

**TRAFFIC NOISE LEVELS**

Project Number: OD2138700  
 Project Name: HB Ripcurl EIR

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): General Plan Option 2  
 Source of Traffic Volumes: Austin-Foust Associates  
 Community Noise Descriptor:  $L_{eq}$ : X CNEL: \_\_\_\_\_

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Traffic Noise Levels**

Analysis Condition Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hou dB(A) $L_{eq}$	24-Hour dB(A) Ldn
										Medium Trucks	Heavy Trucks		
Goldenwest Ave at Bolsa, NB	Commercial	6	15	0	44,970	45	75	0	0	1.8%	0.7%	0.0	72.5
Goldenwest Ave at Bolsa, SB	Commercial	6	15	0	43,350	45	75	0	0	1.8%	0.7%	0.0	72.3
Goldenwest Ave at McFadden, NB	Commercial	6	10	0	40,350	45	75	0	0	1.8%	0.7%	0.0	71.9
Goldenwest Ave at McFadden, SB	Residential	6	10	0	39,580	45	75	0	0	1.8%	0.7%	0.0	71.8
Gothard St at McFadden, SB	Institutional	4	10	0	16,430	40	75	0	0	1.8%	0.7%	0.0	66.4
Gothard St at Center, NB	Institutional/Commercial	4	10	0	15,220	40	75	0	0	1.8%	0.7%	0.0	66.1
Gothard St at Center, SB	Institutional/Commercial	4	10	0	16,850	40	75	0	0	1.8%	0.7%	0.0	66.5
Beach Blvd at Center, NB	Commercial	8	15	0	69,680	45	75	0	0	1.8%	0.7%	0.0	75.0
Beach Blvd at Center, SB	Commercial	8	15	0	67,180	45	75	0	0	1.8%	0.7%	0.0	74.8
Goldenwest Ave at Edinger, NB	Commercial	6	10	0	32,490	45	75	0	0	1.8%	0.7%	0.0	71.0
Goldenwest Ave at Edinger, SB	Commercial	6	10	0	29,580	45	75	0	0	1.8%	0.7%	0.0	70.6
Gothard St at Edinger Ave, NB	Commercial	4	10	0	16,350	40	75	0	0	1.8%	0.7%	0.0	66.4
Gothard St at Edinger Ave, SB	Commercial	4	10	0	18,920	40	75	0	0	1.8%	0.7%	0.0	67.0
Beach Blvd at Edinger, NB	Commercial	8	15	0	72,800	45	75	0	0	1.8%	0.7%	0.0	75.2
Beach Blvd at Edinger, SB	Commercial	8	15	0	68,450	45	75	0	0	1.8%	0.7%	0.0	74.9
Newland St at Edinger, NB	Residential	4	10	0	22,080	45	75	0	0	1.8%	0.7%	0.0	69.0
Newland St at Edinger, SB	Residential	4	10	0	21,500	45	75	0	0	1.8%	0.7%	0.0	68.8
Gothard St at Heil, NB	Commercial	4	10	0	18,440	40	75	0	0	1.8%	0.7%	0.0	66.9
Gothard St at Heil, SB	Commercial	4	10	0	23,560	40	75	0	0	1.8%	0.7%	0.0	68.0
Beach Blvd at Heil, NB	Commercial	8	15	0	62,640	45	75	0	0	1.8%	0.7%	0.0	74.5
Beach Blvd at Heil, SB	Commercial	8	15	0	59,050	45	75	0	0	1.8%	0.7%	0.0	74.3
Newland St at Heil, NB	Residential	4	10	0	17,100	35	75	0	0	1.8%	0.7%	0.0	65.1
Newland St at Heil, SB	Residential	4	10	0	16,790	35	75	0	0	1.8%	0.7%	0.0	65.1
Gothard St at Warner, NB	Commercial/Residential	4	10	0	23,460	40	75	0	0	1.8%	0.7%	0.0	67.9
Gothard St at Warner, SB	Commercial	4	10	0	21,270	40	75	0	0	1.8%	0.7%	0.0	67.5
Beach Blvd at Warner, NB	Commercial	8	15	0	60,960	45	75	0	0	1.8%	0.7%	0.0	74.4
Beach Blvd at Warner, SB	Commercial	8	15	0	57,870	45	75	0	0	1.8%	0.7%	0.0	74.2
Newland St at Warner Ave, NB	Commercial/Residential	4	15	0	22,300	40	75	0	0	1.8%	0.7%	0.0	67.8
Newland St at Warner Ave, SB	Commercial/Residential	4	10	0	21,500	35	75	0	0	1.8%	0.7%	0.0	66.1
Beach Blvd at McFadden, NB	Commercial	8	15	0	64,610	45	75	0	0	1.8%	0.7%	0.0	74.7
Beach Blvd at McFadden, SB	Commercial	8	15	0	65,300	45	75	0	0	1.8%	0.7%	0.0	74.7
Beach Blvd at Bolsa, NB	Commercial/Residential	8	15	0	67,440	45	75	0	0	1.8%	0.7%	0.0	74.8
Beach Blvd at Bolsa, SB	Commercial	8	15	0	65,720	45	75	0	0	1.8%	0.7%	0.0	74.7
Beach Blvd at Hazard Ave, NB	Commercial/Recreation	6	15	0	64,060	45	75	0	0	1.8%	0.7%	0.0	74.0
Beach Blvd at Hazard Ave, SB	Commercial/Recreation	6	15	0	62,350	45	75	0	0	1.8%	0.7%	0.0	73.9
