

Appendix C

Noise

AM Peak Hour												PM Peak Hour															
NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR		
771	0	920	0	0	0	0	1581	0	0	858	0 Marsh & 101 NB	1	570	0	601	0	0	0	0	1850	0	0	954	0	4130	3975	
0	0	0	1223	0	511	0	936	0	0	1462	0 Marsh & 101 SB	2	0	0	0	1234	0	350	0	959	0	0	1000	0	4132	3543	
13	4	58	225	19	0	24	1095	7	448	1226	303 Marsh & Scott	3	15	5	389	262	6	4	35	1326	7	55	840	193	3422	3137	
35	16	25	533	47	143	114	811	80	29	1025	428 Marsh & Bohannon	4	109	50	40	445	19	159	180	675	38	13	773	361	3286	2862	
39	19	202	147	63	2	0	822	85	287	758	48 Marsh & Bay	5	65	11	267	45	14	2	2	752	50	167	699	56	2472	2130	
1174	2217	72	349	451	172	207	438	277	37	79	72 Willow & Bayfront	6	559	731	34	82	1957	118	132	95	1112	159	238	134	5545	5351	
260	79	71	23	133	349	143	1596	255	40	1318	7 Willow & Newbridge	7	191	270	96	28	170	240	317	1310	243	78	1214	26	4274	4183	
529	0	789	0	0	0	0	1140	513	1	1748	424 Willow & 101 NB	8	265	0	859	0	0	0	0	1163	323	0	1308	495	5144	4413	
0	0	0	578	0	391	0	1093	623	0	1378	826 Willow & 101 SB	9	0	0	0	556	0	352	0	927	199	0	919	660	4889	3613	
0	0	0	397	0	60	65	1233	0	0	1217	581 Willow & Bay	10	0	0	0	282	0	49	20	1355	0	1	685	167	3553	2559	
59	11	127	67	7	32	22	898	7	36	928	108 Willow & Durham	11	21	7	38	132	1	31	9	1029	4	29	533	18	2302	1852	
1	2	6	206	6	59	28	783	7	4	878	112 Willow & Coleman	12	15	4	6	98	2	37	13	693	5	2	699	100	2092	1674	
92	94	93	20	82	11	7	707	75	52	919	0 Willow & Gilbert	13	75	50	58	21	88	5	3	656	80	54	675	10	2152	1775	
106	344	177	335	365	21	27	271	116	374	104	426 Willow & Middlefield	14	101	439	203	277	460	14	30	213	209	372	86	289	2666	2693	
0	0	0	177	0	20	25	244	2	3	52	233 Willow & Laurel	15	0	0	0	304	0	3	23	306	0	0	68	224	756	928	
21	567	114	233	656	56	6	11	9	157	28	293 Middlefield	17	2	662	107	292	586	2	34	32	32	69	0	208	2151	2026	
185	71	20	99	163	43	11	489	68	17	527	11 Ravenswood & Laurel	18	240	124	38	42	109	24	103	528	102	38	457	31	1704	1836	
16	789	145	199	1694	85	8	54	12	73	15	146 Real	19	31	1728	95	125	1242	10	22	11	15	99	3	247	3236	3628	
105	702	56	39	1128	549	242	144	112	85	218	25 Camino Real	20	97	1464	59	41	983	223	299	149	78	59	183	49	3405	3684	
112	733	70	88	1215	51	83	193	72	113	220	40 Camino Real	21	89	1467	64	86	1019	60	120	174	134	95	210	80	2990	3598	
0	802	89	0	1362	79	80	77	163	77	40	31 Camino Real	22	0	1446	54	0	1156	89	146	43	141	61	46	37	2800	3219	
96	773	460	135	1406	24	30	322	49	418	204	61 Camino Real	23	68	1131	337	187	1046	63	47	272	71	407	255	69	3978	3953	
178	1221	0	0	1760	89	213	0	300	0	0	0 Real	24	383	1851	0	0	1489	87	176	0	230	0	0	0	3761	4216	
90	99	37	69	52	63	157	403	114	47	500	63 University	25	221	31	64	33	31	68	36	380	86	51	427	36	1694	1464	
241	0	101	0	0	0	0	420	417	73	276	0 University	26	313	0	143	0	0	0	0	330	306	93	371	0	1528	1556	
62	54	32	77	47	90	8	332	40	18	220	80 Middle & University	27	36	77	21	110	73	111	54	260	36	13	268	150	1060	1209	
98	593	411	221	659	216	284	1182	227	258	506	52 Cruz	28	195	821	164	97	605	147	359	564	176	309	895	186	4707	4518	
0	1	2	179	1	174	186	1467	5	10	673	Sand Hill & Sharon	29	8	1	15	166	1	149	143	892	6	11	1007	240	2843	2639	
0	79	540	57	0	0	89	1750	0	0	0	Sand Hill & I-280 NB	30	0	26	153	67	0	0	10	630	0	0	0	0	2515	886	
1	167	0	0	55	40	0	0	0	2	839	27 On	31	4	32	0	0	62	168	0	0	0	5	1824	8	1131	2103	
0	905	592	613	550	0	0	0	0	78	0	Juniperos Serra & 210 Alpine	32	0	594	146	304	782	0	0	0	0	382	0	555	2948	2763	

Baseline

ROAD SEGMENT			TOTAL # VEHICLES	VEHICLE TYPE %						Auto	k/h
				Auto	MT	HT					
from:	to:			%	Auto	%	MT	%	HT		
Calveno Peak											
Marsh	Scott	Bohannon	2307	97	2237.79	2	46.14	1	23.07	35	56
Marsh	Bohannon	Bay	1986	97	1926.42	2	39.72	1	19.86	35	56
Willow	Hamilton	Newbridge	2752	97	2669.44	2	55.04	1	27.52	35	56
Willow	Newbridge	U.S. 101	3825	97	3710.25	2	76.5	1	38.25	35	56
Willow	U.S. 101	Durham	1779	97	1725.63	2	35.58	1	17.79	25	40
Willow	Durham	Coleman	1598	97	1550.06	2	31.96	1	15.98	25	40
Willow	Gilbert	Middlefield	1440	97	1396.8	2	28.8	1	14.4	25	40
Willow	Middlefield	Laurel	902	97	874.94	2	18.04	1	9.02	25	40
Middlefield	Willow	Ringwood	1509	97	1463.73	2	30.18	1	15.09	35	56
Middlefield	Ringwood	Oak Grove	1784	97	1730.48	2	35.68	1	17.84	35	56
Ravenswood	Middlefield	Laurel	1134	97	1099.98	2	22.68	1	11.34	25	40
Ravenswood	Laurel	Alma	1454	97	1410.38	2	29.08	1	14.54	25	40
ECR	Allejandra	Encinal	3374	97	3272.78	2	67.48	1	33.74	35	56
ECR	Encinal	Valparaiso	3059	97	2967.23	2	61.18	1	30.59	35	56
ECR	Valparaiso	Oak Grove	2832	97	2747.04	2	56.64	1	28.32	35	56
ECR	Oak Grove	Santa Cruz	2874	97	2787.78	2	57.48	1	28.74	35	56
ECR	Santa Cruz	Ravenswood	2543	97	2466.71	2	50.86	1	25.43	35	56
ECR	Ravenswood	Middle	3603	97	3494.91	2	72.06	1	36.03	35	56
Encinal	ECR	Laurel	580	97	562.6	2	11.6	1	5.8	25	40
Valparaiso	ECR	University	1029	97	998.13	2	20.58	1	10.29	30	48
Glenwood	ECR	Middlefield	540	97	523.8	2	10.8	1	5.4	25	40
Oak Grove	ECR	University	787	97	763.39	2	15.74	1	7.87	25	40
Oak Grove	ECR	Middlefield	709	97	687.73	2	14.18	1	7.09	25	40
Ravenswood	ECR	Laurel	1527	97	1481.19	2	30.54	1	15.27	25	40
Menlo	ECR	Chestnut	776	97	752.72	2	15.52	1	7.76	25	40
Middle	ECR	University	876	97	849.72	2	17.52	1	8.76	25	40
Sand Hill	Oak	Santa Cruz	2215	97	2148.55	2	44.3	1	22.15	35	56
Sand Hill	Santa Cruz	Sharon Park	2331	97	2261.07	2	46.62	1	23.31	35	56
Sand Hill	Sharon Park	I-280	2205	97	2138.85	2	44.1	1	22.05	40	64
Santa Cruz	Sand Hill	Alameda	2215	97	2148.55	2	44.3	1	22.15	25	40
Alpine	JSB	Bishop	1122	97	1088.34	2	22.44	1	11.22	35	56

