

# **Appendix F**

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Traffic noise data

City of Solvang  
**Solvang Comprehensive General Plan Update and Rezoning**

Traffic Noise Calculator: FHWA 77-108			Project: 20-10211 - 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
L <sub>eq,24hr</sub>	L <sub>dn</sub>	CNEL	70 dBA	65 dBA	60 dBA																	
1	65.8	67.8	68.8	42	89	193	SR 246	5th Street to Nykobing	15,621	35	0.0%	92.80%	4.6%	2.64%	75.0%	18.5%	6.5%	2	Soft	50	0.5	20
2	64.8	66.7	67.8	36	77	166	SR 246	4th Street to 5th Street	12,467	35	0.0%	92.80%	4.6%	2.64%	73.3%	20.6%	6.1%	2	Soft	50	0.5	20
3	64.9	66.9	68.0	37	79	170	SR 246	Alisal Road to 1st Street	12,667	35	0.0%	92.80%	4.6%	2.64%	72.1%	21.5%	6.3%	2	Soft	50	0.5	20
4	64.8	66.8	67.9	36	78	168	SR 246	Old Mill Road to Alisal Road	12,393	35	0.0%	92.80%	4.6%	2.64%	71.7%	21.9%	6.4%	2	Soft	50	0.5	20
5	65.4	67.4	68.5	40	86	185	SR 246	Alamo Pintado Road to Old Mill Road	14,292	35	0.0%	92.80%	4.6%	2.64%	72.1%	21.4%	6.4%	2	Soft	50	0.5	20
6	53.4	55.3	56.2	6	13	28	Alisal Road	Viborg Road to Eucalyptus Drive	1,231	35	0.0%	98.00%	0.0%	2.00%	77.5%	16.7%	5.8%	2	Soft	50	0.5	20
7	54.3	56.0	56.9	7	14	31	Alisal Road	Laurel Avenue to Maple Avenue	1,483	35	0.0%	98.00%	0.0%	2.00%	78.5%	15.9%	5.6%	2	Soft	50	0.5	20
8	54.3	56.1	57.0	7	15	32	Alisal Road	Maple Avenue to SR 246	1,515	35	0.0%	98.00%	0.0%	2.00%	78.4%	15.9%	5.7%	2	Soft	50	0.5	20
9	50.6	52.4	53.4	4	8	18	Alisal Road	SR 246 to Copenhagen Drive	1,240	25	0.0%	98.00%	0.0%	2.00%	75.7%	18.6%	5.7%	2	Soft	50	0.5	20
10	47.5	49.3	50.2	2	5	11	Alisal Road	Molle Way to Oak Street	606	25	0.0%	98.00%	0.0%	2.00%	77.2%	17.2%	5.6%	2	Soft	50	0.5	20
11	47.7	49.6	50.5	2	5	12	Alisal Road	Oak Street to Elverhoy Way	634	25	0.0%	98.00%	0.0%	2.00%	78.1%	15.7%	6.2%	2	Soft	50	0.5	20
12	34.0	35.4	36.3	0	1	1	Alisal Road	Fjord Drive to Rancho Alisal Drive	27	25	0.0%	98.00%	0.0%	2.00%	81.1%	14.4%	4.5%	2	Soft	50	0.5	20
13	55.6	57.5	58.3	8	18	38	Squire Lane	Viborg Road to Chalk Hill Road	2,033	35	0.0%	98.00%	0.0%	2.00%	79.8%	14.4%	5.9%	2	Soft	50	0.5	20
14	52.7	54.6	55.4	5	12	25	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,004	25	0.0%	98.00%	0.0%	2.00%	78.5%	15.4%	6.1%	2	Soft	50	0.5	20
