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**APPENDIX F**

**NOISE PREDICTION MODEL RESULTS**

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**Appendix F, Report A-1**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
1	Interstate 5	Fresno County Line	SR 165	35,000	83		17	6	23	65	100	
2	Interstate 5	SR 165	SR 152	31,000	83		17	6	23	65	100	
3	Interstate 5	SR 152	SR 33	31,000	83		17	6	23	65	100	
4	Interstate 5	SR 33	SR 140	33,000	83		17	4	21	65	100	
5	Interstate 5	SR 140	Stanislaus County Line	35,000	83		17	4	21	65	100	
6	State Route 99	Madera County Line	Childs Ave	41,000	83		17	4	23	65	100	
7	State Route 99	Childs Ave	SR 140	42,000	83		17	4	23	65	100	
8	State Route 99	SR 140	SR 59 (N)	52,000	83		17	4	16	65	100	
9	State Route 99	SR 59 (N)	Buhach Rd	56,000	83		17	4	16	65	100	
10	State Route 99	Buhach Rd	Atwater (East Atwater)	50,000	83		17	4	16	65	100	
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	37,000	83		17	4	16	65	100	
12	State Route 99	Atwater (West Atwater)	Collier Rd	46,000	83		17	4	16	65	100	
13	State Route 99	Collier Rd	Golden State Blvd	65,000	83		17	4	16	65	100	
14	State Route 99	Golden State Blvd	Stanislaus County Line	57,000	83		17	5	20	65	100	
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	2,550	83		17	4	10	65	100	
16	State Route 33	Dos Palos (Blossom Street)	SR 152	4,700	83		17	4	10	65	100	
17	State Route 33	SR 152	Henry Miller Ave	7,900	83		17	4	25	65	100	
18	State Route 33	Henry Miller Ave	Interstate 5	9,300	83		17	4	25	65	100	
19	State Route 33	Interstate 5	Gustine (SR 140 S)	4,300	83		17	4	16	65	100	
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	5,800	83		17	3	12	65	100	
21	State Route 59	Madera County Line	Mission Ave	7,600	83		17	5	7	65	100	
22	State Route 59	Mission Ave	Childs Ave	11,400	83		17	5	7	65	100	
23	State Route 59	Childs Ave	SR 99	14,000	83		17	5	7	65	100	
24	State Route 59	16th St	Santa Fe Dr	17,200	83		17	1	6	65	100	
25	State Route 59	Santa Fe Dr	Oakdale Rd	2,050	83		17	1	6	65	100	
26	State Route 59	Oakdale Rd	Snelling Rd	1,400	83		17	1	12	65	100	

**Appendix F, Report A-2**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
27	State Route 140	Interstate 5	SR 33 (West Gustine)	1,600	83		17	3	10	65	100	
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	7,000	83		17	3	12	65	100	
29	State Route 140	SR 33 (East Gustine)	SR 165	3,250	83		17	3	9	65	100	
30	State Route 140	SR 165	X st	7,400	83		17	3	8	65	100	
31	State Route 140	SR 99	Motel Dr	14,700	83		17	1	5	65	100	
32	State Route 140	Motel Dr	Santa Fe Dr	10,400	83		17	1	5	65	100	
33	State Route 140	Santa Fe Dr	Plainsburg Rd	7,200	83		17	1	3	65	100	
34	State Route 140	Planada	Mariposa County Line	4,200	83		17	1	10	65	100	
35	State Route 152	Santa Clara County Line	SR 33	23,800	83		17	4	13	65	100	
36	State Route 152	SR 33	Interstate 5	23,000	83		17	4	13	65	100	
37	State Route 152	Interstate 5	Ortigalita Rd	21,600	83		17	3	7	65	100	
38	State Route 152	Ortigalita Rd	SR 165	26,500	83		17	3	7	65	100	
39	State Route 152	SR 165	Ward Rd	32,000	83		17	3	7	65	100	
40	State Route 152	Ward Rd	SR 33	17,500	83		17	4	12	65	100	
41	State Route 152	SR 33	SR 59	15,300	83		17	4	12	65	100	
42	State Route 152	SR 59	Madera County Line	15,400	83		17	1	12	65	100	
43	State Route 165	Interstate 5	Pioneer Rd	2,400	83		17	1	9	65	100	
44	State Route 165	Pioneer Rd	SR 152	12,000	83		17	1	7	65	100	
45	State Route 165	SR 152	Overland Ave	15,500	83		17	1	8	65	100	
46	State Route 165	Overland Ave	Henry Miller Ave	6,600	83		17	1	8	65	100	
47	State Route 165	Henry Miller Ave	SR 140	5,300	83		17	1	7	65	100	
48	State Route 165	SR 140	Westside Blvd	6,300	83		17	1	9	65	100	
49	State Route 165	Westside Blvd	Williams Ave	8,500	83		17	1	9	65	100	
50	State Route 165	Williams Ave	Bloss Ave	10,500	83		17	1	9	65	100	
51	State Route 165	Bloss Ave	American Ave	11,800	83		17	1	9	65	100	
52	Arboleda Dr	SR 99	Yosemite Ave	1,600	83		17	2	2	45	100	

Appendix F, Report A-3

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
53	August Ave	Stanislaus County Line	SR 165	1,500	83		17	2	2	45	100	
54	August Ave	SR 165	Merced Ave	1,600	83		17	2	2	45	100	
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	1,100	83		17	2	2	45	100	
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	2,800	83		17	2	2	45	100	
57	Bloss Ave	Hilmar Bypass	Collier Rd	2,700	83		17	2	2	45	100	
58	Bradbury Road	Stanislaus County Line	SR 165	3,000	83		17	2	2	45	100	
59	Bradbury Road	SR 165	Hilmar Bypass	2,000	83		17	2	2	45	100	
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	2,000	83		17	2	2	45	100	
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	1,100	83		17	2	2	45	100	
62	Central Ave	Liberty Ave	Walnut Ave	650	83		17	2	2	45	100	
63	Childs Ave	Tower Rd	Planada SUDP (W)	2,900	83		17	2	2	45	100	
64	Collier Ave	Bloss Ave	SR 99	2,700	83		17	2	2	45	100	
65	El Captain Wy	Palm Ave	Santa Fe Dr	2,650	83		17	2	2	45	100	
66	G St	Merced P/A (N)	Snelling Rd	1,500	83		17	2	2	45	100	
67	Golden State Blvd	SR 99	Stanislaus County Line	10,800	83		17	2	2	45	100	
68	Griffith Ave	Bloss Ave	Golden State Blvd	1,350	83		17	2	2	45	100	
69	Gurr Rd	Sandy Mush Rd	SR 140	1,300	83		17	2	2	45	100	
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	2,250	83		17	2	2	45	100	
71	Henry Miller Ave	Ingomar Grade Road	SR 165	2,550	83		17	2	2	45	100	
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	3,000	83		17	2	2	45	100	
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	3,000	83		17	2	2	45	100	
74	La Grange Rd	SR 59	Stanislaus County Line	1,800	83		17	2	2	45	100	
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	2,450	83		17	2	2	45	100	
76	Liberty Ave	Campbell Ave	Central Ave	700	83		17	2	2	45	100	
77	Lincoln Blvd	SR 140	Livingston C/L	2,650	83		17	2	2	45	100	
78	Livingston-Cassey Wy	Olive Ave	Cressey Wy	1,250	83		17	2	2	45	100	

**Appendix F, Report A-4**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	500	83		17	2	2	45	100	
80	Mintum Rd	Madera County Line	Le Grand Rd	2,450	83		17	2	2	45	100	
81	Olive Ave	Campus Pkwy	Arboleda Dr	1,850	83		17	2	2	45	100	
82	Peach Ave	Dwight Wy	Sultana Dr	250	83		17	2	2	45	100	
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	900	83		17	2	2	45	100	
84	Plainsburg Rd	SR 99	Gerard Ave	1,200	83		17	2	2	45	100	
85	Sandy Mush Rd	Nickel Rd	SR 99	400	83		17	2	2	45	100	
86	Santa Fe Ave	Madera County Line	Fresno Rd	1,150	83		17	2	2	45	100	
87	Santa Fe Ave	Fresno Rd	Miles Creek	1,300	83		17	2	2	45	100	
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	21,650	83		17	2	2	45	100	
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	10,100	83		17	2	2	45	100	
90	Santa Fe Dr	Olive Ave	Bradbury Road	4,800	83		17	2	2	45	100	
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	4,450	83		17	2	2	45	100	
92	Shaffer Rd	Olive Ave	Oakdale Rd	3,500	83		17	2	2	45	100	
93	Snelling Rd	G St	SR 59	1,900	83		17	2	2	45	100	
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	1,050	83		17	2	2	45	100	
95	Sultana Dr	SR 140	Westside Blvd	200	83		17	2	2	45	100	
96	Turner Island Rd	SR 152	Sand Slough Rd	1,300	83		17	2	2	45	100	
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	3,050	83		17	2	2	45	100	
98	Volta Rd	Pioneer Rd	SR 152	800	83		17	2	2	45	100	
99	Volta Rd	SR 152	Ingomar Grade	1,200	83		17	2	2	45	100	
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	4,400	83		17	2	2	45	100	
101	Walnut Ave	Sultana Dr	Vine Ave	4,400	83		17	2	2	45	100	
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	400	83		17	2	2	45	100	
103	Westside Blvd	SR 165	SR 99	2,000	83		17	2	2	45	100	
104	Yosemite Ave	UC Community SUDP	Arboleda Dr	1,950	83		17	2	2	45	100	