Assumptions: PM peak hour traffic data from Hexagon

VEHICLE SPEED				Auto	NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL (15 meters from roadway center)	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
MT	k/h	HT	k/h		MT	HT						
35	56	35	56	67.8	60.7	64.4	70.0	40	65.7	47.2	154.7	
35	56	35	56	67.2	60.0	63.7	69.3	40	65.1	40.6	133.2	
35	56	35	56	68.6	61.4	65.1	70.7	40	66.5	56.3	184.6	
35	56	35	56	70.0	62.9	66.6	72.2	40	67.9	78.2	256.5	
25	40	25	40	62.5	57.3	61.9	65.9	40	61.6	18.3	59.9	
25	40	25	40	62.0	56.8	61.4	65.4	40	61.1	16.4	53.8	
25	40	25	40	61.6	56.3	61.0	64.9	40	60.7	14.8	48.5	
25	40	25	40	59.5	54.3	59.0	62.9	40	58.6	9.3	30.4	
35	56	35	56	66.0	58.8	62.5	68.1	40	63.9	30.8	101.2	
35	56	35	56	66.7	59.6	63.3	68.9	40	64.6	36.5	119.6	
25	40	25	40	60.5	55.3	59.9	63.9	40	59.6	11.6	38.2	
25	40	25	40	61.6	56.4	61.0	65.0	40	60.7	14.9	48.9	
35	56	35	56	69.5	62.3	66.0	71.6	40	67.4	69.0	226.3	
35	56	35	56	69.0	61.9	65.6	71.2	40	66.9	62.5	205.1	
35	56	35	56	68.7	61.6	65.3	70.9	40	66.6	57.9	189.9	
35	56	35	56	68.8	61.6	65.3	70.9	40	66.7	58.7	192.7	
35	56	35	56	68.2	61.1	64.8	70.4	40	66.1	52.0	170.5	
35	56	35	56	69.7	62.6	66.3	71.9	40	67.7	73.6	241.6	
25	40	25	40	57.6	52.4	57.0	61.0	40	56.7	6.0	19.5	
30	48	30	48	62.4	56.1	60.3	65.0	40	60.8	15.2	49.7	
25	40	25	40	57.3	52.1	56.7	60.7	40	56.4	5.5	18.2	
25	40	25	40	58.9	53.7	58.4	62.3	40	58.1	8.1	26.5	
25	40	25	40	58.5	53.3	57.9	61.9	40	57.6	7.3	23.9	
25	40	25	40	61.8	56.6	61.2	65.2	40	60.9	15.7	51.4	
25	40	25	40	58.9	53.7	58.3	62.2	40	58.0	8.0	26.1	
25	40	25	40	59.4	54.2	58.8	62.8	40	58.5	9.0	29.5	
35	56	35	56	67.6	60.5	64.2	69.8	40	65.5	45.3	148.5	
35	56	35	56	67.9	60.7	64.4	70.0	40	65.8	47.6	156.3	
40	64	40	64	69.3	61.4	64.7	71.1	40	66.8	60.8	199.3	
25	40	25	40	63.4	58.2	62.9	66.8	40	62.5	22.7	74.6	
35	56	35	56	64.7	57.5	61.2	66.8	40	62.6	22.9	75.2	

Baseline + HEU

ROAD SEGMENT			TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (d)	
				Auto		MT		HT		Auto		k/h		MT		k/h	
from:	to:		%	Auto	%	MT	%	HT		k/h		k/h	HT	k/h			
Calveno																	
Peak																	
Marsh	Scott	Bohannon	2427	97	2354.19	2	48.54	1	24.27	35	56	35	56	35	56	68.0	60.9
Marsh	Bohannon	Bay	2072	97	2009.84	2	41.44	1	20.72	35	56	35	56	35	56	67.3	60.2
Willow	Hamilton	Newbridge	2838	97	2752.86	2	56.76	1	28.38	35	56	35	56	35	56	68.7	61.6
Willow	Newbridge	U.S. 101	3953	97	3834.41	2	79.06	1	39.53	35	56	35	56	35	56	70.1	63.0
Willow	U.S. 101	Durham	1991	97	1931.27	2	39.82	1	19.91	25	40	25	40	25	40	63.0	57.8
Willow	Durham	Coleman	1810	97	1755.7	2	36.2	1	18.1	25	40	25	40	25	40	62.5	57.3
Willow	Gilbert	Middlefield	1658	97	1608.26	2	33.16	1	16.58	25	40	25	40	25	40	62.2	57.0
Willow	Middlefield	Laurel	958	97	929.26	2	19.16	1	9.58	25	40	25	40	25	40	59.8	54.6
Middlefield	Willow	Ringwood	1793	97	1739.21	2	35.86	1	17.93	35	56	35	56	35	56	66.7	59.6
Middlefield	Ringwood	Oak Grove	1937	97	1878.89	2	38.74	1	19.37	35	56	35	56	35	56	67.0	59.9
Ravenswood	Middlefield	Laurel	1233	97	1196.01	2	24.66	1	12.33	25	40	25	40	25	40	60.9	55.7
Ravenswood	Laurel	Alma	1591	97	1543.27	2	31.82	1	15.91	25	40	25	40	25	40	62.0	56.8
ECR	Allejandra	Encinal	3613	97	3504.61	2	72.26	1	36.13	35	56	35	56	35	56	69.8	62.6
ECR	Encinal	Valparaiso	3368	97	3266.96	2	67.36	1	33.68	35	56	35	56	35	56	69.5	62.3
ECR	Valparaiso	Oak Grove	3064	97	2972.08	2	61.28	1	30.64	35	56	35	56	35	56	69.0	61.9
ECR	Oak Grove	Santa Cruz	3086	97	2993.42	2	61.72	1	30.86	35	56	35	56	35	56	69.1	61.9
ECR	Santa Cruz	Ravenswood	2798	97	2714.06	2	55.96	1	27.98	35	56	35	56	35	56	68.6	61.5
ECR	Ravenswood	Middle	3859	97	3743.23	2	77.18	1	38.59	35	56	35	56	35	56	70.0	62.9
Encinal	ECR	Laurel	582	97	564.54	2	11.64	1	5.82	25	40	25	40	25	40	57.6	52.4
Valparaiso	ECR	University	1088	97	1055.36	2	21.76	1	10.88	30	48	30	48	30	48	62.6	56.4
Glenwood	ECR	Middlefield	629	97	610.13	2	12.58	1	6.29	25	40	25	40	25	40	58.0	52.7
Oak Grove	ECR	University	939	97	910.83	2	18.78	1	9.39	25	40	25	40	25	40	59.7	54.5
Oak Grove	ECR	Middlefield	843	97	817.71	2	16.86	1	8.43	25	40	25	40	25	40	59.2	54.0
Ravenswood	ECR	Laurel	1719	97	1667.43	2	34.38	1	17.19	25	40	25	40	25	40	62.3	57.1
Menlo	ECR	Chestnut	953	97	924.41	2	19.06	1	9.53	25	40	25	40	25	40	59.8	54.6
Middle	ECR	University	928	97	900.16	2	18.56	1	9.28	25	40	25	40	25	40	59.6	54.4
Sand Hill	Oak	Santa Cruz	2273	97	2204.81	2	45.46	1	22.73	35	56	35	56	35	56	67.7	60.6
Sand Hill	Santa Cruz	Sharon Park	2473	97	2398.81	2	49.46	1	24.73	35	56	35	56	35	56	68.1	61.0
Sand Hill	Sharon Park	I-280	2395	97	2323.15	2	47.9	1	23.95	40	64	40	64	40	64	69.6	61.7
Santa Cruz	Sand Hill	Alameda	2315	97	2245.55	2	46.3	1	23.15	25	40	25	40	25	40	63.6	58.4
Alpine	JSB	Bishop	1140	97	1105.8	2	22.8	1	11.4	35	56	35	56	35	56	64.7	57.6

Assumptions: PM peak hour traffic data from Hexagon

BA) HT	CALCULATED NOISE LEVEL (15 meters from roadway center)	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
64.6	70.2	40	65.9	49.6	162.8
63.9	69.5	40	65.2	42.4	139.0
65.3	70.9	40	66.6	58.0	190.3
66.7	72.3	40	68.1	80.8	265.1
62.4	66.3	40	62.1	20.4	67.0
62.0	65.9	40	61.7	18.6	60.9
61.6	65.5	40	61.3	17.0	55.8
59.2	63.2	40	58.9	9.8	32.2
63.3	68.9	40	64.6	36.6	120.2
63.6	69.2	40	65.0	39.6	129.9
60.3	64.3	40	60.0	12.7	41.5
61.4	65.4	40	61.1	16.3	53.6
66.3	71.9	40	67.7	73.8	242.3
66.0	71.6	40	67.4	68.8	225.9
65.6	71.2	40	66.9	62.6	205.5
65.6	71.2	40	67.0	63.1	207.0
65.2	70.8	40	66.6	57.2	187.6
66.6	72.2	40	67.9	78.9	258.8
57.0	61.0	40	56.7	6.0	19.6
60.5	65.3	40	61.0	16.0	52.6
57.4	61.3	40	57.1	6.5	21.2
59.1	63.1	40	58.8	9.6	31.6
58.7	62.6	40	58.3	8.6	28.4
61.8	65.7	40	61.4	17.6	57.9
59.2	63.1	40	58.9	9.8	32.1
59.1	63.0	40	58.8	9.5	31.2
64.3	69.9	40	65.7	46.5	152.4
64.7	70.3	40	66.0	50.5	165.8
65.1	71.4	40	67.2	66.0	216.5
63.0	67.0	40	62.7	23.8	77.9
61.3	66.9	40	62.7	23.3	76.5