15	44.9	46.5	47.4	2	3	7	Atterdag Road	Laurel Avenue to Elm Avenue	336	25	0.0%	98.00%	0.0%	2.00%	79.6%	15.6%	4.9%	2	Soft	50	0.5	20
16	48.0	49.7	50.6	3	5	12	Atterdag Road	Elm Avenue to SR 246	681	25	0.0%	98.00%	0.0%	2.00%	79.1%	15.5%	5.4%	2	Soft	50	0.5	20
17	55.9	57.2	58.4	8	18	39	Atterdag Road	SR 246 to Copenhagen Drive	2,162	35	0.0%	98.00%	0.0%	2.00%	76.7%	19.2%	4.1%	2	Soft	50	0.5	20
18	51.6	52.0	53.5	4	9	19	Atterdag Road	Copenhagen Drive to Copenhagen Drive	807	35	0.0%	98.00%	0.0%	2.00%	77.3%	21.7%	1.0%	2	Soft	50	0.5	20
19	51.8	52.2	53.7	4	9	19	Atterdag Road	Copenhagen Drive Molle Way	838	35	0.0%	98.00%	0.0%	2.00%	77.8%	21.1%	1.1%	2	Soft	50	0.5	20
20	57.4	59.4	60.3	11	24	52	5th Street	Elm Avenue to SR 246	3,090	35	0.0%	98.00%	0.0%	2.00%	77.2%	16.4%	6.4%	2	Soft	50	0.5	20
21	57.5	59.9	60.5	12	25	54	5th Street	SR 246 to Copenhagen Drive	3,120	35	0.0%	98.00%	0.0%	2.00%	78.8%	12.9%	8.3%	2	Soft	50	0.5	20
22	57.5	59.9	60.6	12	25	55	5th Street	Copenhagen Drive to Oak Street	3,152	35	0.0%	98.00%	0.0%	2.00%	78.9%	12.9%	8.2%	2	Soft	50	0.5	20
23	54.2	56.1	57.0	7	15	32	Copenhagen Drive	Atterdag Road to 1st Street	1,465	35	0.0%	98.00%	0.0%	2.00%	76.0%	18.1%	5.9%	2	Soft	50	0.5	20
24	50.9	52.6	53.5	4	9	19	Viborg Road	Alisal Road to Squire Lane	687	35	0.0%	98.00%	0.0%	2.00%	78.7%	16.0%	5.3%	2	Soft	50	0.5	20
25	51.1	51.5	53.0	4	8	17	Molle Way	2nd Street to 1st Street	724	35	0.0%	98.00%	0.0%	2.00%	77.2%	21.9%	0.9%	1	Soft	50	0.5	6
26	38.1	40.2	41.3	1	1	3	Molle Way	1st Street to Alisal Road	36	35	0.0%	98.00%	0.0%	2.00%	72.1%	21.3%	6.6%	1	Soft	50	0.5	6
27	57.0	59.2	59.8	10	23	49	Oak Street	2nd Street to 1st Street	2,784	35	0.0%	98.00%	0.0%	2.00%	80.0%	12.8%	7.2%	2	Soft	50	0.5	20
28	50.1	51.8	52.7	4	8	16	Oak Street	1st Street to Alisal Road	572	35	0.0%	98.00%	0.0%	2.00%	78.7%	16.0%	5.3%	2	Soft	50	0.5	20
29	56.8	59.0	59.7	10	22	48	Oak Street	2nd Street to 5th Street	2,669	35	0.0%	98.00%	0.0%	2.00%	80.0%	12.6%	7.4%	2	Soft	50	0.5	20
30	37.1	38.8	39.7	0	1	2	Elverhoy Way	1st Street to Alisal Road	29	35	0.0%	98.00%	0.0%	2.00%	79.3%	15.5%	5.1%	2	Soft	50	0.5	20

