

Appendix E Noise Data

TRAFFIC NOISE LEVELS

Project Number: 100000407
Project Name: Beach-Edinger Corridor Study

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Existing Conditions
 Source of Traffic Volumes: Austin-Foust
 Community Noise Descriptor: L_{dn}: 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	between	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L _{eq} dB(A)	24-Hour L _{dn} dB(A)
Beach Boulevard	Hazard Ave and Bolsa Ave			8	12	0	62,000	45	125	0	0	1.8%	0.7%	0.0	71.4
	Bolsa Ave and McFadden Ave			8	12	0	69,000	45	125	0	0	1.8%	0.7%	0.0	71.8
	McFadden Ave and I-405			8	12	0	80,000	45	125	0	0	1.8%	0.7%	0.0	72.5
	I-405 and Edinger Ave			8	12	0	69,000	45	125	0	0	1.8%	0.7%	0.0	71.8
	Edinger Ave and Heil Ave			8	12	0	63,000	45	125	0	0	1.8%	0.7%	0.0	71.4
	Heil Ave and Warner Ave			8	12	0	61,000	45	125	0	0	1.8%	0.7%	0.0	71.3
	Warner Ave and Slater Ave			8	12	0	58,000	45	125	0	0	1.8%	0.7%	0.0	71.1
	Slater Ave and Talbert Ave			8	12	0	59,000	45	125	0	0	1.8%	0.7%	0.0	71.1
	Talbert Ave and Ellis Ave			8	12	0	51,000	45	125	0	0	1.8%	0.7%	0.0	70.5
	Ellis Ave and Garfield Ave			6	12	0	42,000	45	100	0	0	1.8%	0.7%	0.0	70.6
	Garfield Ave and Yorktown Ave			6	12	0	43,000	45	100	0	0	1.8%	0.7%	0.0	70.7
	Yorktown Ave and Adams Ave			6	12	0	29,000	45	100	0	0	1.8%	0.7%	0.0	69.0
	Adams Ave and Indianapolis Ave			6	12	0	21,000	45	100	0	0	1.8%	0.7%	0.0	67.6
	Indianapolis Ave and Atlanta Ave			6	12	0	18,000	45	100	0	0	1.8%	0.7%	0.0	66.9
McFadden Ave	Gothard St and Beach Blvd			4	0	0	19,000	35	75	0	0	1.8%	0.7%	0.0	65.5
Edinger Ave	Goldenwest St and Gothard St			6	12	0	29,000	45	100	0	0	1.8%	0.7%	0.0	69.0
	Gothard St and Beach Blvd			6	12	0	30,000	45	100	0	0	1.8%	0.7%	0.0	69.1
Warner Ave	Gothard St and Beach Blvd			6	12	0	39,000	45	100	0	0	1.8%	0.7%	0.0	70.3
	Beach Blvd and Newland St			6	12	0	38,000	45	100	0	0	1.8%	0.7%	0.0	70.2
	Newland St and Magnolia St			6	12	0	39,000	45	100	0	0	1.8%	0.7%	0.0	70.3
Ellis Ave	Beach Blvd and Newland St			4	12	0	17,000	35	75	0	0	1.8%	0.7%	0.0	65.1
	Newland St and Magnolia St			4	12	0	15,000	35	75	0	0	1.8%	0.7%	0.0	64.6
Garfield Ave	Beach Blvd and Newland St			4	12	0	16,000	35	75	0	0	1.8%	0.7%	0.0	64.9
Adams Ave	Talbert Ave and Ellis Ave			6	12	0	26,000	45	100	0	0	1.8%	0.7%	0.0	68.5
Talbert Ave	Beach Blvd and Newland St			4	12	0	23,000	35	100	0	0	1.8%	0.7%	0.0	65.1

¹ Distance is from the centerline of the roadway segment to the receptor location.
 Note: Roadway segments were selected based on their proportionate share of project-related trips

