0	395	185	75	---	---
182nd St to 190th St	5	40	AT	1.8%	0.7%	43,700	71.5	368	170	69	---	---
190th St to Del Amo Blvd	5	40	AT	2.0%	2.0%	57,645	74.0	520	255	110	---	---
REDONDO BEACH BOULEVARD												
Hawthorne Blvd to I-405	4	35	AT	1.8%	0.7%	24,449	68.0	215	90	---	---	---
I-405 to Yukon Ave	4	35	AT	2.0%	2.0%	39,411	71.0	340	155	62	---	---
Yukon Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	35,459	69.5	278	120	---	---	---
Crenshaw Blvd to Van Ness Ave	4	35	AT	2.0%	2.0%	33,442	70.5	320	143	56	---	---
ROLLING HILLS ROAD												
Hawthorne Blvd to Crenshaw Blvd	4	35	AT	1.8%	0.7%	11,361	64.5	---	---	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
SEPULVEDA BOULEVARD												
West of Palos Verdes Blvd	5	40	BELOW	1.8%	0.7%	17,181	67.5	88	67	---	---	---
Palos Verdes Blvd to Anza Ave	5	40	AT	2.0%	2.0%	27,618	70.5	320	143	56	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	31,585	70.0	300	130	50	---	---
Hawthorne Blvd to Madrona Ave	5	40	AT	1.8%	0.7%	48,796	72.0	395	185	75	---	---
Madrona Ave to Maple Ave	5	40	AT	2.0%	2.0%	55,968	73.5	490	235	100	---	---
Maple Ave to Crenshaw Blvd	5	40	AT	1.8%	0.7%	47,711	72.0	395	185	75	---	---
Crenshaw Blvd to Arlington Ave	5	40	AT	1.8%	0.7%	54,645	72.5	428	200	83	---	---
Arlington Ave to Cabrillo Ave	5	40	AT	2.0%	2.0%	55,822	73.5	490	235	100	---	---
Cabrillo Ave to Western Ave	5	40	AT	1.8%	0.7%	54,111	72.5	428	200	83	---	---
SKYPARK DRIVE												
East of Madison St	5	40	AT	1.8%	0.7%	24,110	69.0	255	110	---	---	---
West of Crenshaw Blvd	5	40	AT	1.8%	0.7%	25,168	69.0	255	110	---	---	---
SPENCER STREET												
Victor St to Anza Ave	1	25	AT	1.8%	0.7%	5,681	60.0	50	---	---	---	---
Anza Ave to Hawthorne Blvd	1	25	AT	1.8%	0.7%	5,905	60.0	50	---	---	---	---
TORRANCE BOULEVARD												
West City Limit to Henrietta St	5	40	AT	1.8%	0.7%	31,050	70.0	300	130	50	---	---
Henrietta St to Victor St	5	40	AT	1.8%	0.7%	37,008	71.0	340	155	62	---	---
Victor St to Anza Ave	5	40	AT	2.0%	2.0%	36,970	72.0	395	185	75	---	---
Anza Ave to Hawthorne Blvd	5	40	AT	1.8%	0.7%	37,038	71.0	340	155	62	---	---
Hawthorne Blvd to Madrona Ave	5	40	AT	1.8%	0.7%	41,108	71.5	368	170	69	---	---
Madrona Ave to Maple Ave	4	35	AT	2.0%	2.0%	42,417	71.5	368	170	69	---	---
Maple Ave to Crenshaw Blvd	4	35	AT	1.8%	0.7%	39,085	70.0	300	130	50	---	---
Crenshaw Blvd to Arlington Ave	4	35	AT	1.8%	0.7%	42,681	70.5	320	143	56	---	---
Arlington Ave to Van Ness Ave	4	35	AT	2.0%	2.0%	37,972	71.0	340	155	62	---	---
Van Ness Ave to Western Ave	4	35	AT	1.8%	0.7%	34,638	69.5	278	120	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
VAN NESS AVENUE												
South of Redondo Beach Blvd	4	35	AT	1.8%	0.7%	14,806	65.5	143	56	---	---	---
North of Artesia Blvd	4	35	AT	1.8%	0.7%	16,068	66.0	155	62	---	---	---
Artesia Blvd to 182nd St	4	35	AT	1.8%	0.7%	18,167	66.5	170	69	---	---	---
182nd St to I-405	4	35	AT	1.8%	0.7%	16,284	66.0	155	62	---	---	---
I-405 to 190th St	4	35	AT	1.8%	0.7%	18,071	66.5	170	69	---	---	---
190th St to Del Amo Blvd	4	35	AT	2.0%	2.0%	21,258	68.5	235	100	---	---	---
Del Amo Blvd to Torrance Blvd	4	35	AT	1.8%	0.7%	17,833	66.5	170	69	---	---	---
VICTOR STREET												
Del Amo Blvd to Torrance Blvd	1	35	AT	1.8%	0.7%	5,083	62.5	83	---	---	---	---
WESTERN AVENUE												
Artesia Blvd to 182nd St	5	40	AT	1.8%	0.7%	36,647	71.0	340	155	62	---	---
182nd St to 190th St	5	40	AT	2.0%	2.0%	37,367	72.0	395	185	75	---	---
190th St to Del Amo Blvd	5	40	AT	4.0%	1.2%	49,164	73.0	460	215	90	---	---
Del Amo Blvd to Torrance Blvd	5	40	AT	4.0%	1.2%	38,534	72.0	395	185	75	---	---
Torrance Blvd to Carson St	5	40	AT	4.0%	1.2%	36,998	71.5	368	170	69	---	---
Carson St to Sepulveda Blvd	5	40	AT	4.0%	1.2%	39,776	72.0	395	185	75	---	---
Sepulveda Blvd to 235th St	5	40	AT	4.0%	1.2%	37,316	71.5	368	170	69	---	---
South of 235th St	5	40	AT	4.0%	1.2%	36,511	71.5	368	170	69	---	---
YUKON AVENUE												
Redondo Beach Blvd to Artesia Blvd	1	25	AT	1.8%	0.7%	5,691	60.0	50	---	---	---	---
Artesia Blvd to 182nd St	1	25	AT	1.8%	0.7%	4,594	59.0	---	---	---	---	---
182nd St to 190th St	1	25	AT	1.8%	0.7%	4,112	58.5	---	---	---	---	---