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	777	0	1015	0	0	0	0	0	1593	0	0	897	0 Marsh & 101 NB	1	587	0	718	0	0
2	0	0	0	1223	0	530	0	998	0	0	1471	0 Marsh & 101 SB	2	0	0	0	1273	0	
3	13	9	206	225	19	1	27	1175	7	470	1254	306 Marsh & Scott	3	15	7	423	268	8	
4	80	59	84	538	56	144	126	835	105	46	1037	428 Marsh & Bohannon	4	128	66	71	448	39	
5	40	19	236	147	64	2	0	849	86	312	781	53 Marsh & Bay	5	65	11	288	45	14	
6	1195	2217	72	349	458	175	214	490	306	37	83	72 Willow & Bayfront	6	583	737	34	82	2055	
7	264	79	94	30	167	465	149	1647	260	40	1355	7 Willow & Newbridge	7	196	311	96	28	171	
8	546	0	789	0	0	0	0	1238	544	1	1869	424 Willow & 101 NB	8	295	0	859	0	0	
9	0	0	0	621	0	401	0	1204	659	0	1446	884 Willow & 101 SB	9	0	0	0	630	0	
10	0	0	0	436	0	68	67	1359	0	0	1288	626 Willow & Bay	10	0	0	0	293	0	
11	59	11	148	68	9	32	22	1026	7	36	1006	108 Willow & Durham	11	21	7	43	132	1	
12	1	2	6	271	6	61	29	911	7	4	956	112 Willow & Coleman	12	15	4	6	103	2	
13	99	95	93	20	88	11	7	835	134	74	997	0 Willow & Gilbert	13	89	50	58	26	88	
14	113	430	179	434	438	25	35	283	130	379	131	493 Willow & Middlefield	14	107	501	208	355	511	
15	0	0	0	190	0	20	25	274	2	3	62	260 Willow & Laurel Ringwood &	15	0	0	0	318	0	
17	69	611	114	274	691	68	37	11	112	157	28	313 Middlefield	17	89	693	111	292	627	
18	237	122	20	103	182	43	13	523	84	18	557	21 Ravenswood & Laurel Encinal & El Camino	18	268	124	46	65	158	
19	16	922	146	199	1810	85	8	54	12	74	15	146 Real Valparaiso & El	19	31	1849	96	126	1358	
20	105	824	56	44	1223	573	261	149	112	85	268	38 Camino Real Oak Grove & El	20	97	1566	71	92	1089	
21	139	831	124	95	1280	74	101	211	93	117	242	46 Camino Real Santa Cruz & El	21	108	1541	86	91	1104	
22	56	899	97	0	1428	104	113	77	215	154	40	31 Camino Real Ravenswood & El	22	46	1515	55	0	1242	
23	120	879	472	146	1491	44	95	377	68	445	262	93 Camino Real Middle & El Camino	23	85	1210	361	214	1145	
24	210	1348	0	0	1886	94	229	0	322	0	0	0 Real Valparaiso &	24	402	1961	0	0	1614	
25	134	99	39	69	52	63	157	404	117	47	529	63 University Santa Cruz &	25	242	31	64	33	31	
26	305	0	150	0	0	0	0	467	436	73	299	0 University	26	331	0	143	0	0	
27	64	56	32	87	47	102	8	346	40	44	241	105 Middle & University	27	59	119	21	115	74	
28	108	609	414	229	688	229	321	1212	255	269	515	52 Sand Hill & Santa Cruz Sand Hill & Sharon	28	219	849	174	101	621	
29	0	1	2	203	1	199	207	1562	5	10	705	149 Park Sand Hill & I-280 NB	29	8	1	15	174	1	
30	0	79	546	57	0	0	89	1761	0	0	0	0 Off	30	0	26	190	67	0	

31	1	167	0	0	55	40	0	0	0	2	889	Sand Hill & I-280 NB 27 On	31	4	32	0	0	62
32	0	925	594	640	595	0	0	0	0	78	0	Juniperos Serra & 218 Alpine	32	0	610	147	319	802

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1924	0	0	1010	0
409	0	994	0	0	1026	0
6	37	1372	7	160	908	193
170	180	691	83	62	794	361
2	2	777	55	180	726	56
123	197	99	1136	159	242	134
265	362	1351	247	78	1258	27
0	0	1223	388	0	1376	495
378	0	1003	223	0	1018	670
53	26	1443	0	1	793	204
31	9	1124	4	29	645	18
37	15	788	5	2	811	100
5	3	751	94	54	787	10
18	33	234	215	375	111	375
3	23	321	0	0	82	237
28	53	32	99	71	0	244
28	103	559	146	38	487	38
11	22	11	15	99	3	247
250	321	155	78	74	187	50
100	141	195	159	148	236	87
118	174	47	195	69	48	37
77	65	316	93	424	317	87
100	184	0	242	0	0	0
68	36	387	104	63	428	36
0	0	358	342	111	412	0
125	68	262	37	13	269	159
179	379	580	192	312	920	186
169	179	945	6	11	1088	240
0	10	655	0	0	0	0

168	0	0	0	5	1852	8
0	0	0	0	383	0	580

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	772	0	1243	0	0	0	0	0	1861	0	0	940	0 Marsh & 101 NB	1	571	0	863	0	0
2	0	0	0	1357	0	528	0	1051	0	0	1483	0 Marsh & 101 SB	2	0	0	0	1328	0	
3	13	4	68	373	19	0	41	1309	7	449	1249	340 Marsh & Scott	3	15	6	417	307	6	
4	38	22	25	634	74	228	234	955	126	29	1009	416 Marsh & Bohannon	4	127	82	40	488	34	
5	46	47	425	283	69	2	0	811	82	410	756	47 Marsh & Bay	5	65	75	297	71	22	
6	1186	2431	72	345	451	198	243	568	277	35	75	72 Willow & Bayfront	6	560	843	34	76	2209	
7	260	104	325	17	99	445	143	1877	403	40	1344	7 Willow & Newbridge	7	274	295	72	27	206	
8	406	0	790	0	0	0	0	1818	717	1	1811	425 Willow & 101 NB	8	363	0	860	0	0	
9	0	0	0	1158	0	397	0	1360	624	0	1287	849 Willow & 101 SB	9	0	0	0	796	0	
10	0	0	0	476	0	60	65	1391	0	0	1218	630 Willow & Bay	10	0	0	0	368	0	
11	59	12	349	68	14	33	23	914	7	36	925	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	784	7	4	879	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	687	149	52	937	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	387	170	325	330	20	27	281	157	375	143	427 Willow & Middlefield	14	138	463	184	277	643	
15	0	0	0	192	0	20	25	293	2	3	88	268 Willow & Laurel Ringwood &	15	0	0	0	347	0	
17	21	645	208	338	736	56	6	11	9	138	28	345 Middlefield	17	2	748	123	319	706	
18	185	102	20	169	195	38	12	450	68	25	528	31 Ravenswood & Laurel Encinal & El Camino	18	240	169	36	73	204	
19	16	953	133	368	1734	85	8	54	12	73	15	146 Real Valparaiso & El	19	31	1794	80	286	1404	
20	108	773	69	39	1150	580	241	158	112	85	282	25 Camino Real Oak Grove & El	20	96	1454	96	41	1144	
21	112	846	70	70	1224	61	79	181	72	113	263	47 Camino Real Santa Cruz & El	21	82	1474	64	81	1198	
22	0	903	105	0	1364	79	80	72	193	60	43	31 Camino Real Ravenswood & El	22	0	1450	63	0	1307	
23	96	891	460	133	1409	24	28	343	69	419	206	62 Camino Real Middle & El Camino	23	68	1148	336	182	1296	
24	298	1235	0	0	1743	95	227	0	319	0	0	0 Real Valparaiso &	24	417	1842	0	0	1704	
25	276	99	44	69	52	63	157	403	161	47	549	63 University Santa Cruz &	25	298	31	64	33	31	
26	328	0	171	0	0	0	0	409	537	73	264	0 University	26	331	0	157	0	0	
27	62	75	32	77	48	89	8	328	41	18	220	207 Middle & University	27	69	143	21	110	329	
28	133	777	412	207	673	216	289	1199	244	271	536	52 Sand Hill & Santa Cruz Sand Hill & Sharon	28	195	879	180	117	813	
29	0	1	2	187	1	174	194	1501	5	10	725	155 Park Sand Hill & I-280 NB	29	8	1	15	170	1	
30	0	214	541	57	0	0	89	1787	0	0	0	0 Off	30	0	28	138	67	0	