**Appendix F, Report A-5**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
1	Interstate 5	Fresno County Line	SR 165	70.5	65.9	75.2	77
2	Interstate 5	SR 165	SR 152	70.0	65.4	74.7	76
3	Interstate 5	SR 152	SR 33	70.0	65.4	74.7	76
4	Interstate 5	SR 33	SR 140	70.5	63.9	74.6	76
5	Interstate 5	SR 140	Stanislaus County Line	70.7	64.1	74.8	77
6	State Route 99	Madera County Line	Childs Ave	71.3	64.8	75.9	77
7	State Route 99	Childs Ave	SR 140	71.4	64.9	76.0	78
8	State Route 99	SR 140	SR 59 (N)	72.7	65.9	75.4	78
9	State Route 99	SR 59 (N)	Buhach Rd	73.0	66.2	75.7	78
10	State Route 99	Buhach Rd	Atwater (East Atwater)	72.6	65.7	75.2	77
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	71.2	64.4	73.9	76
12	State Route 99	Atwater (West Atwater)	Collier Rd	72.2	65.3	74.8	77
13	State Route 99	Collier Rd	Golden State Blvd	73.7	66.8	76.3	79
14	State Route 99	Golden State Blvd	Stanislaus County Line	72.8	67.2	76.7	79
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	59.9	52.8	60.2	63
16	State Route 33	Dos Palos (Blossom Street)	SR 152	62.6	55.4	62.9	66
17	State Route 33	SR 152	Henry Miller Ave	64.0	57.7	69.1	71
18	State Route 33	Henry Miller Ave	Interstate 5	64.7	58.4	69.8	71
19	State Route 33	Interstate 5	Gustine (SR 140 S)	61.9	55.0	64.5	67
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	63.5	55.1	64.6	67
21	State Route 59	Madera County Line	Mission Ave	64.8	58.5	63.4	68
22	State Route 59	Mission Ave	Childs Ave	66.5	60.2	65.2	69
23	State Route 59	Childs Ave	SR 99	67.4	61.1	66.1	70
24	State Route 59	16th St	Santa Fe Dr	68.6	55.0	66.3	71
25	State Route 59	Santa Fe Dr	Oakdale Rd	59.3	45.8	57.0	61
26	State Route 59	Oakdale Rd	Snelling Rd	57.4	44.1	58.4	61

**Appendix F, Report A-6**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium	Heavy	Total
		From	To		Trucks	Trucks	
27	State Route 140	Interstate 5	SR 33 (West Gustine)	58.0	49.5	58.2	61
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	64.3	55.9	65.4	68
29	State Route 140	SR 33 (East Gustine)	SR 165	61.1	52.6	60.8	64
30	State Route 140	SR 165	X st	64.7	56.1	63.9	68
31	State Route 140	SR 99	Motel Dr	67.9	54.3	64.8	70
32	State Route 140	Motel Dr	Santa Fe Dr	66.4	52.8	63.3	68
33	State Route 140	Santa Fe Dr	Plainsburg Rd	64.9	51.2	59.5	66
34	State Route 140	Planada	Mariposa County Line	62.3	48.9	62.4	65
35	State Route 152	Santa Clara County Line	SR 33	69.5	62.5	71.1	74
36	State Route 152	SR 33	Interstate 5	69.3	62.3	70.9	74
37	State Route 152	Interstate 5	Ortigalita Rd	69.4	60.8	67.9	72
38	State Route 152	Ortigalita Rd	SR 165	70.3	61.7	68.8	73
39	State Route 152	SR 165	Ward Rd	71.1	62.5	69.7	74
40	State Route 152	Ward Rd	SR 33	68.2	61.1	69.4	72
41	State Route 152	SR 33	SR 59	67.6	60.5	68.8	72
42	State Route 152	SR 59	Madera County Line	67.8	54.5	68.8	71
43	State Route 165	Interstate 5	Pioneer Rd	59.9	46.5	59.5	63
44	State Route 165	Pioneer Rd	SR 152	67.0	53.5	65.4	69
45	State Route 165	SR 152	Overland Ave	68.0	54.6	67.1	71
46	State Route 165	Overland Ave	Henry Miller Ave	64.3	50.9	63.4	67
47	State Route 165	Henry Miller Ave	SR 140	63.4	49.9	61.8	66
48	State Route 165	SR 140	Westside Blvd	64.1	50.7	63.7	67
49	State Route 165	Westside Blvd	Williams Ave	65.4	52.0	65.0	68
50	State Route 165	Williams Ave	Bloss Ave	66.3	52.9	65.9	69
51	State Route 165	Bloss Ave	American Ave	66.8	53.4	66.4	70
52	Arboleda Dr	SR 99	Yosemite Ave	53.8	45.2	49.7	56



**Appendix F, Report A-7**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium	Heavy	Total
		From	To		Trucks	Trucks	
53	August Ave	Stanislaus County Line	SR 165	53.5	45.0	49.5	55
53	August Ave	Stanislaus County Line	SR 165	53.8	45.2	49.7	56
54	August Ave	SR 165	Merced Ave	52.2	43.6	48.1	54
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	56.2	47.7	52.2	58
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	56.1	47.5	52.0	58
57	Bloss Ave	Hilmar Bypass	Collier Rd	56.5	48.0	52.5	58
58	Bradbury Road	Stanislaus County Line	SR 165	54.8	46.2	50.7	57
59	Bradbury Road	SR 165	Hilmar Bypass	54.8	46.2	50.7	57
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	52.2	43.6	48.1	54
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	49.9	41.3	45.8	52
62	Central Ave	Liberty Ave	Walnut Ave	56.4	47.8	52.3	58
63	Childs Ave	Tower Rd	Planada SUDP (W)	56.1	47.5	52.0	58
64	Collier Ave	Bloss Ave	SR 99	56.0	47.4	51.9	58
65	El Captain Wy	Palm Ave	Santa Fe Dr	53.5	45.0	49.5	55
66	G St	Merced P/A (N)	Snelling Rd	62.1	53.5	58.0	64
67	Golden State Blvd	SR 99	Stanislaus County Line	53.1	44.5	49.0	55
68	Griffith Ave	Bloss Ave	Golden State Blvd	52.9	44.3	48.8	55
69	Gurr Rd	Sandy Mush Rd	SR 140	55.3	46.7	51.2	57
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	55.8	47.3	51.8	58
71	Henry Miller Ave	Ingomar Grade Road	SR 165	56.5	48.0	52.5	58
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	56.5	48.0	52.5	58
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	54.3	45.7	50.2	56
74	La Grange Rd	SR 59	Stanislaus County Line	55.6	47.1	51.6	57
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	50.2	41.6	46.1	52
76	Lincoln Blvd	SR 140	Livingston C/L	56.0	47.4	51.9	58
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	52.7	44.2	48.7	55

**Appendix F, Report A-8**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: Existing

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	48.7	40.2	44.7	51
80	Mintum Rd	Madera County Line	Le Grand Rd	55.6	47.1	51.6	57
81	Olive Ave	Campus Pkwy	Arboleda Dr	54.4	45.9	50.4	56
82	Peach Ave	Dwight Wy	Sultana Dr	45.7	37.2	41.7	48
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	51.3	42.7	47.2	53
84	Plainsburg Rd	SR 99	Gerard Ave	52.5	44.0	48.5	54
85	Sandy Mush Rd	Nickel Rd	SR 99	47.8	39.2	43.7	50
86	Santa Fe Ave	Madera County Line	Fresno Rd	52.4	43.8	48.3	54
87	Santa Fe Ave	Fresno Rd	Miles Creek	52.9	44.3	48.8	55
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	65.1	56.5	61.0	67
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	61.8	53.2	57.7	64
90	Santa Fe Dr	Olive Ave	Bradbury Road	58.6	50.0	54.5	60
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	58.2	49.7	54.2	60
92	Shaffer Rd	Olive Ave	Oakdale Rd	57.2	48.6	53.1	59
93	Snelling Rd	G St	SR 59	54.5	46.0	50.5	56
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	52.0	43.4	47.9	54
95	Sultana Dr	SR 140	Westside Blvd	44.8	36.2	40.7	47
96	Turner Island Rd	SR 152	Sand Slough Rd	52.9	44.3	48.8	55
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	56.6	48.0	52.5	58
98	Volta Rd	Pioneer Rd	SR 152	50.8	42.2	46.7	53
99	Volta Rd	SR 152	Ingomar Grade	52.5	44.0	48.5	54
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	58.2	49.6	54.1	60
101	Walnut Ave	Sultana Dr	Vine Ave	58.2	49.6	54.1	60
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	47.8	39.2	43.7	50
103	Westside Blvd	SR 165	SR 99	54.8	46.2	50.7	57
104	Yosemite Ave	UC Community St	Arboleda Dr	54.7	46.1	50.6	57

**Appendix F, Report A-9**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: Existing  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
1	Interstate 5	Fresno County Line	SR 165	133	285	615	1325	2855
2	Interstate 5	SR 165	SR 152	122	263	567	1222	2633
3	Interstate 5	SR 152	SR 33	122	263	567	1222	2633
4	Interstate 5	SR 33	SR 140	121	261	562	1211	2609
5	Interstate 5	SR 140	Stanislaus County Line	126	271	584	1259	2713
6	State Route 99	Madera County Line	Childs Ave	145	313	674	1452	3129
7	State Route 99	Childs Ave	SR 140	148	318	685	1476	3180
8	State Route 99	SR 140	SR 59 (N)	148	319	686	1478	3185
9	State Route 99	SR 59 (N)	Buhach Rd	155	335	721	1553	3347
10	State Route 99	Buhach Rd	Atwater (East Atwater)	144	310	669	1440	3103
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	118	254	547	1178	2539
12	State Route 99	Atwater (West Atwater)	Collier Rd	136	294	632	1362	2935
13	State Route 99	Collier Rd	Golden State Blvd	172	370	796	1716	3696
14	State Route 99	Golden State Blvd	Stanislaus County Line	172	371	799	1722	3711
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	17	37	79	170	367
16	State Route 33	Dos Palos (Blossom Street)	SR 152	26	55	119	256	552
17	State Route 33	SR 152	Henry Miller Ave	50	108	233	502	1081
18	State Route 33	Henry Miller Ave	Interstate 5	56	121	260	560	1206
19	State Route 33	Interstate 5	Gustine (SR 140 S)	28	60	130	281	605
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	31	66	143	308	664
21	State Route 59	Madera County Line	Mission Ave	33	70	152	327	704
22	State Route 59	Mission Ave	Childs Ave	43	92	199	428	922
23	State Route 59	Childs Ave	SR 99	49	106	228	491	1058
24	State Route 59	16th St	Santa Fe Dr	52	111	240	517	1115
25	State Route 59	Santa Fe Dr	Oakdale Rd	13	27	58	125	270
26	State Route 59	Oakdale Rd	Snelling Rd	12	25	54	117	252

