

Appendix G. Noise Data

This page intentionally left blank.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number:
Project Name: Focused GPU and BCSP

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Kittelson & Associates, Inc., 2025
 Community Noise Descriptor: L_{dn}: _____ CNEL: X

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%

"-" = contour is located within the roadway right-of-way.
 Distance is from the centerline of the roadway segment to the receptor location.

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
						Medium Trucks	Heavy Trucks	CNEL at 50 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
Brea Boulevard												
North of Central Ave, existing	2	0	18,132	55	0.5	3.0%	2.0%	73.0	79	170	367	791
North of Central Ave, future GPU (2050)	2	0	23,161	55	0.5	3.0%	2.0%	74.1	93	201	432	931
North of Central Ave, future BCSP (2050)	2	0	19,641	55	0.5	3.0%	2.0%	73.3	83	180	387	834
Puente Street												
Central Ave to Lambert Rd, existing	4	12	8,382	40	0.5	6.3%	2.3%	67.9	-	78	168	362
Central Ave to Lambert Rd, future GPU (2050)	4	12	9,306	40	0.5	6.3%	2.3%	68.4	-	84	180	388
Central Ave to Lambert Rd, BCSP (2050)	4	12	8,659	40	0.5	6.3%	2.3%	68.0	-	80	172	370
Lambert Road												
Sunflower Street to Valencia Ave, existing	4	0	19,878	50	0.5	6.1%	1.3%	72.9	78	169	364	784
Sunflower Street to Valencia Ave, future GPU (2050)	4	0	34,062	50	0.5	6.1%	1.3%	75.3	112	242	521	1,123
Sunflower Street to Valencia Ave, future BCSP (2050)	4	0	24,133	50	0.5	6.1%	1.3%	73.8	89	192	414	893
State College Boulevard												
Lambert Road to Birch St, existing	4	12	19,677	40	0.5	6.3%	2.3%	71.6	64	138	297	640
Lambert Road to Birch St, future GPU (2050)	4	12	22,924	40	0.5	6.3%	2.3%	72.3	71	153	329	708
Lambert Road to Birch St, future BCSP (2050)	4	12	20,651	40	0.5	6.3%	2.3%	71.8	66	142	307	661
Birch Street												
Brea Boulevard to Poplar Ave, existing	4	12	16,670	35	0.5	6.1%	1.3%	69.1	-	94	202	435
Brea Boulevard to Poplar Ave, future GPU (2050)	2	12	18,809	35	0.5	6.1%	1.3%	69.0	43	92	198	426
Brea Boulevard to Poplar Ave, future BCSP (2050)	2	12	17,312	35	0.5	6.1%	1.3%	68.6	40	87	187	403
Associated Road												
Birch Street and Imperial Highway, existing	4	12	13,644	40	0.5	6.3%	2.3%	70.0	50	108	233	501
Birch Street and Imperial Highway, future GPU (2050)	4	12	15,542	40	0.5	6.3%	2.3%	70.6	55	118	254	547
Birch Street and Imperial Highway, future BCSP (2050)	4	12	14,213	40	0.5	6.3%	2.3%	70.2	52	111	239	515
Rose Drive												
Valencia Ave and Vesuvius Dr, existing	2	12	21,396	45	0.5	3.0%	2.0%	71.8	66	142	306	660
Valencia Ave and Vesuvius Dr, future GPU (2050)	2	12	32,501	45	0.5	3.0%	2.0%	73.6	87	188	405	872
Valencia Ave and Vesuvius Dr, future BCSP (2050)	2	12	24,728	45	0.5	3.0%	2.0%	72.4	73	157	337	727
Imperial Highway												
West of Puente St, existing	6	12	37,373	45	0.5	5.3%	3.2%	77.2	152	327	704	1,517
West of Puente St, future GPU (2050)	6	12	48,289	45	0.5	5.3%	3.2%	78.3	180	388	835	1,800
West of Puente St, future BCSP (2050)	6	12	40,648	45	0.5	5.3%	3.2%	77.6	160	346	745	1,605
Imperial Highway												
Berry St and Brea Blvd, existing	6	12	48,969	40	0.5	5.3%	3.2%	77.4	155	334	720	1,551
Berry St and Brea Blvd, future GPU(2050)	6	12	55,493	40	0.5	5.3%	3.2%	77.9	169	363	782	1,685
Berry St and Brea Blvd, future BCSP (2050)	6	12	50,926	40	0.5	5.3%	3.2%	77.5	159	343	739	1,592
Imperial Highway												
Associated Rd and Kingwood Ct, existing	6	12	45,653	40	0.5	4.4%	3.3%	77.0	146	315	679	1,463
Associated Rd and Kingwood Ct, future GPU (2050)	6	12	54,971	40	0.5	4.4%	3.3%	77.8	166	357	769	1,656
Associated Rd and Kingwood Ct, future BCSP (2050)	6	12	48,488	40	0.5	4.4%	3.3%	77.3	152	328	707	1,523
Imperial Highway												
Valencia Ave and East City Border, existing	6	12	36,843	50	0.5	4.4%	3.3%	78.1	172	371	800	1,724
Valencia Ave and East City Border, future GPU (2050)	6	12	45,844	50	0.5	4.4%	3.3%	79.0	199	430	926	1,995
Valencia Ave and East City Border, future BCSP (2050)	6	12	39,543	50	0.5	4.4%	3.3%	78.4	181	389	839	1,808
Carbon Canyon Road (SR-142)												
East of Olinda Village, existing	2	0	16,567	45	0.5	3.0%	2.0%	70.5	54	117	252	544
East of Olinda Village, future GPU (2050)	2	0	19,973	45	0.5	3.0%	2.0%	71.4	62	133	286	616
East of Olinda Village, future BCSP (2050)	2	0	17,589	45	0.5	3.0%	2.0%	70.8	57	122	263	566