Traffic Noise Calculator: FHWA 77-108

Project: 20-10211 - 2045 Future

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
	L <sub>eq-24hr</sub>	L <sub>dn</sub>	CNEL	70 dBA	65 dBA	60 dBA																
1	66.7	68.7	69.6	47	101	217	SR 246	5th Street to Nykobing	19,003	35	0.0%	92.80%	4.6%	2.64%	76.8%	16.5%	6.7%	2	Soft	50	0.5	20
2	65.7	67.6	68.6	40	87	187	SR 246	4th Street to 5th Street	15,310	35	0.0%	92.80%	4.6%	2.64%	76.1%	17.7%	6.2%	2	Soft	50	0.5	20
3	65.8	67.7	68.7	41	88	190	SR 246	Alisal Road to 1st Street	15,581	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.2%	6.3%	2	Soft	50	0.5	20
4	65.7	67.7	68.6	41	88	189	SR 246	Old Mill Road to Alisal Road	15,381	35	0.0%	92.80%	4.6%	2.64%	75.4%	18.4%	6.2%	2	Soft	50	0.5	20
5	66.4	68.4	69.3	45	97	210	SR 246	Alamo Pintado Road to Old Mill Road	18,008	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.2%	6.3%	2	Soft	50	0.5	20
6	54.6	56.3	57.2	7	15	32	Alisal Road	Viborg Road to Eucalyptus Drive	1,590	35	0.0%	98.00%	0.0%	2.00%	78.9%	15.6%	5.5%	2	Soft	50	0.5	20
7	55.6	57.5	58.5	9	18	39	Alisal Road	Laurel Avenue to Maple Avenue	2,038	35	0.0%	98.00%	0.0%	2.00%	76.7%	17.3%	6.0%	2	Soft	50	0.5	20
8	55.6	57.5	58.5	9	18	40	Alisal Road	Maple Avenue to SR 246	2,024	35	0.0%	98.00%	0.0%	2.00%	76.2%	17.6%	6.2%	2	Soft	50	0.5	20
9	52.3	54.0	55.1	5	11	23	Alisal Road	SR 246 to Copenhagen Drive	1,825	25	0.0%	98.00%	0.0%	2.00%	75.8%	18.8%	5.4%	2	Soft	50	0.5	20
10	50.4	52.1	53.1	4	8	17	Alisal Road	Molle Way to Oak Street	1,192	25	0.0%	98.00%	0.0%	2.00%	76.8%	18.1%	5.1%	2	Soft	50	0.5	20
11	52.5	54.3	55.2	5	11	24	Alisal Road	Oak Street to Elverhoy Way	1,915	25	0.0%	98.00%	0.0%	2.00%	77.3%	17.0%	5.7%	2	Soft	50	0.5	20
12	51.2	52.9	53.9	4	9	20	Alisal Road	Fjord Drive to Rancho Alisal Drive	1,424	25	0.0%	98.00%	0.0%	2.00%	77.3%	17.6%	5.1%	2	Soft	50	0.5	20
13	57.3	58.9	59.7	10	22	47	Squire Lane	Viborg Road to Chalk Hill Road	3,012	35	0.0%	98.00%	0.0%	2.00%	82.5%	12.6%	4.8%	2	Soft	50	0.5	20
14	53.9	55.7	56.5	6	13	29	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,667	25	0.0%	98.00%	0.0%	2.00%	80.7%	13.8%	5.5%	2	Soft	50	0.5	20
15	45.6	47.1	48.1	2	4	8	Atterdag Road	Laurel Avenue to Elm Avenue	392	25	0.0%	98.00%	0.0%	2.00%	79.4%	15.9%	4.7%	2	Soft	50	0.5	20
16	49.0	50.7	51.6	3	6	14	Atterdag Road	Elm Avenue to SR 246	857	25	0.0%	98.00%	0.0%	2.00%	79.2%	15.4%	5.3%	2	Soft	50	0.5	20
17	55.6	57.1	58.3	8	18	39	Atterdag Road	SR 246 to Copenhagen Drive	2,034	35	0.0%	98.00%	0.0%	2.00%	74.4%	21.1%	4.6%	2	Soft	50	0.5	20
18	50.2	50.8	53.0	4	8	17	Atterdag Road	Copenhagen Drive to Copenhagen Drive	585	35	0.0%	98.00%	0.0%	2.00%	64.5%	33.9%	1.6%	2	Soft	50	0.5	20
19	50.5	51.1	53.2	4	8	18	Atterdag Road	Copenhagen Drive Molle Way	626	35	0.0%	98.00%	0.0%	2.00%	65.9%	32.4%	1.8%	2	Soft	50	0.5	20
20	58.9	60.8	61.6	14	30	64	5th Street	Elm Avenue to SR 246	4,333	35	0.0%	98.00%	0.0%	2.00%	78.3%	15.7%	6.0%	2	Soft	50	0.5	20
21	58.1	60.8	61.6	14	29	64	5th Street	SR 246 to Copenhagen Drive	3,616	35	0.0%	98.00%	0.0%	2.00%	74.4%	16.1%	9.5%	2	Soft	50	0.5	20
22	58.2	60.8	61.6	14	30	64	5th Street	Copenhagen Drive to Oak Street	3,662	35	0.0%	98.00%	0.0%	2.00%	74.5%	16.1%	9.4%	2	Soft	50	0.5	20
23	54.5	56.4	57.3	7	15	33	Copenhagen Drive	Atterdag Road to 1st Street	1,586	35	0.0%	98.00%	0.0%	2.00%	77.7%	16.5%	5.8%	2	Soft	50	0.5	20
24	53.8	55.0	55.7	6	12	26	Viborg Road	Alisal Road to Squire Lane	1,351	35	0.0%	98.00%	0.0%	2.00%	85.4%	11.3%	3.3%	2	Soft	50	0.5	20
25	49.1	49.7	52.1	3	7	15	Molle Way	2nd Street to 1st Street	461	35	0.0%	98.00%	0.0%	2.00%	60.0%	38.3%	1.7%	1	Soft	50	0.5	6
26	38.6	40.5	41.7	1	1	3	Molle Way	1st Street to Alisal Road	40	35	0.0%	98.00%	0.0%	2.00%	72.0%	21.7%	6.4%	1	Soft	50	0.5	6
27	58.7	60.6	61.3	13	28	61	Oak Street	2nd Street to 1st Street	4,092	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.5%	6.4%	2	Soft	50	0.5	20
28	53.8	55.5	56.5	6	13	29	Oak Street	1st Street to Alisal Road	1,323	35	0.0%	98.00%	0.0%	2.00%	77.9%	16.4%	5.7%	2	Soft	50	0.5	20
29	58.5	60.5	61.2	13	28	60	Oak Street	2nd Street to 5th Street	3,927	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.4%	6.5%	2	Soft	50	0.5	20
30	38.8	40.4	41.3	1	1	3	Elverhoy Way	1st Street to Alisal Road	42	35	0.0%	98.00%	0.0%	2.00%	79.8%	15.4%	4.9%	2	Soft	50	0.5	20

