

APPENDIX E
NOISE MODELING RESULTS

TRAFFIC NOISE LEVELS

Project Number: 0D5141300
Project Name: Austin Road

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Existing and Future
 Source of Traffic Volumes: Project Traffic Report
 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	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 Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L_{eq} dB(A)	24-Hour L_{dn} dB(A)
Existing Conditions													
Austin Road between Sedan Avenue and Ripon Road	Residential	2	0	217	2,170	55	50	0	0	1.8%	0.7%	63.9	62.7
Austin Road between Moffat and Sedan Avenue	Residential	2	0	266	2,660	55	50	0	0	1.8%	0.7%	64.8	63.6
Austin Road between SR-99 NB off-ramps and Graves Road	Residential	2	0	312	3,120	35	75	0	0	1.8%	0.7%	58.7	57.5
Woodward Avenue between Atherton Road and Pillsbury Road	Residential	3	0	263	2,630	35	50	0	0	1.8%	0.7%	59.8	58.7
Ripon Road between Austin Road and Jack Tone Road	Residential	2	0	596	5,960	45	50	0	0	1.8%	0.7%	66.0	64.9
Jack Tone Road between SR-99 SB off-ramps and Ripon Road	Residential	2	0	774	7,740	35	50	0	0	1.8%	0.7%	64.4	63.3
Woodward Avenue between Van Ryn Road and Main Street	Residential	2	0	545	5,450	35	50	0	0	1.8%	0.7%	62.9	61.7
Van Ryn Road between Industrial Park Drive and Woodward Ave	Residential	2	0	275	2,750	35	50	0	0	1.8%	0.7%	59.9	58.8
Existing + Project Conditions													
Austin Road between Sedan Avenue and Ripon Road	Residential	2	0	1580	15,800	35	50	0	0	1.8%	0.7%	67.5	66.4
Austin Road between Moffat and Sedan Avenue	Residential	2	0	3070	30,700	35	50	0	0	1.8%	0.7%	70.4	69.2
Austin Road between SR-99 NB off-ramps and Graves Road	Residential	2	0	820	8,200	35	75	0	0	1.8%	0.7%	62.9	61.7
Woodward Avenue between Atherton Road and Pillsbury Road	Residential	3	0	1360	13,600	35	50	0	0	1.8%	0.7%	67.0	65.8
Ripon Road between Austin Road and Jack Tone Road	Residential	2	0	1700	17,000	45	50	0	0	1.8%	0.7%	70.6	69.4
Jack Tone Road between SR-99 SB off-ramps and Ripon Road	Residential	2	0	1050	10,500	35	50	0	0	1.8%	0.7%	65.7	64.6
Woodward Avenue between Van Ryn Road and Main Street	Residential	2	0	1550	15,500	35	50	0	0	1.8%	0.7%	67.4	66.3
Van Ryn Road between Industrial Park Drive and Woodward Ave	Residential	2	0	530	5,300	35	50	0	0	1.8%	0.7%	62.8	61.6
Future No Project Conditions													
Austin Road between Sedan Avenue and Ripon Road	Residential	2	0	410	4,100	55	50	0	0	1.8%	0.7%	66.7	65.5
Austin Road between Moffat and Sedan Avenue	Residential	2	0	460	4,600	55	50	0	0	1.8%	0.7%	67.2	66.0
Austin Road between SR-99 NB off-ramps and Graves Road	Residential	2	0	580	5,800	35	75	0	0	1.8%	0.7%	61.4	60.2
Woodward Avenue between Atherton Road and Pillsbury Road	Residential	3	0	1,120	11,200	35	50	0	0	1.8%	0.7%	66.1	65.0
Ripon Road between Austin Road and Jack Tone Road	Residential	2	0	1,020	10,200	45	50	0	0	1.8%	0.7%	68.4	67.2
Jack Tone Road between SR-99 SB off-ramps and Ripon Road	Residential	2	0	1,110	11,100	35	50	0	0	1.8%	0.7%	66.0	64.8
Woodward Avenue between Van Ryn Road and Main Street	Residential	2	0	2,010	20,100	35	50	0	0	1.8%	0.7%	68.6	67.4
Van Ryn Road between Industrial Park Drive and Woodward Ave	Residential	2	0	880	8,800	35	50	0	0	1.8%	0.7%	65.0	63.8
Future With Project Conditions													
Austin Road between Sedan Avenue and Ripon Road	Residential	2	0	1,250	12,500	35	50	0	0	1.8%	0.7%	66.5	65.3
Austin Road between Moffat and Sedan Avenue	Residential	2	0	2,730	27,300	35	50	0	0	1.8%	0.7%	69.9	68.7
Austin Road between SR-99 NB off-ramps and Graves Road	Residential	2	0	720	7,200	35	75	0	0	1.8%	0.7%	62.3	61.2
Woodward Avenue between Atherton Road and Pillsbury Road	Residential	3	0	2,060	20,600	35	50	0	0	1.8%	0.7%	68.8	67.6
Ripon Road between Austin Road and Jack Tone Road	Residential	2	0	1,780	17,800	45	50	0	0	1.8%	0.7%	70.8	69.6
Jack Tone Road between SR-99 SB off-ramps and Ripon Road	Residential	2	0	1,390	13,900	35	50	0	0	1.8%	0.7%	67.0	65.8
Woodward Avenue between Van Ryn Road and Main Street	Residential	2	0	2,830	28,300	35	50	0	0	1.8%	0.7%	70.1	68.9
Van Ryn Road between Industrial Park Drive and Woodward Ave	Residential	2	0	970	9,700	35	50	0	0	1.8%	0.7%	65.4	64.2

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