31	136	167	0	0	55	40	0	0	0	2	862	Sand Hill & I-280 NB 27 On	31	6	32	0	0	62
32	0	949	593	645	565	0	0	0	0	78	0	Juniperos Serra & 388 Alpine	32	0	630	146	423	845

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1934	0	0	1517	0
417	0	960	0	0	1195	0
4	49	1328	7	76	1032	266
226	287	676	53	13	998	355
2	2	746	59	401	726	66
353	203	95	1154	159	313	133
649	268	1398	324	78	1357	26
0	0	1360	434	0	1623	785
353	0	1005	199	0	1139	846
40	43	1293	0	1	798	280
38	9	1037	4	29	539	18
46	16	694	5	2	693	115
5	3	657	112	54	713	10
19	30	272	254	373	113	294
3	23	372	0	0	100	254
2	34	32	32	191	0	286
26	103	514	102	29	443	70
7	22	11	15	99	3	248
223	298	167	78	60	222	50
54	121	175	112	84	215	78
92	146	49	148	129	50	37
69	47	298	71	408	305	68
87	186	0	230	0	0	0
68	36	392	363	51	428	36
0	0	331	303	315	361	0
129	41	260	121	13	311	144
166	372	637	176	309	954	183
161	134	971	6	11	1087	240
0	10	675	0	0	0	0

168	0	0	0	5	1897	8
0	0	0	0	383	0	600

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	778	0	1243	0	0	0	0	0	1873	0	0	943	0 Marsh & 101 NB	1	588	0	863	0	0
2	0	0	0	1357	0	547	0	1111	0	0	1492	0 Marsh & 101 SB	2	0	0	0	1328	0	
3	13	4	68	373	19	1	43	1389	7	449	1277	340 Marsh & Scott	3	15	6	417	307	6	
4	73	45	84	634	81	228	234	979	136	46	1021	416 Marsh & Bohannon	4	146	94	71	488	54	
5	46	47	432	283	69	2	0	838	82	435	779	47 Marsh & Bay	5	65	75	318	71	22	
6	1207	2431	72	345	451	201	249	573	306	35	79	72 Willow & Bayfront	6	584	843	34	76	2209	
7	264	104	325	18	100	452	149	1928	408	40	1381	7 Willow & Newbridge	7	279	296	72	27	207	
8	423	0	790	0	0	0	0	1898	748	1	1862	425 Willow & 101 NB	8	393	0	860	0	0	
9	0	0	0	1158	0	407	0	1471	660	0	1355	849 Willow & 101 SB	9	0	0	0	796	0	
10	0	0	0	496	0	68	67	1517	0	0	1289	637 Willow & Bay	10	0	0	0	379	0	
11	59	12	349	68	14	33	23	1042	7	36	1003	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	912	7	4	957	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	815	149	52	1015	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	427	172	424	403	22	28	293	157	380	149	494 Willow & Middlefield	14	138	524	189	355	694	
15	0	0	0	205	0	20	25	293	2	3	88	276 Willow & Laurel	15	0	0	0	358	0	
17	69	689	208	338	771	68	37	11	112	138	28	345 Middlefield	17	89	779	123	319	747	
18	237	102	20	169	195	38	12	484	84	25	558	31 Ravenswood & Laurel	18	268	169	36	73	204	
19	16	1086	134	368	1850	85	8	54	12	74	15	146 Real	19	31	1915	81	286	1520	
20	108	895	69	40	1245	604	260	163	112	85	288	26 Camino Real	20	96	1556	96	42	1250	
21	139	944	75	77	1289	84	97	199	93	117	285	53 Camino Real	21	101	1548	68	86	1283	
22	56	1000	105	0	1430	104	113	72	245	60	43	31 Camino Real	22	46	1519	63	0	1393	
23	120	997	472	144	1494	44	44	369	88	446	231	94 Camino Real	23	85	1227	360	209	1395	
24	305	1362	0	0	1869	100	243	0	341	0	0	0 Real	24	436	1952	0	0	1829	
25	278	99	45	69	52	63	157	404	164	47	550	63 University	25	301	31	64	33	31	
26	334	0	171	0	0	0	0	456	556	73	287	0 University	26	347	0	157	0	0	
27	62	75	32	87	48	89	8	329	41	18	222	210 Middle & University	27	69	143	21	115	329	
28	143	793	415	207	687	229	326	1229	272	273	545	52 Sand Hill & Santa Cruz	28	219	892	183	117	829	
29	0	1	2	187	1	174	194	1596	5	10	757	155 Park	29	8	1	15	170	1	
30	0	214	547	57	0	0	89	1798	0	0	0	0 Off	30	0	28	155	67	0	

31	136	167	0	0	55	40	0	0	0	2	912	Sand Hill & I-280 NB 27 On	31	6	32	0	0	62
32	0	969	595	672	581	0	0	0	0	78	0	Juniperos Serra & 396 Alpine	32	0	646	147	438	865

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1940	0	0	1527	0
459	0	995	0	0	1221	0
6	50	1374	7	76	1100	266
226	287	692	82	62	1019	355
2	2	771	59	414	753	66
358	207	99	1178	159	317	133
656	275	1439	328	78	1401	27
0	0	1420	450	0	1691	785
379	0	1081	223	0	1238	846
44	49	1381	0	1	906	298
38	9	1132	4	29	651	18
46	16	789	5	2	805	115
5	3	752	112	54	825	10
20	32	281	254	376	125	380
3	23	372	0	0	100	267
28	53	32	99	191	0	286
26	103	545	146	29	473	70
7	22	11	15	99	3	248
240	320	172	78	60	226	51
70	142	196	137	89	231	85
121	174	49	202	129	50	37
83	65	323	93	425	328	86
100	194	0	242	0	0	0
68	36	393	365	52	429	36
0	0	359	313	315	402	0
129	41	262	121	13	312	153
198	392	653	192	312	979	183
161	134	1024	6	11	1168	240
0	10	700	0	0	0	0

168	0	0	0	5	1925	8
0	0	0	0	384	0	623

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	771	0	1241	0	0	0	0	0	1858	0	0	939	0 Marsh & 101 NB	1	570	0	862	0	0
2	0	0	0	1355	0	527	0	1049	0	0	1481	0 Marsh & 101 SB	2	0	0	0	1326	0	
3	13	4	68	372	19	0	41	1307	7	448	1247	339 Marsh & Scott	3	15	6	416	307	6	
4	38	22	25	633	74	228	234	954	126	29	1007	415 Marsh & Bohannon	4	127	82	40	487	34	
5	46	47	424	283	69	2	0	810	82	409	755	47 Marsh & Bay	5	65	75	297	71	22	
6	1184	2427	72	344	450	198	243	567	277	35	75	72 Willow & Bayfront	6	559	842	34	76	2206	
7	260	104	325	17	99	444	143	1874	402	40	1342	7 Willow & Newbridge	7	274	295	72	27	206	
8	405	0	789	0	0	0	0	1815	716	1	1808	424 Willow & 101 NB	8	362	0	859	0	0	
9	0	0	0	1156	0	396	0	1358	623	0	1285	848 Willow & 101 SB	9	0	0	0	795	0	
10	0	0	0	475	0	60	65	1389	0	0	1216	629 Willow & Bay	10	0	0	0	367	0	
11	59	12	348	68	14	33	23	913	7	36	924	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	783	7	4	878	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	686	149	52	936	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	386	170	325	330	20	27	281	157	374	143	426 Willow & Middlefield	14	138	462	184	277	642	
15	0	0	0	192	0	20	25	293	2	3	88	268 Willow & Laurel Ringwood &	15	0	0	0	346	0	
17	21	644	208	337	735	56	6	11	9	138	28	344 Middlefield	17	2	747	123	319	705	
18	185	102	20	169	195	38	12	449	68	25	527	31 Ravenswood & Laurel Encinal & El Camino	18	240	169	36	73	204	
19	16	952	133	367	1731	85	8	54	12	73	15	146 Real Valparaiso & El	19	31	1791	80	286	1402	
20	108	772	69	39	1148	579	241	158	112	85	282	25 Camino Real Oak Grove & El	20	96	1452	96	41	1142	
21	112	845	70	70	1222	61	79	181	72	113	263	47 Camino Real Santa Cruz & El	21	82	1472	64	81	1196	
22	0	902	105	0	1362	79	80	72	193	60	43	31 Camino Real Ravenswood & El	22	0	1448	63	0	1305	
23	96	890	459	133	1407	24	28	342	69	418	206	62 Camino Real Middle & El Camino	23	68	1146	335	182	1294	
24	298	1233	0	0	1740	95	227	0	319	0	0	0 Real Valparaiso &	24	416	1839	0	0	1701	
25	276	99	44	69	52	63	157	402	161	47	548	63 University Santa Cruz &	25	298	31	64	33	31	
26	328	0	171	0	0	0	0	408	536	73	264	0 University	26	331	0	157	0	0	
27	62	75	32	77	48	89	8	328	41	18	220	207 Middle & University	27	69	143	21	110	329	
28	133	776	411	207	672	216	289	1197	244	271	535	52 Sand Hill & Santa Cruz Sand Hill & Sharon	28	195	878	180	117	812	
29	0	1	2	187	1	174	194	1499	5	10	724	155 Park Sand Hill & I-280 NB	29	8	1	15	170	1	
30	0	214	540	57	0	0	89	1784	0	0	0	0 Off	30	0	28	138	67	0	