City of Solvang  
**Solvang Comprehensive General Plan Update and Rezoning**

Traffic Noise Calculator: FHWA 77-108			Project: 20-10211 (Alternative #1 - 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	66.6	68.7	69.6	47	101	217	SR 246	5th Street to Nykobing	18,873	35	0.0%	92.80%	4.6%	2.64%	76.5%	16.8%	6.7%	2	Soft	50	0.5	20
2	65.7	67.6	68.5	40	86	185	SR 246	4th Street to 5th Street	15,230	35	0.0%	92.80%	4.6%	2.64%	76.5%	17.5%	6.0%	2	Soft	50	0.5	20
3	65.6	67.5	68.5	40	86	185	SR 246	Alisal Road to 1st Street	14,986	35	0.0%	92.80%	4.6%	2.64%	75.7%	18.1%	6.2%	2	Soft	50	0.5	20
4	65.6	67.5	68.5	40	86	185	SR 246	Old Mill Road to Alisal Road	14,963	35	0.0%	92.80%	4.6%	2.64%	75.6%	18.3%	6.1%	2	Soft	50	0.5	20
5	66.2	68.1	69.1	44	94	202	SR 246	Alamo Pintado Road to Old Mill Road	17,063	35	0.0%	92.80%	4.6%	2.64%	75.4%	18.3%	6.3%	2	Soft	50	0.5	20
6	54.2	56.0	56.9	7	14	31	Alisal Road	Viborg Road to Eucalyptus Drive	1,479	35	0.0%	98.00%	0.0%	2.00%	78.4%	16.1%	5.6%	2	Soft	50	0.5	20
7	54.9	56.8	57.7	8	16	35	Alisal Road	Laurel Avenue to Maple Avenue	1,731	35	0.0%	98.00%	0.0%	2.00%	77.0%	17.0%	6.0%	2	Soft	50	0.5	20
8	55.0	56.9	57.8	8	17	36	Alisal Road	Maple Avenue to SR 246	1,743	35	0.0%	98.00%	0.0%	2.00%	76.6%	17.3%	6.2%	2	Soft	50	0.5	20
9	52.0	53.8	54.9	5	11	23	Alisal Road	SR 246 to Copenhagen Drive	1,720	25	0.0%	98.00%	0.0%	2.00%	75.3%	19.1%	5.6%	2	Soft	50	0.5	20
10	50.0	51.7	52.7	4	8	16	Alisal Road	Molle Way to Oak Street	1,071	25	0.0%	98.00%	0.0%	2.00%	76.1%	18.6%	5.3%	2	Soft	50	0.5	20
11	52.3	54.1	55.1	5	11	23	Alisal Road	Oak Street to Elverhoy Way	1,820	25	0.0%	98.00%	0.0%	2.00%	76.9%	17.3%	5.8%	2	Soft	50	0.5	20
12	51.2	52.9	53.9	4	9	20	Alisal Road	Fjord Drive to Rancho Alisal Drive	1,405	25	0.0%	98.00%	0.0%	2.00%	76.8%	17.8%	5.4%	2	Soft	50	0.5	20
13	57.2	58.8	59.6	10	22	47	Squire Lane	Viborg Road to Chalk Hill Road	2,905	35	0.0%	98.00%	0.0%	2.00%	81.9%	13.0%	5.0%	2	Soft	50	0.5	20
14	53.6	55.4	56.3	6	13	28	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,450	25	0.0%	98.00%	0.0%	2.00%	78.8%	15.2%	6.0%	2	Soft	50	0.5	20
15	45.4	47.0	47.9	2	4	8	Atterdag Road	Laurel Avenue to Elm Avenue	373	25	0.0%	98.00%	0.0%	2.00%	79.2%	15.9%	4.9%	2	Soft	50	0.5	20
16	48.7	50.4	51.3	3	6	13	Atterdag Road	Elm Avenue to SR 246	793	25	0.0%	98.00%	0.0%	2.00%	78.8%	15.7%	5.5%	2	Soft	50	0.5	20
17	55.9	57.4	58.6	9	19	40	Atterdag Road	SR 246 to Copenhagen Drive	2,187	35	0.0%	98.00%	0.0%	2.00%	74.9%	20.6%	4.5%	2	Soft	50	0.5	20
18	50.5	51.0	53.1	4	8	17	Atterdag Road	Copenhagen Drive to Copenhagen Drive	621	35	0.0%	98.00%	0.0%	2.00%	65.7%	32.9%	1.4%	2	Soft	50	0.5	20
19	50.7	51.3	53.3	4	8	18	Atterdag Road	Copenhagen Drive Molle Way	658	35	0.0%	98.00%	0.0%	2.00%	66.8%	31.7%	1.5%	2	Soft	50	0.5	20
20	58.5	60.5	61.4	13	29	62	5th Street	Elm Avenue to SR 246	3,963	35	0.0%	98.00%	0.0%	2.00%	77.0%	16.6%	6.4%	2	Soft	50	0.5	20
21	57.4	60.3	61.0	13	27	59	5th Street	SR 246 to Copenhagen Drive	3,075	35	0.0%	98.00%	0.0%	2.00%	72.9%	16.8%	10.3%	2	Soft	50	0.5	20
22	57.5	60.3	61.0	13	27	59	5th Street	Copenhagen Drive to Oak Street	3,104	35	0.0%	98.00%	0.0%	2.00%	72.9%	16.8%	10.2%	2	Soft	50	0.5	20
23	54.7	56.6	57.5	7	16	34	Copenhagen Drive	Atterdag Road to 1st Street	1,662	35	0.0%	98.00%	0.0%	2.00%	77.9%	16.3%	5.8%	2	Soft	50	0.5	20
24	53.3	54.6	55.4	5	11	25	Viborg Road	Alisal Road to Squire Lane	1,204	35	0.0%	98.00%	0.0%	2.00%	84.3%	12.1%	3.7%	2	Soft	50	0.5	20
25	49.6	50.1	52.4	3	7	16	Molle Way	2nd Street to 1st Street	510	35	0.0%	98.00%	0.0%	2.00%	62.4%	36.2%	1.4%	1	Soft	50	0.5	6
26	37.9	40.0	41.1	1	1	3	Molle Way	1st Street to Alisal Road	35	35	0.0%	98.00%	0.0%	2.00%	71.2%	22.0%	6.9%	1	Soft	50	0.5	6
27	58.4	60.5	61.1	13	28	60	Oak Street	2nd Street to 1st Street	3,890	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.3%	6.6%	2	Soft	50	0.5	20
28	53.4	55.3	56.2	6	13	28	Oak Street	1st Street to Alisal Road	1,220	35	0.0%	98.00%	0.0%	2.00%	77.7%	16.4%	5.9%	2	Soft	50	0.5	20
29	58.3	60.3	61.0	13	27	58	Oak Street	2nd Street to 5th Street	3,743	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.1%	6.8%	2	Soft	50	0.5	20
30	38.1	39.7	40.6	1	1	3	Elverhoy Way	1st Street to Alisal Road	36	35	0.0%	98.00%	0.0%	2.00%	79.6%	15.4%	5.0%	2	Soft	50	0.5	20