TRAFFIC NOISE LEVELS

Project Number: 100000407
Project Name: Beach-Edinger Corridor Study

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): 2016 No Project
 Source of Traffic Volumes: Austin-Foust
 Community Noise Descriptor: L_{dn}: 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	between	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L _{eq} dB(A)	24-Hour L _{dn} dB(A)
Beach Boulevard	Hazard Ave and Bolsa Ave			8	12	0	70,400	45	125	0	0	1.8%	0.7%	0.0	71.9
	Bolsa Ave and McFadden Ave			8	12	0	74,600	45	125	0	0	1.8%	0.7%	0.0	72.2
	McFadden Ave and I-405			8	12	0	86,400	45	125	0	0	1.8%	0.7%	0.0	72.8
	I-405 and Edinger Ave			8	12	0	85,500	45	125	0	0	1.8%	0.7%	0.0	72.8
	Edinger Ave and Heil Ave			8	12	0	74,200	45	125	0	0	1.8%	0.7%	0.0	72.1
	Heil Ave and Warner Ave			8	12	0	64,900	45	125	0	0	1.8%	0.7%	0.0	71.6
	Warner Ave and Slater Ave			8	12	0	62,800	45	125	0	0	1.8%	0.7%	0.0	71.4
	Slater Ave and Talbert Ave			8	12	0	57,900	45	125	0	0	1.8%	0.7%	0.0	71.1
	Talbert Ave and Ellis Ave			8	12	0	57,700	45	125	0	0	1.8%	0.7%	0.0	71.0
	Ellis Ave and Garfield Ave			6	12	0	50,800	45	100	0	0	1.8%	0.7%	0.0	71.4
	Garfield Ave and Yorktown Ave			6	12	0	44,000	45	100	0	0	1.8%	0.7%	0.0	70.8
	Yorktown Ave and Adams Ave			6	12	0	44,400	45	100	0	0	1.8%	0.7%	0.0	70.8
	Adams Ave and Indianapolis Ave			6	12	0	31,500	45	100	0	0	1.8%	0.7%	0.0	69.3
	Indianapolis Ave and Atlanta Ave			6	12	0	24,600	45	100	0	0	1.8%	0.7%	0.0	68.3
	McFadden Ave	Gothard St and Beach Blvd			4	0	0	20,700	35	75	0	0	1.8%	0.7%	0.0
Edinger Ave	Goldenwest St and Gothard St			6	12	0	29,900	45	100	0	0	1.8%	0.7%	0.0	69.1
	Gothard St and Beach Blvd			6	12	0	47,400	45	100	0	0	1.8%	0.7%	0.0	71.1
Warner Ave	Gothard St and Beach Blvd			6	12	0	40,100	45	100	0	0	1.8%	0.7%	0.0	70.4
	Beach Blvd and Newland St			6	12	0	42,600	45	100	0	0	1.8%	0.7%	0.0	70.7
	Newland St and Magnolia St			6	12	0	46,000	45	100	0	0	1.8%	0.7%	0.0	71.0
Ellis Ave	Beach Blvd and Newland St			4	12	0	19,400	35	75	0	0	1.8%	0.7%	0.0	65.7
	Newland St and Magnolia St			4	12	0	18,400	35	75	0	0	1.8%	0.7%	0.0	65.5
Garfield Ave	Beach Blvd and Newland St			4	12	0	19,500	35	75	0	0	1.8%	0.7%	0.0	65.7
Adams Ave	Beach Blvd and Newland St			6	12	0	35,400	45	100	0	0	1.8%	0.7%	0.0	69.9
Talbert Ave	Beach Blvd and Newland St			4	12	0	26,200	35	100	0	0	1.8%	0.7%	0.0	65.6

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 Note: Roadway segments were selected based on their proportionate share of project-related trips