31	136	167	0	0	55	40	0	0	0	2	861	Sand Hill & I-280 NB 27 On	31	6	32	0	0	62
32	0	948	592	644	564	0	0	0	0	78	0	Juniperos Serra & 387 Alpine	32	0	629	146	422	844

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1931	0	0	1515	0
416	0	959	0	0	1193	0
4	49	1326	7	76	1030	266
226	287	675	53	13	997	354
2	2	745	59	400	725	66
352	203	95	1152	159	313	133
648	268	1396	324	78	1355	26
0	0	1358	433	0	1621	784
352	0	1003	199	0	1137	845
40	43	1291	0	1	797	280
38	9	1035	4	29	538	18
46	16	693	5	2	692	115
5	3	656	112	54	712	10
19	30	272	254	372	113	294
3	23	371	0	0	100	254
2	34	32	32	191	0	286
26	103	513	102	29	442	70
7	22	11	15	99	3	248
223	298	167	78	60	222	50
54	121	175	112	84	215	78
92	146	49	148	129	50	37
69	47	298	71	407	305	68
87	186	0	230	0	0	0
68	36	391	362	51	427	36
0	0	331	303	315	360	0
129	41	260	121	13	311	144
166	371	636	176	309	953	183
161	134	970	6	11	1085	240
0	10	674	0	0	0	0

168	0	0	0	5	1894	8
0	0	0	0	382	0	599

Int	AM Peak Hour												Name	Int	PM Peak Hour											
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR			NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1	771	0	1241	0	0	0	0	0	1858	0	0	939	0 Marsh & 10	1	570	0	862	0	0	0	1931	0	0	1515	0	
2	0	0	0	1355	0	527	0	1049	0	0	1481	0 Marsh & 10	2	0	0	0	1326	0	416	0	959	0	0	1193	0	
3	13	4	68	372	19	0	41	1307	7	448	1247	339 Marsh & Sc	3	15	6	416	307	6	4	49	1326	7	76	1030	266	
4	38	22	25	633	74	228	234	954	126	29	1007	415 Marsh & Bi	4	127	82	40	487	34	226	287	675	53	13	997	354	
5	46	47	424	283	69	2	0	810	82	409	755	47 Marsh & Bi	5	65	75	297	71	22	2	2	745	59	400	725	66	
6	1184	2427	72	344	450	198	243	567	277	35	75	72 Willow & B	6	559	842	34	76	2206	352	203	95	1152	159	313	133	
7	260	104	325	17	99	444	143	1874	402	40	1342	7 Willow & N	7	274	295	72	27	206	648	268	1396	324	78	1355	26	
8	405	0	789	0	0	0	0	1815	716	1	1808	424 Willow & 1	8	362	0	859	0	0	0	1358	433	0	1621	784		
9	0	0	0	1156	0	396	0	1358	623	0	1285	848 Willow & 1	9	0	0	0	795	0	352	0	1003	199	0	1137	845	
10	0	0	0	475	0	60	65	1389	0	0	1216	629 Willow & B	10	0	0	0	367	0	40	43	1291	0	1	797	280	
11	59	12	348	68	14	33	23	913	7	36	924	108 Willow & C	11	21	7	30	141	27	38	9	1035	4	29	538	18	
12	1	2	6	282	6	62	35	783	7	4	878	169 Willow & C	12	15	4	6	158	2	46	16	693	5	2	692	115	
13	137	95	93	20	114	11	7	686	149	52	936	0 Willow & C	13	80	53	58	37	113	5	3	656	112	54	712	10	
14	131	386	170	325	330	20	27	281	157	374	143	426 Willow & N	14	138	462	184	277	642	19	30	272	254	372	113	294	
15	0	0	0	192	0	20	25	293	2	3	88	268 Willow & L	15	0	0	0	346	0	3	23	371	0	0	100	254	
17	21	644	208	337	735	56	6	11	9	138	28	344 Ringwood i	17	2	747	123	319	705	2	34	32	32	191	0	286	
18	185	102	20	169	195	38	12	449	68	25	527	31 Ravenswoc	18	240	169	36	73	204	26	103	513	102	29	442	70	
19	16	952	133	367	1731	85	8	54	12	73	15	146 Encinal & E	19	31	1791	80	286	1402	7	22	11	15	99	3	248	
20	108	772	69	39	1148	579	241	158	112	85	282	25 Valparaiso	20	96	1452	96	41	1142	223	298	167	78	60	222	50	
21	112	845	70	70	1222	61	79	181	72	113	263	47 Oak Grove	21	82	1472	64	81	1196	54	121	175	112	84	215	78	
22	0	902	105	0	1362	79	80	72	193	60	43	31 Santa Cruz	22	0	1448	63	0	1305	92	146	49	148	129	50	37	
23	96	890	459	133	1407	24	28	342	69	418	206	62 Ravenswoc	23	68	1146	335	182	1294	69	47	298	71	407	305	68	
24	298	1233	0	0	1740	95	227	0	319	0	0	0 Middle & E	24	416	1839	0	0	1701	87	186	0	230	0	0	0	
25	276	99	44	69	52	63	157	402	161	47	548	63 Valparaiso	25	298	31	64	33	31	68	36	391	362	51	427	36	
26	328	0	171	0	0	0	0	408	536	73	264	0 Santa Cruz	26	331	0	157	0	0	0	0	331	303	315	360	0	
27	62	75	32	77	48	89	8	328	41	18	220	207 Middle & L	27	69	143	21	110	329	129	41	260	121	13	311	144	
28	133	776	411	207	672	216	289	1197	244	271	535	52 Sand Hill &	28	195	878	180	117	812	166	371	636	176	309	953	183	
29	0	1	2	187	1	174	194	1499	5	10	724	155 Sand Hill &	29	8	1	15	170	1	161	134	970	6	11	1085	240	
30	0	214	540	57	0	0	89	1784	0	0	0	0 Sand Hill &	30	0	28	138	67	0	0	10	674	0	0	0	0	
31	136	167	0	0	55	40	0	0	0	2	861	27 Sand Hill &	31	6	32	0	0	62	168	0	0	0	5	1894	8	
32	0	948	592	644	564	0	0	0	0	78	0	387 Juniperos S	32	0	629	146	422	844	0	0	0	0	382	0	599	