Traffic Noise Calculator: FHWA 77-108

Project: 20-10211 (Alternative #1 - Without Old Lumberyard 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
	L <sub>eq</sub> 24hr	L <sub>dn</sub>	CNEL	70 dBA	65 dBA	60 dBA																
1	66.7	68.7	69.6	47	101	217	SR 246	5th Street to Nykobing	19,004	35	0.0%	92.80%	4.6%	2.64%	76.8%	16.6%	6.6%	2	Soft	50	0.5	20
2	65.7	67.6	68.6	40	87	187	SR 246	4th Street to 5th Street	15,356	35	0.0%	92.80%	4.6%	2.64%	76.1%	17.7%	6.1%	2	Soft	50	0.5	20
3	65.8	67.7	68.7	41	88	190	SR 246	Alisal Road to 1st Street	15,507	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.3%	6.2%	2	Soft	50	0.5	20
4	65.7	67.6	68.6	41	87	188	SR 246	Old Mill Road to Alisal Road	15,343	35	0.0%	92.80%	4.6%	2.64%	75.4%	18.4%	6.1%	2	Soft	50	0.5	20
5	66.4	68.4	69.3	45	97	210	SR 246	Alamo Pintado Road to Old Mill Road	18,029	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.3%	6.3%	2	Soft	50	0.5	20
6	54.7	56.4	57.3	7	15	33	Alisal Road	Viborg Road to Eucalyptus Drive	1,630	35	0.0%	98.00%	0.0%	2.00%	78.9%	15.5%	5.5%	2	Soft	50	0.5	20
7	55.7	57.6	58.5	9	18	40	Alisal Road	Laurel Avenue to Maple Avenue	2,054	35	0.0%	98.00%	0.0%	2.00%	76.8%	17.2%	6.0%	2	Soft	50	0.5	20
8	55.6	57.6	58.5	9	18	40	Alisal Road	Maple Avenue to SR 246	2,037	35	0.0%	98.00%	0.0%	2.00%	76.3%	17.5%	6.2%	2	Soft	50	0.5	20
9	52.4	54.1	55.2	5	11	24	Alisal Road	SR 246 to Copenhagen Drive	1,872	25	0.0%	98.00%	0.0%	2.00%	76.0%	18.6%	5.4%	2	Soft	50	0.5	20
10	50.6	52.2	53.2	4	8	18	Alisal Road	Molle Way to Oak Street	1,230	25	0.0%	98.00%	0.0%	2.00%	77.0%	17.9%	5.1%	2	Soft	50	0.5	20
11	52.7	54.4	55.4	5	11	25	Alisal Road	Oak Street to Elverhoy Way	1,988	25	0.0%	98.00%	0.0%	2.00%	77.5%	16.9%	5.6%	2	Soft	50	0.5	20
12	51.4	53.0	54.0	4	9	20	Alisal Road	Fjord Drive to Rancho Alisal Drive	1,475	25	0.0%	98.00%	0.0%	2.00%	77.4%	17.5%	5.2%	2	Soft	50	0.5	20
13	57.3	58.9	59.7	10	22	47	Squire Lane	Viborg Road to Chalk Hill Road	3,012	35	0.0%	98.00%	0.0%	2.00%	82.5%	12.7%	4.8%	2	Soft	50	0.5	20
14	53.9	55.7	56.5	6	14	29	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,672	25	0.0%	98.00%	0.0%	2.00%	80.7%	13.8%	5.5%	2	Soft	50	0.5	20
15	45.6	47.1	48.1	2	4	8	Atterdag Road	Laurel Avenue to Elm Avenue	392	25	0.0%	98.00%	0.0%	2.00%	79.5%	15.8%	4.7%	2	Soft	50	0.5	20
16	49.0	50.8	51.6	3	6	14	Atterdag Road	Elm Avenue to SR 246	860	25	0.0%	98.00%	0.0%	2.00%	79.3%	15.3%	5.4%	2	Soft	50	0.5	20
17	55.7	57.2	58.4	8	18	39	Atterdag Road	SR 246 to Copenhagen Drive	2,061	35	0.0%	98.00%	0.0%	2.00%	74.8%	20.7%	4.5%	2	Soft	50	0.5	20
18	50.4	50.9	53.0	4	8	17	Atterdag Road	Copenhagen Drive to Copenhagen Drive	606	35	0.0%	98.00%	0.0%	2.00%	65.9%	32.5%	1.5%	2	Soft	50	0.5	20
19	50.6	51.3	53.3	4	8	18	Atterdag Road	Copenhagen Drive Molle Way	647	35	0.0%	98.00%	0.0%	2.00%	67.1%	31.2%	1.7%	2	Soft	50	0.5	20
20	58.9	60.8	61.7	14	30	64	5th Street	Elm Avenue to SR 246	4,331	35	0.0%	98.00%	0.0%	2.00%	78.3%	15.7%	6.0%	2	Soft	50	0.5	20
21	58.1	60.8	61.5	14	29	63	5th Street	SR 246 to Copenhagen Drive	3,557	35	0.0%	98.00%	0.0%	2.00%	74.1%	16.3%	9.6%	2	Soft	50	0.5	20
22	58.1	60.8	61.5	14	29	63	5th Street	Copenhagen Drive to Oak Street	3,602	35	0.0%	98.00%	0.0%	2.00%	74.2%	16.3%	9.5%	2	Soft	50	0.5	20
23	54.5	56.4	57.3	7	15	33	Copenhagen Drive	Atterdag Road to 1st Street	1,580	35	0.0%	98.00%	0.0%	2.00%	77.8%	16.4%	5.8%	2	Soft	50	0.5	20
24	53.8	55.0	55.7	6	12	26	Viborg Road	Alisal Road to Squire Lane	1,349	35	0.0%	98.00%	0.0%	2.00%	85.4%	11.3%	3.3%	2	Soft	50	0.5	20
25	49.4	49.9	52.2	3	7	15	Molle Way	2nd Street to 1st Street	485	35	0.0%	98.00%	0.0%	2.00%	62.1%	36.4%	1.5%	1	Soft	50	0.5	6
26	38.5	40.5	41.6	1	1	3	Molle Way	1st Street to Alisal Road	40	35	0.0%	98.00%	0.0%	2.00%	72.1%	21.5%	6.4%	1	Soft	50	0.5	6
27	58.6	60.6	61.3	13	28	61	Oak Street	2nd Street to 1st Street	4,033	35	0.0%	98.00%	0.0%	2.00%	81.0%	12.6%	6.4%	2	Soft	50	0.5	20
28	53.8	55.6	56.5	6	14	29	Oak Street	1st Street to Alisal Road	1,329	35	0.0%	98.00%	0.0%	2.00%	78.0%	16.4%	5.7%	2	Soft	50	0.5	20
29	58.4	60.4	61.1	13	28	59	Oak Street	2nd Street to 5th Street	3,871	35	0.0%	98.00%	0.0%	2.00%	81.0%	12.4%	6.6%	2	Soft	50	0.5	20
30	38.9	40.4	41.3	1	1	3	Elverhoy Way	1st Street to Alisal Road	43	35	0.0%	98.00%	0.0%	2.00%	79.8%	15.4%	4.8%	2	Soft	50	0.5	20