Magnolia St at Edinger, NB	Residential	6	10	0	28,100	40	75	0	0	1.8%	0.7%	0.0	69.0
Magnolia St at Edinger, SB	Residential	6	10	0	28,400	40	75	0	0	1.8%	0.7%	0.0	69.1
Bolsa Ave at Goldenwest, WB	Commercial	6	15	0	37,090	40	75	0	0	1.8%	0.7%	0.0	70.3
Bolsa Ave at Goldenwest, EB	Commercial	8	15	0	42,490	40	75	0	0	1.8%	0.7%	0.0	71.5
McFadden Ave at Goldenwest, WB	Residential	4	10	0	15,770	45	75	0	0	1.8%	0.7%	0.0	67.5
McFadden Ave at Goldenwest, EB	Residential/Commercial	4	10	0	19,540	45	75	0	0	1.8%	0.7%	0.0	68.4
McFadden Ave at Gothard, WB	Residential/Institutional	4	10	0	19,740	45	75	0	0	1.8%	0.7%	0.0	68.5
McFadden Ave at Gothard, EB	Vacant/Commercial	4	10	0	21,490	40	75	0	0	1.8%	0.7%	0.0	67.6
Center Ave at Gothard, WB	Institutional	4	10	0	2,100	35	75	0	0	1.8%	0.7%	0.0	56.0
Center Ave at Gothard, EB	Commercial	4	10	0	8,490	35	75	0	0	1.8%	0.7%	0.0	62.1
Center Ave at Beach, WB	Commercial	4	10	0	23,100	35	75	0	0	1.8%	0.7%	0.0	66.4
Edinger Ave at Goldenwest, WB	Commercial/Residential	6	10	0	24,150	40	75	0	0	1.8%	0.7%	0.0	68.4
Edinger Ave at Goldenwest, EB	Institutional/Commercial	6	10	0	25,420	40	75	0	0	1.8%	0.7%	0.0	68.6
Edinger Ave at Gothard, WB	Commercial	6	10	0	30,720	40	75	0	0	1.8%	0.7%	0.0	69.4
Edinger Ave at Gothard, EB	Commercial	6	10	0	31,270	40	75	0	0	1.8%	0.7%	0.0	69.5
Edinger Ave at Beach, WB	Commercial	6	10	0	38,050	40	75	0	0	1.8%	0.7%	0.0	70.4
Edinger Ave at Beach, EB	Commercial	4	10	0	31,000	40	75	0	0	1.8%	0.7%	0.0	69.1
Edinger Ave at Newland, WB	Residential	4	10	0	20,750	40	75	0	0	1.8%	0.7%	0.0	67.4
Edinger Ave at Newland, EB	Residential	4	10	0	23,370	40	75	0	0	1.8%	0.7%	0.0	67.9
Heil Ave at Gothard, WB	Commercial/Residential	4	10	0	21,480	40	75	0	0	1.8%	0.7%	0.0	67.5
Heil Ave at Gothard, EB	Commercial	4	10	0	21,800	40	75	0	0	1.8%	0.7%	0.0	67.6
Heil Ave at Beach, WB	Residential	2	10	0	19,100	40	75	0	0	1.8%	0.7%	0.0	66.9
Heil Ave at Beach, EB	Commercial/Residential	2	10	0	12,890	40	75	0	0	1.8%	0.7%	0.0	65.2
Heil St at Newland St, WB	Residential	4	10	0	9,590	35	75	0	0	1.8%	0.7%	0.0	62.6
Heil St at Newland St, EB	Residential	4	10	0	2,700	35	75	0	0	1.8%	0.7%	0.0	57.1
Warner Ave at Gothard, WB	Commercial/Residential	6	10	0	39,390	45	75	0	0	1.8%	0.7%	0.0	71.8
Warner Ave at Gothard, EB	Commercial	6	10	0	34,200	45	75	0	0	1.8%	0.7%	0.0	71.2
Warner Ave at Beach, WB	Commercial	6	10	0	39,400	45	75	0	0	1.8%	0.7%	0.0	71.8
Warner Ave at Beach, EB	Commercial/Residential	6	10	0	35,090	45	75	0	0	1.8%	0.7%	0.0	71.3
Warner Ave at Newland St, WB	Commercial/Residential	4	15	0	34,400	40	75	0	0	1.8%	0.7%	0.0	69.6
Warner Ave at Newland St, EB	Commercial/Residential	4	15	0	39,200	40	75	0	0	1.8%	0.7%	0.0	70.2
McFadden Ave at Beach, WB	Commercial/Residential	4	10	0	22,280	40	75	0	0	1.8%	0.7%	0.0	67.7
McFadden Ave at Beach, EB	Commercial	4	10	0	23,770	40	75	0	0	1.8%	0.7%	0.0	68.0
Bolsa Ave at Beach, WB	Residential	4	10	0	29,700	40	75	0	0	1.8%	0.7%	0.0	69.0
Bolsa Ave at Beach, EB	Commercial/Residential	4	10	0	22,580	40	75	0	0	1.8%	0.7%	0.0	67.8
Hazard Ave at Beach Blvd, WB	Commercial/Recreation	6	15	0	11,800	45	75	0	0	1.8%	0.7%	0.0	66.7
Hazard Ave at Beach Blvd, EB	Commercial/Recreation	6	15	0	13,090	45	75	0	0	1.8%	0.7%	0.0	67.1
Edinger at Magnolia St, WB	Residential	6	10	0	22,180	40	75	0	0	1.8%	0.7%	0.0	68.0
Edinger at Magnolia St, EB	Residential	6	10	0	21,880	40	75	0	0	1.8%	0.7%	0.0	67.9

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