**Appendix F, Report A-10**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: Existing  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
27	State Route 140	Interstate 5	SR 33 (West Gustine)	12	27	57	124	266
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	35	75	162	349	752
29	State Route 140	SR 33 (East Gustine)	SR 165	19	41	89	193	415
30	State Route 140	SR 165	X st	32	70	150	323	697
31	State Route 140	SR 99	Motel Dr	45	97	208	449	968
32	State Route 140	Motel Dr	Santa Fe Dr	36	77	166	357	768
33	State Route 140	Santa Fe Dr	Plainsburg Rd	26	55	120	258	555
34	State Route 140	Planada	Mariposa County Line	23	50	107	230	496
35	State Route 152	Santa Clara County Line	SR 33	82	176	380	818	1762
36	State Route 152	SR 33	Interstate 5	80	172	371	800	1723
37	State Route 152	Interstate 5	Ortigalita Rd	64	138	297	640	1378
38	State Route 152	Ortigalita Rd	SR 165	73	158	340	733	1579
39	State Route 152	SR 165	Ward Rd	83	179	386	831	1791
40	State Route 152	Ward Rd	SR 33	65	140	302	650	1400
41	State Route 152	SR 33	SR 59	59	128	276	594	1280
42	State Route 152	SR 59	Madera County Line	58	125	269	579	1247
43	State Route 165	Interstate 5	Pioneer Rd	15	33	71	154	331
44	State Route 165	Pioneer Rd	SR 152	42	91	196	421	908
45	State Route 165	SR 152	Overland Ave	52	111	240	517	1113
46	State Route 165	Overland Ave	Henry Miller Ave	29	63	136	292	630
47	State Route 165	Henry Miller Ave	SR 140	24	53	113	244	527
48	State Route 165	SR 140	Westside Blvd	29	63	136	293	630
49	State Route 165	Westside Blvd	Williams Ave	36	77	166	357	770
50	State Route 165	Williams Ave	Bloss Ave	41	89	191	411	886
51	State Route 165	Bloss Ave	American Ave	44	96	206	445	958
52	Arboleda Dr	SR 99	Yosemite Ave	5	11	24	51	110

**Appendix F, Report A-11**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
Description: Existing  
Ldn/CNEL: Ldn  
Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
53	August Ave	Stanislaus County Line	SR 165	5	11	23	49	106
53	August Ave	Stanislaus County Line	SR 165	5	11	24	51	110
54	August Ave	SR 165	Merced Ave	4	9	19	40	86
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	7	16	35	74	160
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	7	16	34	73	157
57	Bloss Ave	Hilmar Bypass	Collier Rd	8	17	36	78	168
58	Bradbury Road	Stanislaus County Line	SR 165	6	13	28	59	128
59	Bradbury Road	SR 165	Hilmar Bypass	6	13	28	59	128
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	4	9	19	40	86
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	3	6	13	28	61
62	Central Ave	Liberty Ave	Walnut Ave	8	16	35	76	164
63	Childs Ave	Tower Rd	Planada SUDP (W)	7	16	34	73	157
64	Collier Ave	Bloss Ave	SR 99	7	15	33	72	155
65	El Captain Wy	Palm Ave	Santa Fe Dr	5	11	23	49	106
66	G St	Merced P/A (N)	Snelling Rd	18	39	85	183	394
67	Golden State Blvd	SR 99	Stanislaus County Line	5	10	21	46	99
68	Griffith Ave	Bloss Ave	Golden State Blvd	4	10	21	45	96
69	Gurr Rd	Sandy Mush Rd	SR 140	6	14	30	64	139
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	7	15	32	70	151
71	Henry Miller Ave	Ingomar Grade Road	SR 165	8	17	36	78	168
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	8	17	36	78	168
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	6	12	26	55	119
74	La Grange Rd	SR 59	Stanislaus County Line	7	15	32	68	147
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	3	6	14	30	64
76	Lincoln Blvd	SR 140	Livingston C/L	7	15	33	72	155
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	4	9	20	43	94

**Appendix F, Report A-12**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: Existing  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	2	5	11	24	51
80	Mintum Rd	Madera County Line	Le Grand Rd	7	15	32	68	147
81	Olive Ave	Campus Pkwy	Arboleda Dr	6	12	26	56	122
82	Peach Ave	Dwight Wy	Sultana Dr	1	3	7	15	32
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	3	8	16	35	75
84	Plainsburg Rd	SR 99	Gerard Ave	4	9	20	42	91
85	Sandy Mush Rd	Nickel Rd	SR 99	2	4	9	20	44
86	Santa Fe Ave	Madera County Line	Fresno Rd	4	9	19	41	89
87	Santa Fe Ave	Fresno Rd	Miles Creek	4	10	21	45	96
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	29	63	135	291	627
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	18	38	81	175	377
90	Santa Fe Dr	Olive Ave	Bradbury Road	11	23	49	107	230
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	10	22	47	101	218
92	Shaffer Rd	Olive Ave	Oakdale Rd	9	19	40	86	186
93	Snelling Rd	G St	SR 59	6	12	27	57	124
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	4	8	18	39	83
95	Sultana Dr	SR 140	Westside Blvd	1	3	6	13	28
96	Turner Island Rd	SR 152	Sand Slough Rd	4	10	21	45	96
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	8	17	37	79	170
98	Volta Rd	Pioneer Rd	SR 152	3	7	15	32	70
99	Volta Rd	SR 152	Ingomar Grade	4	9	20	42	91
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	10	22	47	101	217
101	Walnut Ave	Sultana Dr	Vine Ave	10	22	47	101	217
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	2	4	9	20	44
103	Westside Blvd	SR 165	SR 99	6	13	28	59	128
104	Yosemite Ave	UC Community St	Arboleda Dr	6	13	27	58	126

**Appendix F, Report B-1**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
1	Interstate 5	Fresno County Line	SR 165	78,356	83		17	6	23	65	100	
2	Interstate 5	SR 165	SR 152	80,026	83		17	6	23	65	100	
3	Interstate 5	SR 152	SR 33	73,957	83		17	6	23	65	100	
4	Interstate 5	SR 33	SR 140	85,157	83		17	4	21	65	100	
5	Interstate 5	SR 140	Stanislaus County Line	90,119	83		17	4	21	65	100	
6	State Route 99	Madera County Line	Childs Ave	66,601	83		17	4	23	65	100	
7	State Route 99	Childs Ave	SR 140	57,973	83		17	4	23	65	100	
8	State Route 99	SR 140	SR 59 (N)	70,350	83		17	4	16	65	100	
9	State Route 99	SR 59 (N)	Buhach Rd	69,362	83		17	4	16	65	100	
10	State Route 99	Buhach Rd	Atwater (East Atwater)	77,996	83		17	4	16	65	100	
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	66,223	83		17	4	16	65	100	
12	State Route 99	Atwater (West Atwater)	Collier Rd	85,068	83		17	4	16	65	100	
13	State Route 99	Collier Rd	Golden State Blvd	102,245	83		17	4	16	65	100	
14	State Route 99	Golden State Blvd	Stanislaus County Line	93,602	83		17	5	20	65	100	
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	7,350	83		17	4	10	65	100	
16	State Route 33	Dos Palos (Blossom Street)	SR 152	16,138	83		17	4	10	65	100	
17	State Route 33	SR 152	Henry Miller Ave	69,314	83		17	4	25	65	100	
18	State Route 33	Henry Miller Ave	Interstate 5	67,466	83		17	4	25	65	100	
19	State Route 33	Interstate 5	Gustine (SR 140 S)	58,876	83		17	4	16	65	100	
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	13,915	83		17	3	12	65	100	
21	State Route 59	Madera County Line	Mission Ave	11,733	83		17	5	7	65	100	
22	State Route 59	Mission Ave	Childs Ave	19,893	83		17	5	7	65	100	
23	State Route 59	Childs Ave	SR 99	20,159	83		17	5	7	65	100	
24	State Route 59	16th St	Santa Fe Dr	35,390	83		17	1	6	65	100	
25	State Route 59	Santa Fe Dr	Oakdale Rd	12,502	83		17	1	6	65	100	
26	State Route 59	Oakdale Rd	Snelling Rd	6,605	83		17	1	12	65	100	

**Appendix F, Report B-2**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
27	State Route 140	Interstate 5	SR 33 (West Gustine)	10,525	83		17	3	10	65	100	
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	12,399	83		17	3	12	65	100	
29	State Route 140	SR 33 (East Gustine)	SR 165	7,208	83		17	3	9	65	100	
30	State Route 140	SR 165	X st	11,937	83		17	3	8	65	100	
31	State Route 140	SR 99	Motel Dr	30,341	83		17	1	5	65	100	
32	State Route 140	Motel Dr	Santa Fe Dr	24,966	83		17	1	5	65	100	
33	State Route 140	Santa Fe Dr	Plainsburg Rd	28,286	83		17	1	3	65	100	
34	State Route 140	Planada	Mariposa County Line	10,169	83		17	1	10	65	100	
35	State Route 152	Santa Clara County Line	SR 33	69,086	83		17	4	13	65	100	
36	State Route 152	SR 33	Interstate 5	76,481	83		17	4	13	65	100	
37	State Route 152	Interstate 5	Ortigalita Rd	69,024	83		17	3	7	65	100	
38	State Route 152	Ortigalita Rd	SR 165	32,732	83		17	3	7	65	100	
39	State Route 152	SR 165	Ward Rd	31,353	83		17	3	7	65	100	
40	State Route 152	Ward Rd	SR 33	33,617	83		17	4	12	65	100	
41	State Route 152	SR 33	SR 59	22,559	83		17	4	12	65	100	
42	State Route 152	SR 59	Madera County Line	22,999	83		17	1	12	65	100	
43	State Route 165	Interstate 5	Pioneer Rd	23,105	83		17	1	9	65	100	
44	State Route 165	Pioneer Rd	SR 152	27,440	83		17	1	7	65	100	
45	State Route 165	SR 152	Overland Ave	23,260	83		17	1	8	65	100	
46	State Route 165	Overland Ave	Henry Miller Ave	21,443	83		17	1	8	65	100	
47	State Route 165	Henry Miller Ave	SR 140	9,838	83		17	1	7	65	100	
48	State Route 165	SR 140	Westside Blvd	16,386	83		17	1	9	65	100	
49	State Route 165	Westside Blvd	Williams Ave	19,072	83		17	1	9	65	100	
50	State Route 165	Williams Ave	Bloss Ave	23,578	83		17	1	9	65	100	
51	State Route 165	Bloss Ave	American Ave	27,231	83		17	1	9	65	100	
52	Arboleda Dr	SR 99	Yosemite Ave	2,450	83		17	2	2	45	100	