City of Solvang  
**Solvang Comprehensive General Plan Update and Rezoning**

Traffic Noise Calculator: FHWA 77-108			Project: 20-10211 (Alternative #3 - Without Alamo Pintado Project)																			
ID	Output			Distance to CNEL Contour			Inputs												Auto Inputs			
	dBA at 50 feet			70 dBA	65 dBA	60 dBA	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	66.7	68.7	69.6	47	101	218	SR 246	5th Street to Nykobing	19,027	35	0.0%	92.80%	4.6%	2.64%	76.8%	16.5%	6.7%	2	Soft	50	0.5	20
2	65.7	67.6	68.6	40	87	187	SR 246	4th Street to 5th Street	15,297	35	0.0%	92.80%	4.6%	2.64%	76.1%	17.7%	6.2%	2	Soft	50	0.5	20
3	65.8	67.7	68.7	41	88	190	SR 246	Alisal Road to 1st Street	15,461	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.2%	6.3%	2	Soft	50	0.5	20
4	65.7	67.7	68.6	41	87	188	SR 246	Old Mill Road to Alisal Road	15,350	35	0.0%	92.80%	4.6%	2.64%	75.3%	18.5%	6.2%	2	Soft	50	0.5	20
5	66.4	68.4	69.3	45	97	210	SR 246	Alamo Pintado Road to Old Mill Road	17,999	35	0.0%	92.80%	4.6%	2.64%	75.4%	18.3%	6.3%	2	Soft	50	0.5	20
6	54.9	56.6	57.5	7	16	34	Alisal Road	Viborg Road to Eucalyptus Drive	1,718	35	0.0%	98.00%	0.0%	2.00%	79.1%	15.5%	5.5%	2	Soft	50	0.5	20
7	55.6	57.5	58.4	8	18	39	Alisal Road	Laurel Avenue to Maple Avenue	2,016	35	0.0%	98.00%	0.0%	2.00%	76.7%	17.3%	6.0%	2	Soft	50	0.5	20
8	55.6	57.5	58.4	8	18	39	Alisal Road	Maple Avenue to SR 246	2,008	35	0.0%	98.00%	0.0%	2.00%	76.2%	17.6%	6.2%	2	Soft	50	0.5	20
9	52.5	54.2	55.3	5	11	24	Alisal Road	SR 246 to Copenhagen Drive	1,896	25	0.0%	98.00%	0.0%	2.00%	75.2%	19.4%	5.4%	2	Soft	50	0.5	20
10	50.4	52.1	53.1	4	8	17	Alisal Road	Molle Way to Oak Street	1,190	25	0.0%	98.00%	0.0%	2.00%	76.6%	18.3%	5.0%	2	Soft	50	0.5	20
11	52.5	54.2	55.2	5	11	24	Alisal Road	Oak Street to Elverhoy Way	1,899	25	0.0%	98.00%	0.0%	2.00%	77.3%	17.1%	5.6%	2	Soft	50	0.5	20
12	51.4	53.0	54.0	4	9	20	Alisal Road	Fjord Drive to Rancho Alisal Drive	1,476	25	0.0%	98.00%	0.0%	2.00%	77.3%	17.6%	5.1%	2	Soft	50	0.5	20
13	57.4	58.9	59.7	10	22	48	Squire Lane	Viborg Road to Chalk Hill Road	3,036	35	0.0%	98.00%	0.0%	2.00%	82.7%	12.5%	4.8%	2	Soft	50	0.5	20
14	54.0	55.7	56.5	6	14	29	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,705	25	0.0%	98.00%	0.0%	2.00%	80.8%	13.7%	5.5%	2	Soft	50	0.5	20