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Background Information

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 Analysis Scenario(s): 2016 With Project
 Source of Traffic Volumes: Austin-Foust
 Community Noise Descriptor: L_{dn}: 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	between	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L _{eq} dB(A)	24-Hour L _{dn} dB(A)
Beach Boulevard	Hazard Ave and Bolsa Ave			8	12	0	70,700	45	125	0	0	1.8%	0.7%	0.0	71.9
	Bolsa Ave and McFadden Ave			8	12	0	74,900	45	125	0	0	1.8%	0.7%	0.0	72.2
	McFadden Ave and I-405			8	12	0	86,700	45	125	0	0	1.8%	0.7%	0.0	72.8
	I-405 and Edinger Ave			8	12	0	86,000	45	125	0	0	1.8%	0.7%	0.0	72.8
	Edinger Ave and Heil Ave			8	12	0	75,000	45	125	0	0	1.8%	0.7%	0.0	72.2
	Heil Ave and Warner Ave			8	12	0	65,400	45	125	0	0	1.8%	0.7%	0.0	71.6
	Warner Ave and Slater Ave			8	12	0	63,400	45	125	0	0	1.8%	0.7%	0.0	71.5
	Slater Ave and Talbert Ave			8	12	0	59,200	45	125	0	0	1.8%	0.7%	0.0	71.2
	Talbert Ave and Ellis Ave			8	12	0	59,000	45	125	0	0	1.8%	0.7%	0.0	71.1
	Ellis Ave and Garfield Ave			6	12	0	51,000	45	100	0	0	1.8%	0.7%	0.0	71.4
	Garfield Ave and Yorktown Ave			6	12	0	44,400	45	100	0	0	1.8%	0.7%	0.0	70.8
	Yorktown Ave and Adams Ave			6	12	0	44,200	45	100	0	0	1.8%	0.7%	0.0	70.8
	Adams Ave and Indianapolis Ave			6	12	0	31,400	45	100	0	0	1.8%	0.7%	0.0	69.3
	Indianapolis Ave and Atlanta Ave			6	12	0	24,600	45	100	0	0	1.8%	0.7%	0.0	68.3
McFadden Ave	Gothard St and Beach Blvd			4	0	0	21,400	35	75	0	0	1.8%	0.7%	0.0	66.0
Edinger Ave	Goldenwest St and Gothard St			6	12	0	30,200	45	100	0	0	1.8%	0.7%	0.0	69.2
	Gothard St and Beach Blvd			6	12	0	48,000	45	100	0	0	1.8%	0.7%	0.0	71.2
Warner Ave	Gothard St and Beach Blvd			6	12	0	40,200	45	100	0	0	1.8%	0.7%	0.0	70.4
	Beach Blvd and Newland St			6	12	0	42,800	45	100	0	0	1.8%	0.7%	0.0	70.7
	Newland St and Magnolia St			6	12	0	46,200	45	100	0	0	1.8%	0.7%	0.0	71.0
Ellis Ave	Beach Blvd and Newland St			4	12	0	20,600	35	75	0	0	1.8%	0.7%	0.0	66.0
	Newland St and Magnolia St			4	12	0	18,800	35	75	0	0	1.8%	0.7%	0.0	65.6
Garfield Ave	Beach Blvd and Newland St			4	12	0	19,600	35	75	0	0	1.8%	0.7%	0.0	65.7
Adams Ave	Beach Blvd and Newland St			6	12	0	35,600	45	100	0	0	1.8%	0.7%	0.0	69.9
Talbert Ave	Beach Blvd and Newland St			4	12	0	26,600	35	100	0	0	1.8%	0.7%	0.0	65.7

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 Analysis Scenario(s): Future (2030) Conditions without project
 Source of Traffic Volumes: Austin-Foust
 Community Noise Descriptor: L_{dn}: 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	between	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L _{eq} dB(A)	24-Hour L _{dn} dB(A)
Beach Boulevard	Hazard Ave and Bolsa Ave			8	12	0	73,000	45	125	0	0	1.8%	0.7%	0.0	72.1
	Bolsa Ave and McFadden Ave			8	12	0	79,000	45	125	0	0	1.8%	0.7%	0.0	72.4
	McFadden Ave and I-405			8	12	0	91,000	45	125	0	0	1.8%	0.7%	0.0	73.0
	I-405 and Edinger Ave			8	12	0	88,000	45	125	0	0	1.8%	0.7%	0.0	72.9
	Edinger Ave and Heil Ave			8	12	0	79,000	45	125	0	0	1.8%	0.7%	0.0	72.4
	Heil Ave and Warner Ave			8	12	0	68,000	45	125	0	0	1.8%	0.7%	0.0	71.8
	Warner Ave and Slater Ave			8	12	0	66,000	45	125	0	0	1.8%	0.7%	0.0	71.6
	Slater Ave and Talbert Ave			8	12	0	62,000	45	125	0	0	1.8%	0.7%	0.0	71.4
	Talbert Ave and Ellis Ave			8	12	0	64,000	45	125	0	0	1.8%	0.7%	0.0	71.5
	Ellis Ave and Garfield Ave			6	12	0	53,000	45	100	0	0	1.8%	0.7%	0.0	71.6
	Garfield Ave and Yorktown Ave			6	12	0	46,000	45	100	0	0	1.8%	0.7%	0.0	71.0
	Yorktown Ave and Adams Ave			6	12	0	44,000	45	100	0	0	1.8%	0.7%	0.0	70.8
	Adams Ave and Indianapolis Ave			6	12	0	32,000	45	100	0	0	1.8%	0.7%	0.0	69.4
	Indianapolis Ave and Atlanta Ave			6	12	0	25,000	45	100	0	0	1.8%	0.7%	0.0	68.3
McFadden Ave	Gothard St and Beach Blvd			4	0	0	21,000	35	75	0	0	1.8%	0.7%	0.0	65.9
Edinger Ave	Goldenwest St and Gothard St			6	12	0	33,000	45	100	0	0	1.8%	0.7%	0.0	69.5
	Gothard St and Beach Blvd			6	12	0	49,000	45	100	0	0	1.8%	0.7%	0.0	71.3
Warner Ave	Gothard St and Beach Blvd			6	12	0	41,000	45	100	0	0	1.8%	0.7%	0.0	70.5
	Beach Blvd and Newland St			6	12	0	44,000	45	100	0	0	1.8%	0.7%	0.0	70.8
	Newland St and Magnolia St			6	12	0	46,000	45	100	0	0	1.8%	0.7%	0.0	71.0
Ellis Ave	Beach Blvd and Newland St			4	12	0	22,000	35	75	0	0	1.8%	0.7%	0.0	66.2
	Newland St and Magnolia St			4	12	0	20,000	35	75	0	0	1.8%	0.7%	0.0	65.8
Garfield Ave	Beach Blvd and Newland St			4	12	0	21,000	35	75	0	0	1.8%	0.7%	0.0	66.0
Adams Ave	Talbert Ave and Ellis Ave			6	12	0	36,000	45	100	0	0	1.8%	0.7%	0.0	69.9
Talbert Ave	Beach Blvd and Newland St			4	12	0	27,000	35	100	0	0	1.8%	0.7%	0.0	65.8