**Appendix F, Report B-3**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
53	August Ave	Stanislaus County Line	SR 165	6,100	83		17	2	2	45	100	
54	August Ave	SR 165	Merced Ave	6,950	83		17	2	2	45	100	
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	4,350	83		17	2	2	45	100	
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	3,100	83		17	2	2	45	100	
57	Bloss Ave	Hilmar Bypass	Collier Rd	8,500	83		17	2	2	45	100	
58	Bradbury Road	Stanislaus County Line	SR 165	3,800	83		17	2	2	45	100	
59	Bradbury Road	SR 165	Hilmar Bypass	10,800	83		17	2	2	45	100	
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	3,600	83		17	2	2	45	100	
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	4,350	83		17	2	2	45	100	
62	Central Ave	Liberty Ave	Walnut Ave	400	83		17	2	2	45	100	
63	Childs Ave	Tower Rd	Planada SUDP (W)	5,250	83		17	2	2	45	100	
64	Collier Ave	Bloss Ave	SR 99	8,500	83		17	2	2	45	100	
65	El Captain Wy	Palm Ave	Santa Fe Dr	10,000	83		17	2	2	45	100	
66	G St	Merced P/A (N)	Snelling Rd	2,050	83		17	2	2	45	100	
67	Golden State Blvd	SR 99	Stanislaus County Line	32,350	83		17	2	2	45	100	
68	Griffith Ave	Bloss Ave	Golden State Blvd	10,350	83		17	2	2	45	100	
69	Gurr Rd	Sandy Mush Rd	SR 140	8,000	83		17	2	2	45	100	
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	4,300	83		17	2	2	45	100	
71	Henry Miller Ave	Ingomar Grade Road	SR 165	3,000	83		17	2	2	45	100	
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	21,950	83		17	2	2	45	100	
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	8,100	83		17	2	2	45	100	
74	La Grange Rd	SR 59	Stanislaus County Line	2,000	83		17	2	2	45	100	
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	6,150	83		17	2	2	45	100	
76	Liberty Ave	Campbell Ave	Central Ave	950	83		17	2	2	45	100	
77	Lincoln Blvd	SR 140	Livingston C/L	3,450	83		17	2	2	45	100	
78	Livingston-Cassey Wy	Olive Ave	Cressey Wy	3,250	83		17	2	2	45	100	

**Appendix F, Report B-4**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	600	83		17	2	2	45	100	
80	Mintum Rd	Madera County Line	Le Grand Rd	4,450	83		17	2	2	45	100	
81	Olive Ave	Campus Pkwy	Arboleda Dr	8,150	83		17	2	2	45	100	
82	Peach Ave	Dwight Wy	Sultana Dr	1,400	83		17	2	2	45	100	
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	6,050	83		17	2	2	45	100	
84	Plainsburg Rd	SR 99	Gerard Ave	1,700	83		17	2	2	45	100	
85	Sandy Mush Rd	Nickel Rd	SR 99	1,000	83		17	2	2	45	100	
86	Santa Fe Ave	Madera County Line	Fresno Rd	3,050	83		17	2	2	45	100	
87	Santa Fe Ave	Fresno Rd	Miles Creek	3,000	83		17	2	2	45	100	
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	28,600	83		17	2	2	45	100	
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	20,650	83		17	2	2	45	100	
90	Santa Fe Dr	Olive Ave	Bradbury Road	14,050	83		17	2	2	45	100	
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	6,900	83		17	2	2	45	100	
92	Shaffer Rd	Olive Ave	Oakdale Rd	5,700	83		17	2	2	45	100	
93	Snelling Rd	G St	SR 59	2,800	83		17	2	2	45	100	
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	1,300	83		17	2	2	45	100	
95	Sultana Dr	SR 140	Westside Blvd	800	83		17	2	2	45	100	
96	Turner Island Rd	SR 152	Sand Slough Rd	5,200	83		17	2	2	45	100	
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	8,500	83		17	2	2	45	100	
98	Volta Rd	Pioneer Rd	SR 152	6,100	83		17	2	2	45	100	
99	Volta Rd	SR 152	Ingomar Grade	1,500	83		17	2	2	45	100	
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	5,800	83		17	2	2	45	100	
101	Walnut Ave	Sultana Dr	Vine Ave	5,800	83		17	2	2	45	100	
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	450	83		17	2	2	45	100	
103	Westside Blvd	SR 165	SR 99	1,650	83		17	2	2	45	100	
104	Yosemite Ave	UC Community SUDP	Arboleda Dr	4,200	83		17	2	2	45	100	

**Appendix F, Report B-5**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
1	Interstate 5	Fresno County Line	SR 165	74.0	69.4	78.7	80
2	Interstate 5	SR 165	SR 152	74.1	69.5	78.8	80
3	Interstate 5	SR 152	SR 33	73.7	69.1	78.5	80
4	Interstate 5	SR 33	SR 140	74.6	68.0	78.7	80
5	Interstate 5	SR 140	Stanislaus County Line	74.8	68.2	78.9	81
6	State Route 99	Madera County Line	Childs Ave	73.4	66.9	78.0	80
7	State Route 99	Childs Ave	SR 140	72.8	66.3	77.4	79
8	State Route 99	SR 140	SR 59 (N)	74.0	67.2	76.7	79
9	State Route 99	SR 59 (N)	Buhach Rd	74.0	67.1	76.6	79
10	State Route 99	Buhach Rd	Atwater (East Atwater)	74.5	67.6	77.1	79
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	73.8	66.9	76.4	79
12	State Route 99	Atwater (West Atwater)	Collier Rd	74.9	68.0	77.5	80
13	State Route 99	Collier Rd	Golden State Blvd	75.7	68.8	78.3	80
14	State Route 99	Golden State Blvd	Stanislaus County Line	75.0	69.4	78.9	81
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	64.5	57.4	64.8	68
16	State Route 33	Dos Palos (Blossom Street)	SR 152	68.0	60.8	68.2	71
17	State Route 33	SR 152	Henry Miller Ave	73.5	67.1	78.5	80
18	State Route 33	Henry Miller Ave	Interstate 5	73.3	67.0	78.4	80
19	State Route 33	Interstate 5	Gustine (SR 140 S)	73.3	66.4	75.9	78
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	67.3	58.9	68.4	71
21	State Route 59	Madera County Line	Mission Ave	66.7	60.4	65.3	70
22	State Route 59	Mission Ave	Childs Ave	69.0	62.7	67.6	72
23	State Route 59	Childs Ave	SR 99	69.0	62.7	67.6	72
24	State Route 59	16th St	Santa Fe Dr	71.7	58.2	69.4	74
25	State Route 59	Santa Fe Dr	Oakdale Rd	67.2	53.6	64.9	69
26	State Route 59	Oakdale Rd	Snelling Rd	64.1	50.9	65.1	68

**Appendix F, Report B-6**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium	Heavy	Total
		From	To		Trucks	Trucks	
27	State Route 140	Interstate 5	SR 33 (West Gustine)	66.1	57.7	66.4	70
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	66.8	58.4	67.9	71
29	State Route 140	SR 33 (East Gustine)	SR 165	64.6	56.0	64.3	68
30	State Route 140	SR 165	X st	66.8	58.2	65.9	70
31	State Route 140	SR 99	Motel Dr	71.1	57.5	68.0	73
32	State Route 140	Motel Dr	Santa Fe Dr	70.2	56.6	67.1	72
33	State Route 140	Santa Fe Dr	Plainsburg Rd	70.9	57.2	65.4	72
34	State Route 140	Planada	Mariposa County Line	66.1	52.7	66.2	69
35	State Route 152	Santa Clara County Line	SR 33	74.1	67.1	75.7	78
36	State Route 152	SR 33	Interstate 5	74.6	67.5	76.1	79
37	State Route 152	Interstate 5	Ortigalita Rd	74.5	65.8	73.0	77
38	State Route 152	Ortigalita Rd	SR 165	71.2	62.6	69.7	74
39	State Route 152	SR 165	Ward Rd	71.0	62.4	69.6	74
40	State Route 152	Ward Rd	SR 33	71.0	64.0	72.2	75
41	State Route 152	SR 33	SR 59	69.3	62.2	70.5	73
42	State Route 152	SR 59	Madera County Line	69.5	56.3	70.6	73
43	State Route 165	Interstate 5	Pioneer Rd	69.7	56.3	69.3	73
44	State Route 165	Pioneer Rd	SR 152	70.6	57.1	69.0	73
45	State Route 165	SR 152	Overland Ave	69.8	56.3	68.8	72
46	State Route 165	Overland Ave	Henry Miller Ave	69.4	56.0	68.5	72
47	State Route 165	Henry Miller Ave	SR 140	66.1	52.6	64.5	69
48	State Route 165	SR 140	Westside Blvd	68.2	54.8	67.8	71
49	State Route 165	Westside Blvd	Williams Ave	68.9	55.5	68.5	72
50	State Route 165	Williams Ave	Bloss Ave	69.8	56.4	69.4	73
51	State Route 165	Bloss Ave	American Ave	70.4	57.0	70.0	73
52	Arboleda Dr	SR 99	Yosemite Ave	55.6	47.1	51.6	57