15	45.6	47.2	48.1	2	4	8	Atterdag Road	Laurel Avenue to Elm Avenue	393	25	0.0%	98.00%	0.0%	2.00%	79.4%	15.9%	4.7%	2	Soft	50	0.5	20
16	49.1	50.8	51.7	3	7	14	Atterdag Road	Elm Avenue to SR 246	881	25	0.0%	98.00%	0.0%	2.00%	79.3%	15.3%	5.4%	2	Soft	50	0.5	20
17	55.8	57.3	58.5	9	18	40	Atterdag Road	SR 246 to Copenhagen Drive	2,107	35	0.0%	98.00%	0.0%	2.00%	74.5%	20.9%	4.6%	2	Soft	50	0.5	20
18	50.4	51.0	53.2	4	8	18	Atterdag Road	Copenhagen Drive to Copenhagen Drive	615	35	0.0%	98.00%	0.0%	2.00%	64.4%	34.0%	1.6%	2	Soft	50	0.5	20
19	50.7	51.3	53.4	4	8	18	Atterdag Road	Copenhagen Drive Molle Way	655	35	0.0%	98.00%	0.0%	2.00%	65.7%	32.5%	1.7%	2	Soft	50	0.5	20
20	58.9	60.8	61.6	14	30	64	5th Street	Elm Avenue to SR 246	4,291	35	0.0%	98.00%	0.0%	2.00%	78.4%	15.6%	6.0%	2	Soft	50	0.5	20
21	58.0	60.6	61.4	13	29	62	5th Street	SR 246 to Copenhagen Drive	3,485	35	0.0%	98.00%	0.0%	2.00%	74.5%	16.0%	9.5%	2	Soft	50	0.5	20
22	58.0	60.7	61.4	13	29	62	5th Street	Copenhagen Drive to Oak Street	3,527	35	0.0%	98.00%	0.0%	2.00%	74.6%	16.0%	9.4%	2	Soft	50	0.5	20
23	54.6	56.5	57.4	7	15	33	Copenhagen Drive	Atterdag Road to 1st Street	1,618	35	0.0%	98.00%	0.0%	2.00%	77.8%	16.3%	5.8%	2	Soft	50	0.5	20
24	53.7	54.8	55.6	5	12	25	Viborg Road	Alisal Road to Squire Lane	1,317	35	0.0%	98.00%	0.0%	2.00%	85.8%	11.0%	3.2%	2	Soft	50	0.5	20
25	49.4	50.0	52.4	3	7	16	Molle Way	2nd Street to 1st Street	492	35	0.0%	98.00%	0.0%	2.00%	59.9%	38.5%	1.6%	1	Soft	50	0.5	6
26	39.1	41.0	42.1	1	1	3	Molle Way	1st Street to Alisal Road	45	35	0.0%	98.00%	0.0%	2.00%	72.5%	21.2%	6.3%	1	Soft	50	0.5	6
27	58.6	60.6	61.3	13	28	61	Oak Street	2nd Street to 1st Street	4,035	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.5%	6.4%	2	Soft	50	0.5	20
28	53.7	55.5	56.4	6	13	29	Oak Street	1st Street to Alisal Road	1,307	35	0.0%	98.00%	0.0%	2.00%	77.9%	16.4%	5.6%	2	Soft	50	0.5	20
29	58.4	60.4	61.1	13	28	59	Oak Street	2nd Street to 5th Street	3,872	35	0.0%	98.00%	0.0%	2.00%	81.1%	12.4%	6.5%	2	Soft	50	0.5	20
30	38.7	40.3	41.2	1	1	3	Elverhoy Way	1st Street to Alisal Road	42	35	0.0%	98.00%	0.0%	2.00%	79.9%	15.4%	4.8%	2	Soft	50	0.5	20

