

Appendix D

Traffic Noise Prediction Model Results

Traffic Noise Prediction Modeling Results

Existing

Traffic Noise Calculator: FHWA 77-108			Project: 22-13884 (Existing)																			
ID	Output			Inputs						Auto Inputs												
	dBA at 50 feet			Distance to CNEL Contour			Roadway	Segment	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance
1	52.2	54.7	55.3	5	11	24	Santero Way	s/o E Cotati Avenue	1,160	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
2	59.5	62.1	62.6	16	35	74	Lancaster Drive	s/o E. Cotati Avenue	6,260	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
3	68.2	70.7	71.3	61	131	282	E. Cotati Ave	w/o Adrian Drive	23,250	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
4	68.4	71.0	71.5	63	135	292	Old Redwood Hwy	n/o Cotati Ave	24,490	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
5	65.5	68.1	68.6	40	87	187	Old Redwood Hwy	s/o Cotati Ave	12,950	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
6	65.1	67.7	68.2	38	82	176	W Sierra Ave	w/o Old Redwood Hwy	11,860	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20

Forecast Buildout – No Project

Traffic Noise Calculator: FHWA 77-108			Project: 22-13884 (Forecast Buildout - No Project)																			
ID	Output			Inputs						Auto Inputs												
	dBA at 50 feet			Distance to CNEL Contour			Roadway	Segment	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance
1	64.3	66.9	67.4	34	72	156	Santero Way	s/o E Cotati Avenue	19,040	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
2	59.6	62.2	62.7	16	35	76	Lancaster Drive	s/o E. Cotati Avenue	6,460	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
3	69.7	72.3	72.8	77	166	357	E. Cotati Ave	w/o Adrian Drive	33,140	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
4	69.6	72.2	72.7	76	164	353	Old Redwood Hwy	n/o Cotati Ave	32,640	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
5	65.6	68.2	68.7	41	88	190	Old Redwood Hwy	s/o Cotati Ave	13,290	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
6	65.2	67.8	68.3	39	83	179	W Sierra Ave	w/o Old Redwood Hwy	12,140	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20

Forecast Buildout + Project

Traffic Noise Calculator: FHWA 77-108			Project: 22-13884 (Forecast Buildout + Project)																			
ID	Output			Inputs						Auto Inputs												
	dBA at 50 feet			Distance to CNEL Contour			Roadway	Segment	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance
1	63.5	66.1	66.6	30	64	138	Santero Way	s/o E Cotati Avenue	15,800	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
2	59.6	62.2	62.7	16	35	76	Lancaster Drive	s/o E. Cotati Avenue	6,440	25	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
3	69.5	72.1	72.6	75	161	348	E. Cotati Ave	w/o Adrian Drive	31,920	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
4	69.6	72.1	72.7	75	163	350	Old Redwood Hwy	n/o Cotati Ave	32,230	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	4	Soft	50	0.5	44
5	65.6	68.2	68.7	41	89	191	Old Redwood Hwy	s/o Cotati Ave	13,390	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20
6	65.0	67.6	68.1	38	81	174	W Sierra Ave	w/o Old Redwood Hwy	11,640	35	0.0%	83.00%	17.0%	0.00%	81.0%	11.0%	9.0%	2	Soft	50	0.5	20