**Appendix F, Report B-7**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
53	August Ave	Stanislaus County Line	SR 165	59.6	51.0	55.5	61
53	August Ave	Stanislaus County Line	SR 165	60.2	51.6	56.1	62
54	August Ave	SR 165	Merced Ave	58.1	49.6	54.1	60
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	56.7	48.1	52.6	59
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	61.0	52.5	57.0	63
57	Bloss Ave	Hilmar Bypass	Collier Rd	57.6	49.0	53.5	59
58	Bradbury Road	Stanislaus County Line	SR 165	62.1	53.5	58.0	64
59	Bradbury Road	SR 165	Hilmar Bypass	57.3	48.8	53.3	59
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	58.1	49.6	54.1	60
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	47.8	39.2	43.7	50
62	Central Ave	Liberty Ave	Walnut Ave	59.0	50.4	54.9	61
63	Childs Ave	Tower Rd	Planada SUDP (W)	61.0	52.5	57.0	63
64	Collier Ave	Bloss Ave	SR 99	61.8	53.2	57.7	64
65	El Captain Wy	Palm Ave	Santa Fe Dr	54.9	46.3	50.8	57
66	G St	Merced P/A (N)	Snelling Rd	66.9	58.3	62.8	69
67	Golden State Blvd	SR 99	Stanislaus County Line	61.9	53.3	57.8	64
68	Griffith Ave	Bloss Ave	Golden State Blvd	60.8	52.2	56.7	63
69	Gurr Rd	Sandy Mush Rd	SR 140	58.1	49.5	54.0	60
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	56.5	48.0	52.5	58
71	Henry Miller Ave	Ingomar Grade Road	SR 165	65.2	56.6	61.1	67
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	60.8	52.3	56.8	63
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	54.8	46.2	50.7	57
74	La Grange Rd	SR 59	Stanislaus County Line	59.6	51.1	55.6	61
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	51.5	43.0	47.5	53
76	Lincoln Blvd	SR 140	Livingston C/L	57.1	48.6	53.1	59
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	56.9	48.3	52.8	59

**Appendix F, Report B-8**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	49.5	41.0	45.5	51
80	Mintum Rd	Madera County Line	Le Grand Rd	58.2	49.7	54.2	60
81	Olive Ave	Campus Pkwy	Arboleda Dr	60.9	52.3	56.8	63
82	Peach Ave	Dwight Wy	Sultana Dr	53.2	44.7	49.2	55
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	59.6	51.0	55.5	61
84	Plainsburg Rd	SR 99	Gerard Ave	54.1	45.5	50.0	56
85	Sandy Mush Rd	Nickel Rd	SR 99	51.8	43.2	47.7	54
86	Santa Fe Ave	Madera County Line	Fresno Rd	56.6	48.0	52.5	58
87	Santa Fe Ave	Fresno Rd	Miles Creek	56.5	48.0	52.5	58
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	66.3	57.8	62.3	68
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	64.9	56.3	60.8	67
90	Santa Fe Dr	Olive Ave	Bradbury Road	63.2	54.7	59.2	65
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	60.1	51.6	56.1	62
92	Shaffer Rd	Olive Ave	Oakdale Rd	59.3	50.8	55.2	61
93	Snelling Rd	G St	SR 59	56.2	47.7	52.2	58
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	52.9	44.3	48.8	55
95	Sultana Dr	SR 140	Westside Blvd	50.8	42.2	46.7	53
96	Turner Island Rd	SR 152	Sand Slough Rd	58.9	50.4	54.8	61
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	61.0	52.5	57.0	63
98	Volta Rd	Pioneer Rd	SR 152	59.6	51.0	55.5	61
99	Volta Rd	SR 152	Ingomar Grade	53.5	45.0	49.5	55
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	59.4	50.8	55.3	61
101	Walnut Ave	Sultana Dr	Vine Ave	59.4	50.8	55.3	61
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	48.3	39.7	44.2	50
103	Westside Blvd	SR 165	SR 99	53.9	45.4	49.9	56
104	Yosemite Ave	UC Community St	Arboleda Dr	58.0	49.4	53.9	60

**Appendix F, Report B-9**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
1	Interstate 5	Fresno County Line	SR 165	227	489	1053	2268	4886
2	Interstate 5	SR 165	SR 152	230	495	1067	2300	4955
3	Interstate 5	SR 152	SR 33	218	470	1013	2182	4701
4	Interstate 5	SR 33	SR 140	228	491	1057	2278	4908
5	Interstate 5	SR 140	Stanislaus County Line	237	510	1098	2366	5097
6	State Route 99	Madera County Line	Childs Ave	201	432	932	2007	4324
7	State Route 99	Childs Ave	SR 140	183	394	849	1830	3942
8	State Route 99	SR 140	SR 59 (N)	181	390	839	1809	3896
9	State Route 99	SR 59 (N)	Buhach Rd	179	386	832	1792	3860
10	State Route 99	Buhach Rd	Atwater (East Atwater)	194	417	899	1937	4174
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	174	374	806	1737	3742
12	State Route 99	Atwater (West Atwater)	Collier Rd	205	442	953	2053	4422
13	State Route 99	Collier Rd	Golden State Blvd	232	500	1077	2320	4999
14	State Route 99	Golden State Blvd	Stanislaus County Line	240	516	1113	2397	5165
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	35	74	160	345	744
16	State Route 33	Dos Palos (Blossom Street)	SR 152	58	126	271	583	1257
17	State Route 33	SR 152	Henry Miller Ave	214	460	991	2135	4600
18	State Route 33	Henry Miller Ave	Interstate 5	210	452	973	2097	4518
19	State Route 33	Interstate 5	Gustine (SR 140 S)	161	346	745	1606	3460
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	55	119	256	552	1190
21	State Route 59	Madera County Line	Mission Ave	44	94	203	436	940
22	State Route 59	Mission Ave	Childs Ave	62	134	288	620	1337
23	State Route 59	Childs Ave	SR 99	63	135	291	626	1349
24	State Route 59	16th St	Santa Fe Dr	84	180	388	837	1803
25	State Route 59	Santa Fe Dr	Oakdale Rd	42	90	194	418	901
26	State Route 59	Oakdale Rd	Snelling Rd	33	71	153	329	709

**Appendix F, Report B-10**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
27	State Route 140	Interstate 5	SR 33 (West Gustine)	43	94	201	434	935
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	51	110	237	511	1102
29	State Route 140	SR 33 (East Gustine)	SR 165	33	71	152	328	706
30	State Route 140	SR 165	X st	44	96	206	445	958
31	State Route 140	SR 99	Motel Dr	73	157	338	728	1569
32	State Route 140	Motel Dr	Santa Fe Dr	64	138	297	639	1377
33	State Route 140	Santa Fe Dr	Plainsburg Rd	64	138	298	641	1382
34	State Route 140	Planada	Mariposa County Line	41	89	193	415	894
35	State Route 152	Santa Clara County Line	SR 33	166	359	773	1665	3586
36	State Route 152	SR 33	Interstate 5	178	384	827	1781	3838
37	State Route 152	Interstate 5	Ortigalita Rd	139	299	644	1388	2990
38	State Route 152	Ortigalita Rd	SR 165	84	182	392	844	1818
39	State Route 152	SR 165	Ward Rd	82	177	381	820	1767
40	State Route 152	Ward Rd	SR 33	100	216	466	1004	2163
41	State Route 152	SR 33	SR 59	77	166	357	770	1658
42	State Route 152	SR 59	Madera County Line	76	163	351	756	1629
43	State Route 165	Interstate 5	Pioneer Rd	70	150	323	696	1499
44	State Route 165	Pioneer Rd	SR 152	73	158	340	731	1576
45	State Route 165	SR 152	Overland Ave	68	146	314	677	1459
46	State Route 165	Overland Ave	Henry Miller Ave	64	138	298	641	1382
47	State Route 165	Henry Miller Ave	SR 140	37	80	171	369	795
48	State Route 165	SR 140	Westside Blvd	55	119	257	553	1192
49	State Route 165	Westside Blvd	Williams Ave	61	132	284	612	1319
50	State Route 165	Williams Ave	Bloss Ave	71	152	327	705	1519
51	State Route 165	Bloss Ave	American Ave	78	167	360	776	1673
52	Arboleda Dr	SR 99	Yosemite Ave	7	15	32	68	147



**Appendix F, Report B-11**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
Description: 2030  
Ldn/CNEL: Ldn  
Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
53	August Ave	Stanislaus County Line	SR 165	13	27	58	125	270
53	August Ave	Stanislaus County Line	SR 165	14	29	63	136	294
54	August Ave	SR 165	Merced Ave	10	22	46	100	215
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	8	17	37	80	172
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	16	34	72	156	336
57	Bloss Ave	Hilmar Bypass	Collier Rd	9	20	42	91	197
58	Bradbury Road	Stanislaus County Line	SR 165	18	39	85	183	394
59	Bradbury Road	SR 165	Hilmar Bypass	9	19	41	88	190
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	10	22	46	100	215
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	2	4	9	20	44
62	Central Ave	Liberty Ave	Walnut Ave	11	24	53	113	244
63	Childs Ave	Tower Rd	Planada SUDP (W)	16	34	72	156	336
64	Collier Ave	Bloss Ave	SR 99	17	37	81	174	375
65	El Captain Wy	Palm Ave	Santa Fe Dr	6	13	28	60	130
66	G St	Merced P/A (N)	Snelling Rd	38	82	177	380	820
67	Golden State Blvd	SR 99	Stanislaus County Line	18	38	83	178	383
68	Griffith Ave	Bloss Ave	Golden State Blvd	15	32	70	150	323
69	Gurr Rd	Sandy Mush Rd	SR 140	10	21	46	99	214
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	8	17	36	78	168
71	Henry Miller Ave	Ingomar Grade Road	SR 165	29	63	136	294	633
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	15	33	70	151	326
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	6	13	28	59	128
74	La Grange Rd	SR 59	Stanislaus County Line	13	27	58	126	271
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	4	8	17	36	78
76	Lincoln Blvd	SR 140	Livingston C/L	9	18	40	86	184
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	8	18	38	82	177

