

Road Segments	Noise Monitoring Location	Measured Noise Level Adjusted to L_{dn}	Distance From Measurement to Roadway Centerline (ft.)	Distances From Roadway Centerline		
				70 L_{dn} Contour (ft.)	65 L_{dn} Contour (ft.)	60 L_{dn} Contour (ft.)
<u>I-80</u> •West side - no soundwall •East side - 6-ft. soundwall (Pinole) •East side - no soundwall (Pinole) •East side - terrain and soundwall •East side - terrain	LA	74	200	370	796	1715
	LB	65	500	232	500	1077
	LC	71	500	583	1256	2706
	LD	60	300	65	139	300
	L3	65	500	232	500	1077
<u>Route 4</u> •West of Willow •East of Willow •At Franklin Canyon	L2	70	250	250	539	1160
	L5	72	125	170	366	789
	S1	62	210	62	133	285
San Pablo Avenue •Near Hercules Ave. •Near Sycamore •Near Linus Pauling	L1	66	110	60	128	276
	S8	65	300	139	300	646
	L4	65	90	42	90	194
Sycamore •At Redwood	L7	67	60	38	82	176
<u>Other Roadways</u> •Willow Ave. at Mariners Pointe •Refugio Valley Rd. •Pheasant Way near Tanager •Hercules near Zeus	L10	64	65	26	56	120
	L8	66	60	32	70	151
	L9	60	35	8	16	35
	L11	65	30	14	30	65
<u>Railroads</u> •AT&SF RR behind City Hall •Union Pacific along the waterfront	L6	75	100	183	336	616
	L12	68	100	78	144	264

HERCULES NOISE CONTOURING

TABLE 5

GOALS AND POLICIES

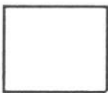
GOALS: The goals of the City of Hercules' Noise Element are to:

- Ensure that all new development is compatible with the existing and future noise environment;
- Prevent all new noise sources from increasing the existing noise level above acceptable standards; and
- Eliminate or reduce noise from existing or objectionable noise sources.

Policy 1: New residential development projects shall meet acceptable exterior noise level standards. The noise contour map on file at City Hall shall be used to screen projects to determine if acoustical studies will be required. The "normally acceptable" noise standards for new land uses established in Land Use Compatibility for Community Exterior Noise Environments shown in Table 6 shall be modified by the following:

- The maximum acceptable noise levels in residential areas is an L_{dn} of 60 dBA. This level shall guide the design and location of future development, and is a goal for the reduction of noise in existing development. A 60 dBA L_{dn} goal will be applied where outdoor use is a major consideration (e.g., backyards in single-family housing developments and recreation areas in multi-family housing projects). The outdoor standard will not normally be applied to small decks associated with apartments and condominiums, but these will be evaluated on a case-by-case basis. Where the City determines that providing an L_{dn} of 60 dBA or lower cannot be achieved after the application of feasible mitigations, an L_{dn} of 65 dBA may be permitted at the small decks at the discretion of the City Council.
- Indoor noise level shall not exceed an L_{dn} of 45 dBA in new housing units.

LAND USE CATEGORY	EXTERIOR NOISE EXPOSURE L _{dn} OR CNEL, dB					
	55	60	65	70	75	80
Residential, Hotels, and Motels		//////////	//////////	//////////	//////////	XXXXXXXXXX XXXXXXXXXX
Outdoor Sports and Recreation, Neighborhood Parks and Playgrounds			//////////	//////////		XXX XXX
Schools, Libraries, Museums, Hospitals, Personal Care, Meeting Halls, Churches			//////////	//////////		XXXXXXXXXX XXXXXXXXXX
Office Buildings, Business Commercial, and Professional				//////////	//////////	XXX XXX
Auditoriums, Concert Halls, Amphitheaters	//////////	//////////	//////////	//////////	//////////	XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX
Industrial, Manufacturing, Utilities, and Agriculture				//////////	//////////	//////////



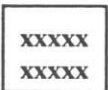
NORMALLY ACCEPTABLE

Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal convention construction, without any special insulation requirements.



CONDITIONALLY ACCEPTABLE

Specified land use may be permitted only after detailed analysis of the noise reduction requirements and needed noise insulation features are included in the design to mitigate noise to normally acceptable levels.



UNACCEPTABLE

New construction or development should generally not be undertaken because mitigation is usually not feasible to comply with noise element policies.