Traffic Noise Calculator: FHWA 77-108

Project: 20-10211 (Alternative #4 - Without either 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
	L <sub>eq,24hr</sub>	L <sub>dn</sub>	CNEL	70 dBA	65 dBA	60 dBA																
1	66.7	68.7	69.6	47	101	217	SR 246	5th Street to Nykobing	19,020	35	0.0%	92.80%	4.6%	2.64%	76.8%	16.5%	6.7%	2	Soft	50	0.5	20
2	65.7	67.6	68.6	40	87	186	SR 246	4th Street to 5th Street	15,282	35	0.0%	92.80%	4.6%	2.64%	76.2%	17.7%	6.1%	2	Soft	50	0.5	20
3	65.8	67.7	68.7	41	88	190	SR 246	Alisal Road to 1st Street	15,486	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.2%	6.2%	2	Soft	50	0.5	20
4	65.7	67.7	68.6	41	87	188	SR 246	Old Mill Road to Alisal Road	15,370	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.4%	6.2%	2	Soft	50	0.5	20
5	66.4	68.4	69.3	45	97	209	SR 246	Alamo Pintado Road to Old Mill Road	17,965	35	0.0%	92.80%	4.6%	2.64%	75.5%	18.2%	6.2%	2	Soft	50	0.5	20
6	54.7	56.5	57.4	7	15	33	Alisal Road	Viborg Road to Eucalyptus Drive	1,662	35	0.0%	98.00%	0.0%	2.00%	78.8%	15.8%	5.4%	2	Soft	50	0.5	20
7	55.6	57.5	58.4	8	18	39	Alisal Road	Laurel Avenue to Maple Avenue	2,020	35	0.0%	98.00%	0.0%	2.00%	77.0%	17.1%	5.9%	2	Soft	50	0.5	20
8	55.5	57.4	58.4	8	18	39	Alisal Road	Maple Avenue to SR 246	1,995	35	0.0%	98.00%	0.0%	2.00%	76.6%	17.3%	6.1%	2	Soft	50	0.5	20
9	52.4	54.1	55.2	5	11	24	Alisal Road	SR 246 to Copenhagen Drive	1,878	25	0.0%	98.00%	0.0%	2.00%	75.9%	18.6%	5.4%	2	Soft	50	0.5	20
10	50.5	52.2	53.2	4	8	18	Alisal Road	Molle Way to Oak Street	1,216	25	0.0%	98.00%	0.0%	2.00%	76.9%	18.0%	5.1%	2	Soft	50	0.5	20
11	52.6	54.4	55.3	5	11	24	Alisal Road	Oak Street to Elverhoy Way	1,961	25	0.0%	98.00%	0.0%	2.00%	77.4%	16.9%	5.7%	2	Soft	50	0.5	20
12	51.4	53.0	54.0	4	9	20	Alisal Road	Fjord Drive to Rancho Alisal Drive	1,472	25	0.0%	98.00%	0.0%	2.00%	77.3%	17.5%	5.2%	2	Soft	50	0.5	20
13	57.4	59.0	59.7	10	22	48	Squire Lane	Viborg Road to Chalk Hill Road	3,050	35	0.0%	98.00%	0.0%	2.00%	82.4%	12.7%	4.9%	2	Soft	50	0.5	20
14	54.0	55.7	56.5	6	14	29	Atterdag Road	Chalk Hill Road to Laurel Avenue	2,708	25	0.0%	98.00%	0.0%	2.00%	80.7%	13.8%	5.5%	2	Soft	50	0.5	20
15	45.6	47.2	48.1	2	4	8	Atterdag Road	Laurel Avenue to Elm Avenue	395	25	0.0%	98.00%	0.0%	2.00%	79.5%	15.8%	4.7%	2	Soft	50	0.5	20
16	48.9	50.6	51.5	3	6	13	Atterdag Road	Elm Avenue to SR 246	830	25	0.0%	98.00%	0.0%	2.00%	79.3%	15.3%	5.4%	2	Soft	50	0.5	20
17	55.8	57.2	58.4	8	18	39	Atterdag Road	SR 246 to Copenhagen Drive	2,103	35	0.0%	98.00%	0.0%	2.00%	75.0%	20.5%	4.5%	2	Soft	50	0.5	20
18	50.5	51.1	53.1	4	8	17	Atterdag Road	Copenhagen Drive to Copenhagen Drive	626	35	0.0%	98.00%	0.0%	2.00%	66.7%	31.7%	1.5%	2	Soft	50	0.5	20
19	50.8	51.4	53.3	4	8	18	Atterdag Road	Copenhagen Drive Molle Way	666	35	0.0%	98.00%	0.0%	2.00%	67.9%	30.5%	1.7%	2	Soft	50	0.5	20
20	58.9	60.8	61.6	14	30	64	5th Street	Elm Avenue to SR 246	4,325	35	0.0%	98.00%	0.0%	2.00%	78.3%	15.7%	6.0%	2	Soft	50	0.5	20
21	58.0	60.7	61.5	14	29	63	5th Street	SR 246 to Copenhagen Drive	3,517	35	0.0%	98.00%	0.0%	2.00%	74.1%	16.2%	9.7%	2	Soft	50	0.5	20
22	58.1	60.8	61.5	14	29	63	5th Street	Copenhagen Drive to Oak Street	3,560	35	0.0%	98.00%	0.0%	2.00%	74.2%	16.3%	9.6%	2	Soft	50	0.5	20
23	54.6	56.4	57.3	7	15	33	Copenhagen Drive	Atterdag Road to 1st Street	1,613	35	0.0%	98.00%	0.0%	2.00%	77.9%	16.3%	5.8%	2	Soft	50	0.5	20
24	53.8	54.9	55.7	6	12	26	Viborg Road	Alisal Road to Squire Lane	1,328	35	0.0%	98.00%	0.0%	2.00%	85.3%	11.3%	3.4%	2	Soft	50	0.5	20
25	49.5	50.1	52.3	3	7	15	Molle Way	2nd Street to 1st Street	502	35	0.0%	98.00%	0.0%	2.00%	63.3%	35.2%	1.5%	1	Soft	50	0.5	6
26	39.0	40.9	42.1	1	1	3	Molle Way	1st Street to Alisal Road	45	35	0.0%	98.00%	0.0%	2.00%	72.7%	21.1%	6.2%	1	Soft	50	0.5	6
27	58.6	60.6	61.3	13	28	61	Oak Street	2nd Street to 1st Street	4,040	35	0.0%	98.00%	0.0%	2.00%	80.9%	12.6%	6.4%	2	Soft	50	0.5	20
28	53.8	55.6	56.5	6	14	29	Oak Street	1st Street to Alisal Road	1,327	35	0.0%	98.00%	0.0%	2.00%	78.0%	16.3%	5.7%	2	Soft	50	0.5	20
29	58.4	60.5	61.1	13	28	60	Oak Street	2nd Street to 5th Street	3,876	35	0.0%	98.00%	0.0%	2.00%	80.9%	12.5%	6.6%	2	Soft	50	0.5	20
30	38.8	40.4	41.3	1	1	3	Elverhoy Way	1st Street to Alisal Road	43	35	0.0%	98.00%	0.0%	2.00%	79.8%	15.4%	4.8%	2	Soft	50	0.5	20