**Appendix F, Report B-12**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	3	6	12	27	57
80	Mintum Rd	Madera County Line	Le Grand Rd	10	22	47	101	218
81	Olive Ave	Campus Pkwy	Arboleda Dr	15	33	70	152	327
82	Peach Ave	Dwight Wy	Sultana Dr	5	10	22	47	101
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	12	27	58	124	268
84	Plainsburg Rd	SR 99	Gerard Ave	5	12	25	53	115
85	Sandy Mush Rd	Nickel Rd	SR 99	4	8	17	37	81
86	Santa Fe Ave	Madera County Line	Fresno Rd	8	17	37	79	170
87	Santa Fe Ave	Fresno Rd	Miles Creek	8	17	36	78	168
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	35	76	163	350	755
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	28	61	131	282	608
90	Santa Fe Dr	Olive Ave	Bradbury Road	22	47	101	218	470
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	14	29	63	136	293
92	Shaffer Rd	Olive Ave	Oakdale Rd	12	26	56	120	258
93	Snelling Rd	G St	SR 59	7	16	35	74	160
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	4	10	21	45	96
95	Sultana Dr	SR 140	Westside Blvd	3	7	15	32	70
96	Turner Island Rd	SR 152	Sand Slough Rd	11	24	52	112	242
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	16	34	72	156	336
98	Volta Rd	Pioneer Rd	SR 152	13	27	58	125	270
99	Volta Rd	SR 152	Ingomar Grade	5	11	23	49	106
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	12	26	56	121	261
101	Walnut Ave	Sultana Dr	Vine Ave	12	26	56	121	261
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	2	5	10	22	47
103	Westside Blvd	SR 165	SR 99	5	11	24	52	113
104	Yosemite Ave	UC Community St	Arboleda Dr	10	21	45	98	210

**Appendix F, Report C-1**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
1	Interstate 5	Fresno County Line	SR 165	78,356	83		17	6	23	65	100	
2	Interstate 5	SR 165	SR 152	80,026	83		17	6	23	65	100	
3	Interstate 5	SR 152	SR 33	73,957	83		17	6	23	65	100	
4	Interstate 5	SR 33	SR 140	85,157	83		17	4	21	65	100	
5	Interstate 5	SR 140	Stanislaus County Line	90,119	83		17	4	21	65	100	
6	State Route 99	Madera County Line	Childs Ave	66,601	83		17	4	23	65	100	
7	State Route 99	Childs Ave	SR 140	57,973	83		17	4	23	65	100	
8	State Route 99	SR 140	SR 59 (N)	70,350	83		17	4	16	65	100	
9	State Route 99	SR 59 (N)	Buhach Rd	69,362	83		17	4	16	65	100	
10	State Route 99	Buhach Rd	Atwater (East Atwater)	77,996	83		17	4	16	65	100	
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	66,223	83		17	4	16	65	100	
12	State Route 99	Atwater (West Atwater)	Collier Rd	85,068	83		17	4	16	65	100	
13	State Route 99	Collier Rd	Golden State Blvd	102,245	83		17	4	16	65	100	
14	State Route 99	Golden State Blvd	Stanislaus County Line	93,602	83		17	5	20	65	100	
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	7,350	83		17	4	10	65	100	
16	State Route 33	Dos Palos (Blossom Street)	SR 152	16,138	83		17	4	10	65	100	
17	State Route 33	SR 152	Henry Miller Ave	69,314	83		17	4	25	65	100	
18	State Route 33	Henry Miller Ave	Interstate 5	67,466	83		17	4	25	65	100	
19	State Route 33	Interstate 5	Gustine (SR 140 S)	58,876	83		17	4	16	65	100	
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	13,915	83		17	3	12	65	100	
21	State Route 59	Madera County Line	Mission Ave	11,733	83		17	5	7	65	100	
22	State Route 59	Mission Ave	Childs Ave	19,893	83		17	5	7	65	100	
23	State Route 59	Childs Ave	SR 99	20,159	83		17	5	7	65	100	
24	State Route 59	16th St	Santa Fe Dr	35,390	83		17	1	6	65	100	
25	State Route 59	Santa Fe Dr	Oakdale Rd	12,502	83		17	1	6	65	100	
26	State Route 59	Oakdale Rd	Snelling Rd	6,605	83		17	1	12	65	100	

**Appendix F, Report C-2**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
27	State Route 140	Interstate 5	SR 33 (West Gustine)	10,525	83		17	3	10	65	100	
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	12,399	83		17	3	12	65	100	
29	State Route 140	SR 33 (East Gustine)	SR 165	7,208	83		17	3	9	65	100	
30	State Route 140	SR 165	X st	11,937	83		17	3	8	65	100	
31	State Route 140	SR 99	Motel Dr	30,341	83		17	1	5	65	100	
32	State Route 140	Motel Dr	Santa Fe Dr	24,966	83		17	1	5	65	100	
33	State Route 140	Santa Fe Dr	Plainsburg Rd	28,286	83		17	1	3	65	100	
34	State Route 140	Planada	Mariposa County Line	10,169	83		17	1	10	65	100	
35	State Route 152	Santa Clara County Line	SR 33	69,086	83		17	4	13	65	100	
36	State Route 152	SR 33	Interstate 5	76,481	83		17	4	13	65	100	
37	State Route 152	Interstate 5	Ortigalita Rd	69,024	83		17	3	7	65	100	
38	State Route 152	Ortigalita Rd	SR 165	32,732	83		17	3	7	65	100	
39	State Route 152	SR 165	Ward Rd	31,353	83		17	3	7	65	100	
40	State Route 152	Ward Rd	SR 33	33,617	83		17	4	12	65	100	
41	State Route 152	SR 33	SR 59	22,559	83		17	4	12	65	100	
42	State Route 152	SR 59	Madera County Line	22,999	83		17	1	12	65	100	
43	State Route 165	Interstate 5	Pioneer Rd	23,105	83		17	1	9	65	100	
44	State Route 165	Pioneer Rd	SR 152	27,440	83		17	1	7	65	100	
45	State Route 165	SR 152	Overland Ave	23,260	83		17	1	8	65	100	
46	State Route 165	Overland Ave	Henry Miller Ave	21,443	83		17	1	8	65	100	
47	State Route 165	Henry Miller Ave	SR 140	9,838	83		17	1	7	65	100	
48	State Route 165	SR 140	Westside Blvd	16,386	83		17	1	9	65	100	
49	State Route 165	Westside Blvd	Williams Ave	19,072	83		17	1	9	65	100	
50	State Route 165	Williams Ave	Bloss Ave	23,578	83		17	1	9	65	100	
51	State Route 165	Bloss Ave	American Ave	27,231	83		17	1	9	65	100	
52	Arboleda Dr	SR 99	Yosemite Ave	3,750	83		17	2	2	45	100	

Appendix F, Report C-3

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
53	August Ave	Stanislaus County Line	SR 165	11,950	83		17	2	2	45	100	
54	August Ave	SR 165	Merced Ave	14,900	83		17	2	2	45	100	
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	8,550	83		17	2	2	45	100	
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	6,650	83		17	2	2	45	100	
57	Bloss Ave	Hilmar Bypass	Collier Rd	15,250	83		17	2	2	45	100	
58	Bradbury Road	Stanislaus County Line	SR 165	4,350	83		17	2	2	45	100	
59	Bradbury Road	SR 165	Hilmar Bypass	11,400	83		17	2	2	45	100	
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	14,500	83		17	2	2	45	100	
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	8,550	83		17	2	2	45	100	
62	Central Ave	Liberty Ave	Walnut Ave	500	83		17	2	2	45	100	
63	Childs Ave	Tower Rd	Planada SUDP (W)	9,400	83		17	2	2	45	100	
64	Collier Ave	Bloss Ave	SR 99	15,250	83		17	2	2	45	100	
65	El Captain Wy	Palm Ave	Santa Fe Dr	11,000	83		17	2	2	45	100	
66	G St	Merced P/A (N)	Snelling Rd	2,400	83		17	2	2	45	100	
67	Golden State Blvd	SR 99	Stanislaus County Line	34,950	83		17	2	2	45	100	
68	Griffith Ave	Bloss Ave	Golden State Blvd	2,150	83		17	2	2	45	100	
69	Gurr Rd	Sandy Mush Rd	SR 140	6,450	83		17	2	2	45	100	
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	11,900	83		17	2	2	45	100	
71	Henry Miller Ave	Ingomar Grade Road	SR 165	7,200	83		17	2	2	45	100	
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	26,400	83		17	2	2	45	100	
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	13,150	83		17	2	2	45	100	
74	La Grange Rd	SR 59	Stanislaus County Line	2,050	83		17	2	2	45	100	
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	7,700	83		17	2	2	45	100	
76	Liberty Ave	Campbell Ave	Central Ave	2,400	83		17	2	2	45	100	
77	Lincoln Blvd	SR 140	Livingston C/L	2,850	83		17	2	2	45	100	
78	Livingston-Cassey Wy	Olive Ave	Cressey Wy	5,000	83		17	2	2	45	100	