2040 Baseline

ROAD SEGMENT			TOTAL # VEHICLES	VEHICLE TYPE %					VEHICLE SPEED						NOISE LEVEL (d)		
				Auto	MT	HT	Auto	k/h	MT	k/h	HT	k/h	Auto	MT			
Calveno Peak																	
	from:	to:		%	Auto	%	MT	%	HT								
Marsh	Scott	Bohannon	2566	97	2489.02	2	51.32	1	25.66	35	56	35	56	35	56	68.3	61.1
Marsh	Bohannon	Bay	2304	97	2234.88	2	46.08	1	23.04	35	56	35	56	35	56	67.8	60.7
Willow	Hamilton	Newbridge	2954	97	2865.38	2	59.08	1	29.54	35	56	35	56	35	56	68.9	61.7
Willow	Newbridge	U.S. 101	4622	97	4483.34	2	92.44	1	46.22	35	56	35	56	35	56	70.8	63.7
Willow	U.S. 101	Durham	1791	97	1737.27	2	35.82	1	17.91	25	40	25	40	25	40	62.5	57.3
Willow	Durham	Coleman	1666	97	1616.02	2	33.32	1	16.66	25	40	25	40	25	40	62.2	57.0
Willow	Gilbert	Middlefield	1512	97	1466.64	2	30.24	1	15.12	25	40	25	40	25	40	61.8	56.6
Willow	Middlefield	Laurel	1071	97	1038.87	2	21.42	1	10.71	25	40	25	40	25	40	60.3	55.1
Middlefield	Willow	Ringwood	1724	97	1672.28	2	34.48	1	17.24	35	56	35	56	35	56	66.5	59.4
Middlefield	Ringwood	Oak Grove	2093	97	2030.21	2	41.86	1	20.93	35	56	35	56	35	56	67.4	60.3
Ravenswood	Middlefield	Laurel	1163	97	1128.11	2	23.26	1	11.63	25	40	25	40	25	40	60.6	55.4
Ravenswood	Laurel	Alma	1426	97	1383.22	2	28.52	1	14.26	25	40	25	40	25	40	61.5	56.3
ECR	Allejandra	Encinal	3756	97	3643.32	2	75.12	1	37.56	35	56	35	56	35	56	69.9	62.8
ECR	Encinal	Valparaiso	3206	97	3109.82	2	64.12	1	32.06	35	56	35	56	35	56	69.2	62.1
ECR	Valparaiso	Oak Grove	3002	97	2911.94	2	60.04	1	30.02	35	56	35	56	35	56	69.0	61.8
ECR	Oak Grove	Santa Cruz	3028	97	2937.16	2	60.56	1	30.28	35	56	35	56	35	56	69.0	61.9
ECR	Santa Cruz	Ravenswood	2806	97	2721.82	2	56.12	1	28.06	35	56	35	56	35	56	68.7	61.5
ECR	Ravenswood	Middle	3813	97	3698.61	2	76.26	1	38.13	35	56	35	56	35	56	70.0	62.9
Encinal	ECR	Laurel	727	97	705.19	2	14.54	1	7.27	25	40	25	40	25	40	58.6	53.4
Valparaiso	ECR	University	1084	97	1051.48	2	21.68	1	10.84	30	48	30	48	30	48	62.6	56.3
Glenwood	ECR	Middlefield	636	97	616.92	2	12.72	1	6.36	25	40	25	40	25	40	58.0	52.8
Oak Grove	ECR	University	759	97	736.23	2	15.18	1	7.59	25	40	25	40	25	40	58.8	53.6
Oak Grove	ECR	Middlefield	697	97	676.09	2	13.94	1	6.97	25	40	25	40	25	40	58.4	53.2
Ravenswood	ECR	Laurel	1595	97	1547.15	2	31.9	1	15.95	25	40	25	40	25	40	62.0	56.8
Menlo	ECR	Chestnut	858	97	832.26	2	17.16	1	8.58	25	40	25	40	25	40	59.3	54.1
Middle	ECR	University	919	97	891.43	2	18.38	1	9.19	25	40	25	40	25	40	59.6	54.4
Sand Hill	Oak	Santa Cruz	2378	97	2306.66	2	47.56	1	23.78	35	56	35	56	35	56	67.9	60.8
Sand Hill	Santa Cruz	Sharon Park	2491	97	2416.27	2	49.82	1	24.91	35	56	35	56	35	56	68.1	61.0
Sand Hill	Sharon Park	I-280	2364	97	2293.08	2	47.28	1	23.64	40	64	40	64	40	64	69.6	61.7
Santa Cruz	Sand Hill	Alameda	2527	97	2451.19	2	50.54	1	25.27	25	40	25	40	25	40	64.0	58.8
Alpine	JSB	Bishop	1157	97	1122.29	2	23.14	1	11.57	35	56	35	56	35	56	64.8	57.7

BA) HT	CALCULATED NOISE LEVEL (15 meters from roadway center)	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
64.8	70.4	40	66.2	52.4	172.1
64.4	70.0	40	65.7	47.1	154.5
65.4	71.0	40	66.8	60.4	198.1
67.4	73.0	40	68.7	94.5	310.0
61.9	65.9	40	61.6	18.4	60.3
61.6	65.6	40	61.3	17.1	56.1
61.2	65.1	40	60.9	15.5	50.9
59.7	63.6	40	59.4	11.0	36.1
63.1	68.7	40	64.4	35.2	115.6
64.0	69.6	40	65.3	42.8	140.4
60.1	64.0	40	59.7	11.9	39.2
60.9	64.9	40	60.6	14.6	48.0
66.5	72.1	40	67.8	76.8	251.9
65.8	71.4	40	67.1	65.5	215.0
65.5	71.1	40	66.9	61.4	201.3
65.6	71.2	40	66.9	61.9	203.1
65.2	70.8	40	66.6	57.4	188.2
66.6	72.2	40	67.9	77.9	255.7
58.0	62.0	40	57.7	7.5	24.5
60.5	65.3	40	61.0	16.0	52.4
57.4	61.4	40	57.1	6.5	21.4
58.2	62.2	40	57.9	7.8	25.6
57.8	61.8	40	57.5	7.2	23.5
61.4	65.4	40	61.1	16.4	53.7
58.7	62.7	40	58.4	8.8	28.9
59.0	63.0	40	58.7	9.4	30.9
64.5	70.1	40	65.8	48.6	159.5
64.7	70.3	40	66.0	50.9	167.1
65.0	71.4	40	67.1	65.1	213.7
63.4	67.4	40	63.1	25.9	85.1
61.4	67.0	40	62.7	23.6	77.6

2040 Baseline + HEU

ROAD SEGMENT			TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (d)	
				Auto		MT		HT		Auto	k/h	MT	k/h	HT	k/h	Auto	MT
Calveno Peak				%	Auto	%	MT	%	HT								
Marsh	from: Scott	to: Bohannon	2685	97	2604.45	2	53.7	1	26.85	35	56	35	56	35	56	68.5	61.3
Marsh	Bohannon	Bay	2392	97	2320.24	2	47.84	1	23.92	35	56	35	56	35	56	68.0	60.8
Willow	Hamilton	Newbridge	3047	97	2955.59	2	60.94	1	30.47	35	56	35	56	35	56	69.0	61.9
Willow	Newbridge	U.S. 101	4760	97	4617.2	2	95.2	1	47.6	35	56	35	56	35	56	71.0	63.8
Willow	U.S. 101	Durham	2014	97	1953.58	2	40.28	1	20.14	25	40	25	40	25	40	63.0	57.8
Willow	Durham	Coleman	1889	97	1832.33	2	37.78	1	18.89	25	40	25	40	25	40	62.7	57.5
Willow	Gilbert	Middlefield	1717	97	1665.49	2	34.34	1	17.17	25	40	25	40	25	40	62.3	57.1
Willow	Middlefield	Laurel	1095	97	1062.15	2	21.9	1	10.95	25	40	25	40	25	40	60.4	55.2
Middlefield	Willow	Ringwood	2023	97	1962.31	2	40.46	1	20.23	35	56	35	56	35	56	67.2	60.1
Middlefield	Ringwood	Oak Grove	2226	97	2159.22	2	44.52	1	22.26	35	56	35	56	35	56	67.7	60.5
Ravenswood	Middlefield	Laurel	1227	97	1190.19	2	24.54	1	12.27	25	40	25	40	25	40	60.9	55.7
Ravenswood	Laurel	Alma	1562	97	1515.14	2	31.24	1	15.62	25	40	25	40	25	40	61.9	56.7
ECR	Allejandra	Encinal	4018	97	3897.46	2	80.36	1	40.18	35	56	35	56	35	56	70.2	63.1
ECR	Encinal	Valparaiso	3491	97	3386.27	2	69.82	1	34.91	35	56	35	56	35	56	69.6	62.5
ECR	Valparaiso	Oak Grove	3238	97	3140.86	2	64.76	1	32.38	35	56	35	56	35	56	69.3	62.1
ECR	Oak Grove	Santa Cruz	3266	97	3168.02	2	65.32	1	32.66	35	56	35	56	35	56	69.3	62.2
ECR	Santa Cruz	Ravenswood	3092	97	2999.24	2	61.84	1	30.92	35	56	35	56	35	56	69.1	61.9
ECR	Ravenswood	Middle	4098	97	3975.06	2	81.96	1	40.98	35	56	35	56	35	56	70.3	63.2
Encinal	ECR	Laurel	729	97	707.13	2	14.58	1	7.29	25	40	25	40	25	40	58.6	53.4
Valparaiso	ECR	University	1141	97	1106.77	2	22.82	1	11.41	30	48	30	48	30	48	62.8	56.6
Glenwood	ECR	Middlefield	651	97	631.47	2	13.02	1	6.51	25	40	25	40	25	40	58.1	52.9
Oak Grove	ECR	University	892	97	865.24	2	17.84	1	8.92	25	40	25	40	25	40	59.5	54.3
Oak Grove	ECR	Middlefield	766	97	743.02	2	15.32	1	7.66	25	40	25	40	25	40	58.8	53.6
Ravenswood	ECR	Laurel	1732	97	1680.04	2	34.64	1	17.32	25	40	25	40	25	40	62.4	57.1
Menlo	ECR	Chestnut	978	97	948.66	2	19.56	1	9.78	25	40	25	40	25	40	59.9	54.7
Middle	ECR	University	972	97	942.84	2	19.44	1	9.72	25	40	25	40	25	40	59.8	54.6
Sand Hill	Oak	Santa Cruz	2426	97	2353.22	2	48.52	1	24.26	35	56	35	56	35	56	68.0	60.9
Sand Hill	Santa Cruz	Sharon Park	2625	97	2546.25	2	52.5	1	26.25	35	56	35	56	35	56	68.4	61.2
Sand Hill	Sharon Park	I-280	2498	97	2423.06	2	49.96	1	24.98	40	64	40	64	40	64	69.8	61.9
Santa Cruz	Sand Hill	Alameda	2610	97	2531.7	2	52.2	1	26.1	25	40	25	40	25	40	64.1	58.9
Alpine	JSB	Bishop	1177	97	1141.69	2	23.54	1	11.77	35	56	35	56	35	56	64.9	57.8