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Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition				Peak	Design	Dist. from	Barrier	Vehicle Mix	Peak Hour	24-Hour				
Roadway Segment	between	Land Use	Lanes	Median Width	Speed (mph)	Center to Receptor ¹	Alpha Factor	Medium Trucks	Heavy Trucks	L _{eq} dB(A)	dB(A) Ldn			
Beach Boulevard	Hazard Ave and Bolsa Ave		8	12	0	72,000	45	125	0	0	1.8%	0.7%	0.0	72.0
	Bolsa Ave and McFadden Ave		8	12	0	77,000	45	125	0	0	1.8%	0.7%	0.0	72.3
	McFadden Ave and I-405		8	12	0	90,000	45	125	0	0	1.8%	0.7%	0.0	73.0
	I-405 and Edinger Ave		8	12	0	85,000	45	125	0	0	1.8%	0.7%	0.0	72.7
	Edinger Ave and Heil Ave		8	12	0	75,000	45	125	0	0	1.8%	0.7%	0.0	72.2
	Heil Ave and Warner Ave		8	12	0	66,000	45	125	0	0	1.8%	0.7%	0.0	71.6
	Warner Ave and Slater Ave		8	12	0	64,000	45	125	0	0	1.8%	0.7%	0.0	71.5
	Slater Ave and Talbert Ave		8	12	0	61,000	45	125	0	0	1.8%	0.7%	0.0	71.3
	Talbert Ave and Ellis Ave		8	12	0	62,000	45	125	0	0	1.8%	0.7%	0.0	71.4
	Ellis Ave and Garfield Ave		6	12	0	51,000	45	100	0	0	1.8%	0.7%	0.0	71.4
	Garfield Ave and Yorktown Ave		6	12	0	45,000	45	100	0	0	1.8%	0.7%	0.0	70.9
	Yorktown Ave and Adams Ave		6	12	0	44,000	45	100	0	0	1.8%	0.7%	0.0	70.8
	Adams Ave and Indianapolis Ave		6	12	0	31,000	45	100	0	0	1.8%	0.7%	0.0	69.3
	Indianapolis Ave and Atlanta Ave		6	12	0	24,000	45	100	0	0	1.8%	0.7%	0.0	68.2
McFadden Ave	Gothard St and Beach Blvd		4	0	0	20,000	35	75	0	0	1.8%	0.7%	0.0	65.7
Edinger Ave	Goldenwest St and Gothard St		6	12	0	31,000	45	100	0	0	1.8%	0.7%	0.0	69.3
	Gothard St and Beach Blvd		6	12	0	46,000	45	100	0	0	1.8%	0.7%	0.0	71.0
Warner Ave	Gothard St and Beach Blvd		6	12	0	40,000	45	100	0	0	1.8%	0.7%	0.0	70.4
	Beach Blvd and Newland St		6	12	0	43,000	45	100	0	0	1.8%	0.7%	0.0	70.7
	Newland St and Magnolia St		6	12	0	45,000	45	100	0	0	1.8%	0.7%	0.0	70.9
Ellis Ave	Beach Blvd and Newland St		4	12	0	22,000	35	75	0	0	1.8%	0.7%	0.0	66.2
	Newland St and Magnolia St		4	12	0	19,000	35	75	0	0	1.8%	0.7%	0.0	65.6
Garfield Ave	Beach Blvd and Newland St		4	12	0	19,000	35	75	0	0	1.8%	0.7%	0.0	65.6
Adams Ave	Talbert Ave and Ellis Ave		6	12	0	34,000	45	100	0	0	1.8%	0.7%	0.0	69.7
Talbert Ave	Beach Blvd and Newland St		4	12	0	27,000	35	100	0	0	1.8%	0.7%	0.0	65.8

¹ Distance is from the centerline of the roadway segment to the receptor location.

Note: Roadway segments were selected based on their proportionate share of project-related trips