**Appendix F, Report C-4**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Data Input Sheet**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)
		From	To									
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	2,950	83		17	2	2	45	100	
80	Mintum Rd	Madera County Line	Le Grand Rd	5,050	83		17	2	2	45	100	
81	Olive Ave	Campus Pkwy	Arboleda Dr	9,250	83		17	2	2	45	100	
82	Peach Ave	Dwight Wy	Sultana Dr	950	83		17	2	2	45	100	
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	17,350	83		17	2	2	45	100	
84	Plainsburg Rd	SR 99	Gerard Ave	1,800	83		17	2	2	45	100	
85	Sandy Mush Rd	Nickel Rd	SR 99	1,850	83		17	2	2	45	100	
86	Santa Fe Ave	Madera County Line	Fresno Rd	4,050	83		17	2	2	45	100	
87	Santa Fe Ave	Fresno Rd	Miles Creek	5,950	83		17	2	2	45	100	
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	28,850	83		17	2	2	45	100	
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	19,500	83		17	2	2	45	100	
90	Santa Fe Dr	Olive Ave	Bradbury Road	14,250	83		17	2	2	45	100	
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	8,400	83		17	2	2	45	100	
92	Shaffer Rd	Olive Ave	Oakdale Rd	4,900	83		17	2	2	45	100	
93	Snelling Rd	G St	SR 59	2,750	83		17	2	2	45	100	
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	300	83		17	2	2	45	100	
95	Sultana Dr	SR 140	Westside Blvd	400	83		17	2	2	45	100	
96	Turner Island Rd	SR 152	Sand Slough Rd	1,700	83		17	2	2	45	100	
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	10,200	83		17	2	2	45	100	
98	Volta Rd	Pioneer Rd	SR 152	18,200	83		17	2	2	45	100	
99	Volta Rd	SR 152	Ingomar Grade	10,700	83		17	2	2	45	100	
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	6,050	83		17	2	2	45	100	
101	Walnut Ave	Sultana Dr	Vine Ave	6,050	83		17	2	2	45	100	
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	550	83		17	2	2	45	100	
103	Westside Blvd	SR 165	SR 99	6,050	83		17	2	2	45	100	
104	Yosemite Ave	UC Community SUDP	Arboleda Dr	5,100	83		17	2	2	45	100	

**Appendix F, Report C-5**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
1	Interstate 5	Fresno County Line	SR 165	74.0	69.4	78.7	80
2	Interstate 5	SR 165	SR 152	74.1	69.5	78.8	80
3	Interstate 5	SR 152	SR 33	73.7	69.1	78.5	80
4	Interstate 5	SR 33	SR 140	74.6	68.0	78.7	80
5	Interstate 5	SR 140	Stanislaus County Line	74.8	68.2	78.9	81
6	State Route 99	Madera County Line	Childs Ave	73.4	66.9	78.0	80
7	State Route 99	Childs Ave	SR 140	72.8	66.3	77.4	79
8	State Route 99	SR 140	SR 59 (N)	74.0	67.2	76.7	79
9	State Route 99	SR 59 (N)	Buhach Rd	74.0	67.1	76.6	79
10	State Route 99	Buhach Rd	Atwater (East Atwater)	74.5	67.6	77.1	79
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	73.8	66.9	76.4	79
12	State Route 99	Atwater (West Atwater)	Collier Rd	74.9	68.0	77.5	80
13	State Route 99	Collier Rd	Golden State Blvd	75.7	68.8	78.3	80
14	State Route 99	Golden State Blvd	Stanislaus County Line	75.0	69.4	78.9	81
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	64.5	57.4	64.8	68
16	State Route 33	Dos Palos (Blossom Street)	SR 152	68.0	60.8	68.2	71
17	State Route 33	SR 152	Henry Miller Ave	73.5	67.1	78.5	80
18	State Route 33	Henry Miller Ave	Interstate 5	73.3	67.0	78.4	80
19	State Route 33	Interstate 5	Gustine (SR 140 S)	73.3	66.4	75.9	78
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	67.3	58.9	68.4	71
21	State Route 59	Madera County Line	Mission Ave	66.7	60.4	65.3	70
22	State Route 59	Mission Ave	Childs Ave	69.0	62.7	67.6	72
23	State Route 59	Childs Ave	SR 99	69.0	62.7	67.6	72
24	State Route 59	16th St	Santa Fe Dr	71.7	58.2	69.4	74
25	State Route 59	Santa Fe Dr	Oakdale Rd	67.2	53.6	64.9	69
26	State Route 59	Oakdale Rd	Snelling Rd	64.1	50.9	65.1	68

**Appendix F, Report C-6**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
27	State Route 140	Interstate 5	SR 33 (West Gustine)	66.1	57.7	66.4	70
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	66.8	58.4	67.9	71
29	State Route 140	SR 33 (East Gustine)	SR 165	64.6	56.0	64.3	68
30	State Route 140	SR 165	X st	66.8	58.2	65.9	70
31	State Route 140	SR 99	Motel Dr	71.1	57.5	68.0	73
32	State Route 140	Motel Dr	Santa Fe Dr	70.2	56.6	67.1	72
33	State Route 140	Santa Fe Dr	Plainsburg Rd	70.9	57.2	65.4	72
34	State Route 140	Planada	Mariposa County Line	66.1	52.7	66.2	69
35	State Route 152	Santa Clara County Line	SR 33	74.1	67.1	75.7	78
36	State Route 152	SR 33	Interstate 5	74.6	67.5	76.1	79
37	State Route 152	Interstate 5	Ortigalita Rd	74.5	65.8	73.0	77
38	State Route 152	Ortigalita Rd	SR 165	71.2	62.6	69.7	74
39	State Route 152	SR 165	Ward Rd	71.0	62.4	69.6	74
40	State Route 152	Ward Rd	SR 33	71.0	64.0	72.2	75
41	State Route 152	SR 33	SR 59	69.3	62.2	70.5	73
42	State Route 152	SR 59	Madera County Line	69.5	56.3	70.6	73
43	State Route 165	Interstate 5	Pioneer Rd	69.7	56.3	69.3	73
44	State Route 165	Pioneer Rd	SR 152	70.6	57.1	69.0	73
45	State Route 165	SR 152	Overland Ave	69.8	56.3	68.8	72
46	State Route 165	Overland Ave	Henry Miller Ave	69.4	56.0	68.5	72
47	State Route 165	Henry Miller Ave	SR 140	66.1	52.6	64.5	69
48	State Route 165	SR 140	Westside Blvd	68.2	54.8	67.8	71
49	State Route 165	Westside Blvd	Williams Ave	68.9	55.5	68.5	72
50	State Route 165	Williams Ave	Bloss Ave	69.8	56.4	69.4	73
51	State Route 165	Bloss Ave	American Ave	70.4	57.0	70.0	73
52	Arboleda Dr	SR 99	Yosemite Ave	57.5	48.9	53.4	59



**Appendix F, Report C-7**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
53	August Ave	Stanislaus County Line	SR 165	62.5	54.0	58.5	64
53	August Ave	Stanislaus County Line	SR 165	63.5	54.9	59.4	65
54	August Ave	SR 165	Merced Ave	61.1	52.5	57.0	63
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	60.0	51.4	55.9	62
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	63.6	55.0	59.5	65
57	Bloss Ave	Hilmar Bypass	Collier Rd	58.1	49.6	54.1	60
58	Bradbury Road	Stanislaus County Line	SR 165	62.3	53.8	58.3	64
59	Bradbury Road	SR 165	Hilmar Bypass	63.4	54.8	59.3	65
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	61.1	52.5	57.0	63
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	48.7	40.2	44.7	51
62	Central Ave	Liberty Ave	Walnut Ave	61.5	52.9	57.4	63
63	Childs Ave	Tower Rd	Planada SUDP (W)	63.6	55.0	59.5	65
64	Collier Ave	Bloss Ave	SR 99	62.2	53.6	58.1	64
65	El Captain Wy	Palm Ave	Santa Fe Dr	55.6	47.0	51.5	57
66	G St	Merced P/A (N)	Snelling Rd	67.2	58.6	63.1	69
67	Golden State Blvd	SR 99	Stanislaus County Line	55.1	46.5	51.0	57
68	Griffith Ave	Bloss Ave	Golden State Blvd	59.9	51.3	55.8	62
69	Gurr Rd	Sandy Mush Rd	SR 140	62.5	53.9	58.4	64
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	60.3	51.8	56.3	62
71	Henry Miller Ave	Ingomar Grade Road	SR 165	66.0	57.4	61.9	68
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	62.9	54.4	58.9	65
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	54.9	46.3	50.8	57
74	La Grange Rd	SR 59	Stanislaus County Line	60.6	52.1	56.6	62
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	55.6	47.0	51.5	57
76	Lincoln Blvd	SR 140	Livingston C/L	56.3	47.7	52.2	58
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	58.7	50.2	54.7	61

**Appendix F, Report C-8**

**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**

**Predicted Levels**

Project #: 2011-030 Merced County GP EIR

Description: 2030 Buildout

Ldn/CNEL: Ldn

Hard/Soft: Soft

Segment	Roadway Name	Segment Description		Autos	Medium Heavy		Total
		From	To		Trucks	Trucks	
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	56.5	47.9	52.4	58
80	Mintum Rd	Madera County Line	Le Grand Rd	58.8	50.2	54.7	61
81	Olive Ave	Campus Pkwy	Arboleda Dr	61.4	52.9	57.4	63
82	Peach Ave	Dwight Wy	Sultana Dr	51.5	43.0	47.5	53
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	64.1	55.6	60.1	66
84	Plainsburg Rd	SR 99	Gerard Ave	54.3	45.7	50.2	56
85	Sandy Mush Rd	Nickel Rd	SR 99	54.4	45.9	50.4	56
86	Santa Fe Ave	Madera County Line	Fresno Rd	57.8	49.3	53.8	60
87	Santa Fe Ave	Fresno Rd	Miles Creek	59.5	50.9	55.4	61
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	66.4	57.8	62.3	68
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	64.7	56.1	60.6	67
90	Santa Fe Dr	Olive Ave	Bradbury Road	63.3	54.7	59.2	65
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	61.0	52.4	56.9	63
92	Shaffer Rd	Olive Ave	Oakdale Rd	58.7	50.1	54.6	61
93	Snelling Rd	G St	SR 59	56.1	47.6	52.1	58
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	46.5	38.0	42.5	48
95	Sultana Dr	SR 140	Westside Blvd	47.8	39.2	43.7	50
96	Turner Island Rd	SR 152	Sand Slough Rd	54.1	45.5	50.0	56
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	61.8	53.3	57.8	64
98	Volta Rd	Pioneer Rd	SR 152	64.4	55.8	60.3	66
99	Volta Rd	SR 152	Ingomar Grade	62.0	53.5	58.0	64
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	59.6	51.0	55.5	61
101	Walnut Ave	Sultana Dr	Vine Ave	59.6	51.0	55.5	61
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	49.2	40.6	45.1	51
103	Westside Blvd	SR 165	SR 99	59.6	51.0	55.5	61
104	Yosemite Ave	UC Community St	Arboleda Dr	58.8	50.3	54.8	61