Assumptions: PM peak hour traffic data from Hexagon

BA) HT	CALCULATED NOISE LEVEL (15 meters from roadway center)	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
	65.0	70.6	40	66.4	54.9
64.5	70.1	40	65.9	48.9	160.4
65.6	71.2	40	66.9	62.3	204.3
67.5	73.1	40	68.9	97.3	319.2
62.4	66.4	40	62.1	20.7	67.8
62.2	66.1	40	61.9	19.4	63.6
61.7	65.7	40	61.4	17.6	57.8
59.8	63.7	40	59.5	11.2	36.9
63.8	69.4	40	65.1	41.4	135.7
64.2	69.8	40	65.6	45.5	149.3
60.3	64.2	40	60.0	12.6	41.3
61.3	65.3	40	61.0	16.0	52.6
66.8	72.4	40	68.1	82.1	269.5
66.2	71.8	40	67.5	71.4	234.1
65.8	71.4	40	67.2	66.2	217.2
65.9	71.5	40	67.2	66.8	219.0
65.6	71.2	40	67.0	63.2	207.4
66.9	72.5	40	68.2	83.8	274.8
58.0	62.0	40	57.7	7.5	24.5
60.7	65.5	40	61.2	16.8	55.2
57.5	61.5	40	57.2	6.7	21.9
58.9	62.9	40	58.6	9.2	30.0
58.2	62.2	40	57.9	7.9	25.8
61.8	65.7	40	61.5	17.8	58.3
59.3	63.3	40	59.0	10.0	32.9
59.3	63.2	40	59.0	10.0	32.7
64.6	70.2	40	65.9	49.6	162.7
64.9	70.5	40	66.3	53.7	176.0
65.3	71.6	40	67.4	68.8	225.8
63.6	67.5	40	63.3	26.8	87.9
61.5	67.1	40	62.8	24.1	78.9

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	777	0	1241	0	0	0	0	0	1870	0	0	942	0 Marsh & 101 NB	1	587	0	862	0	0
2	0	0	0	1355	0	547	0	1110	0	0	1490	0 Marsh & 101 SB	2	0	0	0	1326	0	
3	13	4	68	372	19	1	43	1388	7	448	1276	339 Marsh & Scott	3	15	6	416	307	6	
4	73	45	84	633	81	228	234	979	136	46	1020	415 Marsh & Bohannon	4	146	94	71	487	54	
5	46	47	431	283	69	2	0	838	82	434	779	47 Marsh & Bay	5	65	75	318	71	22	
6	1208	2427	72	344	450	201	249	572	308	35	79	72 Willow & Bayfront	6	585	842	34	76	2206	
7	264	104	325	18	100	451	149	1929	407	40	1383	7 Willow & Newbridge	7	279	296	72	27	207	
8	424	0	789	0	0	0	0	1900	749	1	1864	424 Willow & 101 NB	8	394	0	859	0	0	
9	0	0	0	1156	0	406	0	1476	661	0	1360	848 Willow & 101 SB	9	0	0	0	795	0	
10	0	0	0	495	0	68	67	1525	0	0	1295	636 Willow & Bay	10	0	0	0	378	0	
11	59	12	348	68	14	33	23	1051	7	36	1010	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	921	7	4	964	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	824	149	52	1022	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	430	172	430	407	22	28	293	157	380	149	501 Willow & Middlefield	14	138	527	189	362	697	
15	0	0	0	205	0	20	25	293	2	3	88	276 Willow & Laurel	15	0	0	0	357	0	
17	70	697	208	337	778	68	37	11	114	138	28	344 Middlefield	17	90	785	123	319	755	
18	237	102	20	169	195	38	12	485	84	25	558	31 Ravenswood & Laurel	18	268	169	36	73	204	
19	16	1097	135	367	1862	85	8	54	12	75	15	146 Real	19	31	1926	82	286	1529	
20	108	910	69	41	1256	607	264	164	112	85	289	27 Camino Real	20	96	1566	96	43	1263	
21	143	954	76	79	1295	87	99	201	96	118	288	55 Camino Real	21	103	1554	69	88	1292	
22	60	1014	105	0	1440	104	114	72	248	60	43	31 Camino Real	22	49	1527	63	0	1405	
23	120	1013	471	145	1506	44	44	369	88	445	231	95 Camino Real	23	85	1237	359	210	1410	
24	305	1377	0	0	1880	100	243	0	342	0	0	0 Real	24	436	1961	0	0	1843	
25	278	99	45	69	52	63	157	404	164	47	550	63 University	25	301	31	64	33	31	
26	334	0	171	0	0	0	0	458	556	73	288	0 University	26	348	0	157	0	0	
27	62	75	32	88	48	89	8	329	41	18	222	210 Middle & University	27	69	143	21	115	329	
28	143	794	415	207	687	229	326	1227	272	273	544	52 Sand Hill & Santa Cruz	28	219	892	183	117	829	
29	0	1	2	187	1	174	194	1594	5	10	756	155 Park	29	8	1	15	170	1	
30	0	214	546	57	0	0	89	1795	0	0	0	0 Off	30	0	28	155	67	0	

31	136	167	0	0	55	40	0	0	0	2	911	Sand Hill & I-280 NB 27 On	31	6	32	0	0	62
32	0	970	594	671	582	0	0	0	0	78	0	Juniperos Serra & 395 Alpine	32	0	647	147	437	866

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1937	0	0	1525	0
459	0	995	0	0	1219	0
6	50	1373	7	76	1099	266
226	287	692	82	62	1019	354
2	2	771	59	413	753	66
357	207	99	1179	159	317	133
655	275	1441	328	78	1402	27
0	0	1423	450	0	1694	784
379	0	1085	225	0	1243	845
44	49	1387	0	1	913	298
38	9	1138	4	29	658	18
46	16	796	5	2	812	115
5	3	759	112	54	832	10
20	32	281	254	375	125	385
3	23	371	0	0	100	267
28	53	32	101	191	0	286
26	103	546	146	29	473	70
7	22	11	15	99	3	248
243	324	173	78	60	227	52
72	145	199	140	90	233	87
122	175	49	206	129	50	37
83	65	323	93	424	329	87
100	194	0	242	0	0	0
68	36	393	364	52	429	36
0	0	361	314	315	404	0
129	41	262	121	13	312	154
198	391	652	192	313	978	183
161	134	1023	6	11	1166	240
0	10	699	0	0	0	0