Table F-1, cont. Distance to Future CNEL Contour Lines, City of Torrance

Arterial / Reach	Arterial Type*	Speed Limit, mph	Elev.	% Trucks		Avg. Daily Traffic	CNEL @ 50' From Near Lane C/L	Distance to Future Contours From Near Lane Centerline, feet				
				Med.	Hvy			60dB	65dB	70dB	75dB	80dB
<i>I-405 FREEWAY (WITHOUT SOUND WALL)</i>												
Redondo Beach Blvd to Crenshaw Blvd	8	65	ABOVE	2.4%	2.2%	285,200	85.0	1,650	1,050	600	265	---
Crenshaw Blvd to Western Ave	8	65	ABOVE	2.4%	2.2%	293,250	85.0	1,650	1,050	600	265	---
<i>I-405 FREEWAY (WITH SOUND WALL)</i>												
Redondo Beach Blvd to Crenshaw Blvd	8	65	ABOVE	2.4%	2.2%	285,200	79.0	950	520	195	---	---
Crenshaw Blvd to Western Ave	8	65	ABOVE	2.4%	2.2%	293,250	79.0	950	520	195	---	---

* Arterial Types: 1) 2 lanes, 35 mph or less; 2) 2 lanes, 40 mph; 3) 2 lanes, 45 mph or more; 4) 4-6 lanes, 35 mph or less; 5) 4-6 lanes, 40 mph; 6) 4-6 lanes, 45 mph or more; 7) 4-6 lane freeway, 55 mph or more; 8) 8 lane freeway, 55 mph or more.

Notes:

AT', 'ABOVE', and 'BELOW' refer to the elevation of the arterial relative to the surrounding area.