**Appendix F, Report C-9**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030 Buildout  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
1	Interstate 5	Fresno County Line	SR 165	227	489	1053	2268	4886
2	Interstate 5	SR 165	SR 152	230	495	1067	2300	4955
3	Interstate 5	SR 152	SR 33	218	470	1013	2182	4701
4	Interstate 5	SR 33	SR 140	228	491	1057	2278	4908
5	Interstate 5	SR 140	Stanislaus County Line	237	510	1098	2366	5097
6	State Route 99	Madera County Line	Childs Ave	201	432	932	2007	4324
7	State Route 99	Childs Ave	SR 140	183	394	849	1830	3942
8	State Route 99	SR 140	SR 59 (N)	181	390	839	1809	3896
9	State Route 99	SR 59 (N)	Buhach Rd	179	386	832	1792	3860
10	State Route 99	Buhach Rd	Atwater (East Atwater)	194	417	899	1937	4174
11	State Route 99	Atwater (East Atwater)	Atwater (West Atwater)	174	374	806	1737	3742
12	State Route 99	Atwater (West Atwater)	Collier Rd	205	442	953	2053	4422
13	State Route 99	Collier Rd	Golden State Blvd	232	500	1077	2320	4999
14	State Route 99	Golden State Blvd	Stanislaus County Line	240	516	1113	2397	5165
15	State Route 33	Fresno County Line	Dos Palos (Blossom Street)	35	74	160	345	744
16	State Route 33	Dos Palos (Blossom Street)	SR 152	58	126	271	583	1257
17	State Route 33	SR 152	Henry Miller Ave	214	460	991	2135	4600
18	State Route 33	Henry Miller Ave	Interstate 5	210	452	973	2097	4518
19	State Route 33	Interstate 5	Gustine (SR 140 S)	161	346	745	1606	3460
20	State Route 33	Gustine (SR 140 S)	Stanislaus County Line	55	119	256	552	1190
21	State Route 59	Madera County Line	Mission Ave	44	94	203	436	940
22	State Route 59	Mission Ave	Childs Ave	62	134	288	620	1337
23	State Route 59	Childs Ave	SR 99	63	135	291	626	1349
24	State Route 59	16th St	Santa Fe Dr	84	180	388	837	1803
25	State Route 59	Santa Fe Dr	Oakdale Rd	42	90	194	418	901
26	State Route 59	Oakdale Rd	Snelling Rd	33	71	153	329	709

**Appendix F, Report C-10**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030 Buildout  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
27	State Route 140	Interstate 5	SR 33 (West Gustine)	43	94	201	434	935
28	State Route 140	SR 33 (West Gustine)	SR 33 (East Gustine)	51	110	237	511	1102
29	State Route 140	SR 33 (East Gustine)	SR 165	33	71	152	328	706
30	State Route 140	SR 165	X st	44	96	206	445	958
31	State Route 140	SR 99	Motel Dr	73	157	338	728	1569
32	State Route 140	Motel Dr	Santa Fe Dr	64	138	297	639	1377
33	State Route 140	Santa Fe Dr	Plainsburg Rd	64	138	298	641	1382
34	State Route 140	Planada	Mariposa County Line	41	89	193	415	894
35	State Route 152	Santa Clara County Line	SR 33	166	359	773	1665	3586
36	State Route 152	SR 33	Interstate 5	178	384	827	1781	3838
37	State Route 152	Interstate 5	Ortigalita Rd	139	299	644	1388	2990
38	State Route 152	Ortigalita Rd	SR 165	84	182	392	844	1818
39	State Route 152	SR 165	Ward Rd	82	177	381	820	1767
40	State Route 152	Ward Rd	SR 33	100	216	466	1004	2163
41	State Route 152	SR 33	SR 59	77	166	357	770	1658
42	State Route 152	SR 59	Madera County Line	76	163	351	756	1629
43	State Route 165	Interstate 5	Pioneer Rd	70	150	323	696	1499
44	State Route 165	Pioneer Rd	SR 152	73	158	340	731	1576
45	State Route 165	SR 152	Overland Ave	68	146	314	677	1459
46	State Route 165	Overland Ave	Henry Miller Ave	64	138	298	641	1382
47	State Route 165	Henry Miller Ave	SR 140	37	80	171	369	795
48	State Route 165	SR 140	Westside Blvd	55	119	257	553	1192
49	State Route 165	Westside Blvd	Williams Ave	61	132	284	612	1319
50	State Route 165	Williams Ave	Bloss Ave	71	152	327	705	1519
51	State Route 165	Bloss Ave	American Ave	78	167	360	776	1673
52	Arboleda Dr	SR 99	Yosemite Ave	9	19	42	90	195

**Appendix F, Report C-11**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030 Buildout  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
53	August Ave	Stanislaus County Line	SR 165	20	42	91	196	422
53	August Ave	Stanislaus County Line	SR 165	23	49	105	227	489
54	August Ave	SR 165	Merced Ave	16	34	73	157	338
55	Ballico Ave	Bradbury Rd	Santa Fe Dr	13	29	62	133	286
56	Bloss Ave	Hilmar SUDP (E)	Hilmar Bypass	23	50	107	230	497
57	Bloss Ave	Hilmar Bypass	Collier Rd	10	22	46	100	215
58	Bradbury Road	Stanislaus County Line	SR 165	19	41	88	190	409
59	Bradbury Road	SR 165	Hilmar Bypass	22	48	103	223	480
60	Bradbury Road	Hilmar Bypass	Delhi SUDP (W)	16	34	73	157	338
61	Bradbury Road	Delhi SUDP (E)	Ballico Ave	2	5	11	24	51
62	Central Ave	Liberty Ave	Walnut Ave	17	36	77	167	360
63	Childs Ave	Tower Rd	Planada SUDP (W)	23	50	107	230	497
64	Collier Ave	Bloss Ave	SR 99	19	40	86	185	399
65	El Captain Wy	Palm Ave	Santa Fe Dr	7	14	31	67	145
66	G St	Merced P/A (N)	Snelling Rd	40	86	186	401	863
67	Golden State Blvd	SR 99	Stanislaus County Line	6	13	29	62	134
68	Griffith Ave	Bloss Ave	Golden State Blvd	13	28	60	130	280
69	Gurr Rd	Sandy Mush Rd	SR 140	20	42	91	195	421
70	Henry Miller Ave	Santa Nella SUDP	Ingomar Grade Road	14	30	65	140	301
71	Henry Miller Ave	Ingomar Grade Road	SR 165	33	72	154	332	716
72	Ingomar Grade	Los Banos P/A (N)	Los Banos Bypass	21	45	97	209	450
73	Ingomar Grade	Los Banos Bypass	Henry Miller Ave	6	13	28	60	130
74	La Grange Rd	SR 59	Stanislaus County Line	15	31	68	146	315
75	Le Grand Rd	SR 99	Le Grand SUDP (W)	7	14	31	67	145
76	Lincoln Blvd	SR 140	Livingston C/L	8	16	35	75	162
77	Livingston-Cassey Wy	Olive Ave	Cressey Wy	11	24	51	110	236

**Appendix F, Report C-12**  
**FHWA-RD-77-108 Highway Traffic Noise Prediction Model**  
**Noise Contour Output**

Project #: 2011-030 Merced County GP EIR  
 Description: 2030 Buildout  
 Ldn/CNEL: Ldn  
 Hard/Soft: Soft

Segment	Roadway Name	Segment Description		----- Distances to Traffic Noise Contours -----				
		From	To	75	70	65	60	55
79	Merced Ave	Bloss Ave	Delhi SUDP (S)	8	17	36	77	166
80	Mintum Rd	Madera County Line	Le Grand Rd	11	24	51	110	238
81	Olive Ave	Campus Pkwy	Arboleda Dr	17	36	77	165	356
82	Peach Ave	Dwight Wy	Sultana Dr	4	8	17	36	78
83	Pioneer Rd	Volta Rd	Los Banos P/S (W)	25	54	117	251	541
84	Plainsburg Rd	SR 99	Gerard Ave	6	12	26	55	119
85	Sandy Mush Rd	Nickel Rd	SR 99	6	12	26	56	122
86	Santa Fe Ave	Madera County Line	Fresno Rd	10	21	44	95	205
87	Santa Fe Ave	Fresno Rd	Miles Creek	12	27	57	123	265
88	Santa Fe Dr	Beachwood Dr	Franklin Rd	35	76	164	353	759
89	Santa Fe Dr	Shaffer Rd	Chestnut Ln	27	58	126	272	585
90	Santa Fe Dr	Olive Ave	Bradbury Road	22	47	102	220	475
91	Santa Fe Dr	Bradbury Road	Stanislaus County Line	15	33	72	155	334
92	Shaffer Rd	Olive Ave	Oakdale Rd	11	23	50	108	233
93	Snelling Rd	G St	SR 59	7	16	34	74	158
94	So Bear Creek Dr	Merced P/A (E)	Arboleda Dr	2	4	8	17	36
95	Sultana Dr	SR 140	Westside Blvd	2	4	9	20	44
96	Turner Island Rd	SR 152	Sand Slough Rd	5	12	25	53	115
97	Vincent Rd	Bradbury Rd	Stanislaus County Line	18	38	82	176	380
98	Volta Rd	Pioneer Rd	SR 152	26	56	120	259	559
99	Volta Rd	SR 152	Ingomar Grade	18	39	84	182	392
100	Walnut Ave	Livingston C/L (E)	Sultana Dr	12	27	58	124	268
101	Walnut Ave	Sultana Dr	Vine Ave	12	27	58	124	268
102	Walnut Ave	Gertrude Lateral	Shaffer Rd	3	5	12	25	54
103	Westside Blvd	SR 165	SR 99	12	27	58	124	268
104	Yosemite Ave	UC Community St	Arboleda Dr	11	24	52	111	239