168	0	0	0	5	1922	8
0	0	0	0	383	0	622

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	772	0	1243	0	0	0	0	0	1861	0	0	940	0 Marsh & 101 NB	1	571	0	863	0	0
2	0	0	0	1357	0	528	0	1051	0	0	1483	0 Marsh & 101 SB	2	0	0	0	1328	0	
3	13	4	68	373	19	0	41	1309	7	449	1249	340 Marsh & Scott	3	15	6	417	307	6	
4	38	22	25	634	74	228	234	955	126	29	1009	416 Marsh & Bohannon	4	127	82	40	488	34	
5	46	47	425	283	69	2	0	811	82	410	756	47 Marsh & Bay	5	65	75	297	71	22	
6	1186	2431	72	345	451	198	243	568	277	35	75	72 Willow & Bayfront	6	560	843	34	76	2209	
7	260	104	325	17	99	445	143	1877	403	40	1344	7 Willow & Newbridge	7	274	295	72	27	206	
8	406	0	790	0	0	0	0	1818	717	1	1811	425 Willow & 101 NB	8	363	0	860	0	0	
9	0	0	0	1158	0	397	0	1360	624	0	1287	849 Willow & 101 SB	9	0	0	0	796	0	
10	0	0	0	476	0	60	65	1391	0	0	1218	630 Willow & Bay	10	0	0	0	368	0	
11	59	12	349	68	14	33	23	914	7	36	925	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	784	7	4	879	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	687	149	52	937	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	387	170	325	330	20	27	281	157	375	143	427 Willow & Middlefield	14	138	463	184	277	643	
15	0	0	0	192	0	20	25	293	2	3	88	268 Willow & Laurel	15	0	0	0	347	0	
17	21	645	208	338	736	56	6	11	9	138	28	345 Ringwood & Middlefield	17	2	748	123	319	706	
18	185	102	20	169	195	38	12	450	68	25	528	31 Ravenswood & Laurel	18	240	169	36	73	204	
19	16	953	133	368	1734	85	8	54	12	73	15	146 Encinal & El Camino Real	19	31	1794	80	286	1404	
20	108	773	69	39	1150	580	241	158	112	85	282	25 Valparaiso & El Camino Real	20	96	1454	96	41	1144	
21	112	846	70	70	1224	61	79	181	72	113	263	47 Oak Grove & El Camino Real	21	82	1474	64	81	1198	
22	0	903	105	0	1364	79	80	72	193	60	43	31 Santa Cruz & El Camino Real Ravenswood & El Camino	22	0	1450	63	0	1307	
23	96	891	460	133	1409	24	28	343	69	419	206	62 Real	23	68	1148	336	182	1296	
24	298	1235	0	0	1743	95	227	0	319	0	0	0 Middle & El Camino Real	24	417	1842	0	0	1704	
25	276	99	44	69	52	63	157	403	161	47	549	63 Valparaiso & University	25	298	31	64	33	31	
26	328	0	171	0	0	0	0	409	537	73	264	0 Santa Cruz & University	26	331	0	157	0	0	
27	62	75	32	77	48	89	8	328	41	18	220	207 Middle & University	27	69	143	21	110	329	
28	133	777	412	207	673	216	289	1199	244	271	536	52 Sand Hill & Santa Cruz	28	195	879	180	117	813	
29	0	1	2	187	1	174	194	1501	5	10	725	155 Sand Hill & Sharon Park	29	8	1	15	170	1	
30	0	214	541	57	0	0	89	1787	0	0	0	0 Sand Hill & I-280 NB Off	30	0	28	138	67	0	
31	136	167	0	0	55	40	0	0	0	2	862	27 Sand Hill & I-280 NB On	31	6	32	0	0	62	
32	0	949	593	645	565	0	0	0	0	78	0	388 Juniperos Serra & Alpine	32	0	630	146	423	845	

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1934	0	0	1517	0
417	0	960	0	0	1195	0
4	49	1328	7	76	1032	266
226	287	676	53	13	998	355
2	2	746	59	401	726	66
353	203	95	1154	159	313	133
649	268	1398	324	78	1357	26
0	0	1360	434	0	1623	785
353	0	1005	199	0	1139	846
40	43	1293	0	1	798	280
38	9	1037	4	29	539	18
46	16	694	5	2	693	115
5	3	657	112	54	713	10
19	30	272	254	373	113	294
3	23	372	0	0	100	254
2	34	32	32	191	0	286
26	103	514	102	29	443	70
7	22	11	15	99	3	248
223	298	167	78	60	222	50
54	121	175	112	84	215	78
92	146	49	148	129	50	37
69	47	298	71	408	305	68
87	186	0	230	0	0	0
68	36	392	363	51	428	36
0	0	331	303	315	361	0
129	41	260	121	13	311	144
166	372	637	176	309	954	183
161	134	971	6	11	1087	240
0	10	675	0	0	0	0
168	0	0	0	5	1897	8
0	0	0	0	383	0	600

AM Peak Hour

Int	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Name	Int	NBL	NBT	NBR	SBL	SBT
1	778	0	1243	0	0	0	0	0	1873	0	0	943	0 Marsh & 101 NB	1	588	0	863	0	0
2	0	0	0	1357	0	547	0	1111	0	0	1492	0 Marsh & 101 SB	2	0	0	0	1328	0	
3	13	4	68	373	19	1	43	1389	7	449	1277	340 Marsh & Scott	3	15	6	417	307	6	
4	73	45	84	634	81	228	234	979	136	46	1021	416 Marsh & Bohannon	4	146	94	71	488	54	
5	46	47	432	283	69	2	0	838	82	435	779	47 Marsh & Bay	5	65	75	318	71	22	
6	1207	2431	72	345	451	201	249	573	306	35	79	72 Willow & Bayfront	6	584	843	34	76	2209	
7	264	104	325	18	100	452	149	1928	408	40	1381	7 Willow & Newbridge	7	279	296	72	27	207	
8	423	0	790	0	0	0	0	1898	748	1	1862	425 Willow & 101 NB	8	393	0	860	0	0	
9	0	0	0	1158	0	407	0	1471	660	0	1355	849 Willow & 101 SB	9	0	0	0	796	0	
10	0	0	0	496	0	68	67	1517	0	0	1289	637 Willow & Bay	10	0	0	0	379	0	
11	59	12	349	68	14	33	23	1042	7	36	1003	108 Willow & Durham	11	21	7	30	141	27	
12	1	2	6	282	6	62	35	912	7	4	957	169 Willow & Coleman	12	15	4	6	158	2	
13	137	95	93	20	114	11	7	815	149	52	1015	0 Willow & Gilbert	13	80	53	58	37	113	
14	131	427	172	424	403	22	28	293	157	380	149	494 Willow & Middlefield	14	138	524	189	355	694	
15	0	0	0	205	0	20	25	293	2	3	88	276 Willow & Laurel	15	0	0	0	358	0	
17	69	689	208	338	771	68	37	11	112	138	28	345 Middlefield	17	89	779	123	319	747	
18	237	102	20	169	195	38	12	484	84	25	558	31 Ravenswood & Laurel	18	268	169	36	73	204	
19	16	1086	134	368	1850	85	8	54	12	74	15	146 Real	19	31	1915	81	286	1520	
20	108	895	69	40	1245	604	260	163	112	85	288	26 Camino Real	20	96	1556	96	42	1250	
21	139	944	75	77	1289	84	97	199	93	117	285	53 Camino Real	21	101	1548	68	86	1283	
22	56	1000	105	0	1430	104	113	72	245	60	43	31 Camino Real	22	46	1519	63	0	1393	
23	120	997	472	144	1494	44	44	369	88	446	231	94 Camino Real	23	85	1227	360	209	1395	
24	305	1362	0	0	1869	100	243	0	341	0	0	0 Real	24	436	1952	0	0	1829	
25	278	99	45	69	52	63	157	404	164	47	550	63 University	25	301	31	64	33	31	
26	334	0	171	0	0	0	0	456	556	73	287	0 University	26	347	0	157	0	0	
27	62	75	32	87	48	89	8	329	41	18	222	210 Middle & University	27	69	143	21	115	329	
28	143	793	415	207	687	229	326	1229	272	273	545	52 Sand Hill & Santa Cruz	28	219	892	183	117	829	
29	0	1	2	187	1	174	194	1596	5	10	757	155 Park	29	8	1	15	170	1	
30	0	214	547	57	0	0	89	1798	0	0	0	0 Off	30	0	28	155	67	0	

31	136	167	0	0	55	40	0	0	0	2	912	Sand Hill & I-280 NB 27 On	31	6	32	0	0	62
32	0	969	595	672	581	0	0	0	0	78	0	Juniperos Serra & 396 Alpine	32	0	646	147	438	865

PM Peak Hour

SBR	EBL	EBT	EBR	WBL	WBT	WBR
0	0	1940	0	0	1527	0
459	0	995	0	0	1221	0
6	50	1374	7	76	1100	266
226	287	692	82	62	1019	355
2	2	771	59	414	753	66
358	207	99	1178	159	317	133
656	275	1439	328	78	1401	27
0	0	1420	450	0	1691	785
379	0	1081	223	0	1238	846
44	49	1381	0	1	906	298
38	9	1132	4	29	651	18
46	16	789	5	2	805	115
5	3	752	112	54	825	10
20	32	281	254	376	125	380
3	23	372	0	0	100	267
28	53	32	99	191	0	286
26	103	545	146	29	473	70
7	22	11	15	99	3	248
240	320	172	78	60	226	51
70	142	196	137	89	231	85
121	174	49	202	129	50	37
83	65	323	93	425	328	86
100	194	0	242	0	0	0
68	36	393	365	52	429	36
0	0	359	313	315	402	0
129	41	262	121	13	312	153
198	392	653	192	312	979	183
161	134	1024	6	11	1168	240
0	10	700	0	0	0	0

168	0	0	0	5	1925	8
0	0	0	0	384	0	623