

APPENDIX D

Noise Modeling

**Long-Term 24 Hour Continuous Noise Monitoring
Model Input Sheet**



Project: 60491507 - Kammerer/Highway99 SOI EIR

Date: Existi **Wednesday, March 02, 2016**

Thursday, March 03, 2016

Site: 10686 W Stockton BlvdElk Grove, CA 95757

Hour	Leq	Lmax	L50	L90
10:00	63.8	75.1	63.0	59.4
11:00	63.5	74.1	62.5	58.9
12:00	63.6	75.3	62.8	59.1
13:00	63.9	77.8	62.9	59.3
14:00	63.5	74.0	62.7	59.3
15:00	63.4	77.6	62.4	58.8
16:00	63.5	75.2	62.7	59.6
17:00	63.7	81.8	62.4	59.3
18:00	62.3	73.8	61.7	58.1
19:00	61.7	74.0	60.6	56.4
20:00	61.1	77.3	59.9	55.0
21:00	61.0	76.2	59.7	54.0
22:00	59.7	76.0	58.3	52.3
23:00	59.6	79.3	57.4	51.2
0:00	59.2	69.7	57.4	49.5
1:00	61.7	74.1	56.9	48.5
2:00	60.2	74.0	55.0	45.1
3:00	57.9	69.7	55.2	47.0
4:00	60.9	74.9	59.7	53.2
5:00	63.0	76.6	62.3	58.1
6:00	64.8	78.8	64.3	61.2
7:00	65.2	77.0	64.6	61.6
8:00	64.9	75.4	64.4	61.4
9:00	64.9	73.7	64.4	61.3

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Averages			
Leq	Lmax	L50	L90
63.5	75.9	62.4	58.8
61.3	74.8	58.5	51.8

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Uppermost-Level			
Leq	Lmax	L50	L90
65.2	81.8	64.6	61.6
64.8	79.3	64.3	61.2

Percentage of Energy	
Daytime	74%
Nighttime	26%

Calculated L _{dn} , dBA
68.1

**Long-Term 24 Hour Continuous Noise Monitoring
Model Input Sheet**



Project: 60491507 - Kammerer/Highway99 SOI EIR

Date: Existi **Wednesday, March 02, 2016** **Thursday, March 03, 2016**

Site: Southern Boundary by northeast of Solar Panels

Hour	Leq	Lmax	L50	L90
12:00	40.8	58.4	36.7	35.2
13:00	47.8	69.3	37.0	34.3
14:00	42.7	65.0	35.8	34.1
15:00	44.6	72.4	35.8	33.6
16:00	43.7	63.3	39.0	35.4
17:00	45.8	66.2	43.1	39.9
18:00	38.9	49.1	38.4	36.5
19:00	37.6	44.1	37.3	35.5
20:00	41.2	60.2	37.8	35.4
21:00	37.8	47.1	36.9	34.3
22:00	36.4	47.0	35.1	32.1
23:00	33.1	41.3	32.4	30.4
0:00	36.7	53.8	32.8	30.6
1:00	39.2	49.1	37.8	33.2
2:00	42.9	52.6	37.3	33.5
3:00	36.6	50.7	35.2	32.0
4:00	38.3	47.9	36.9	33.1
5:00	38.6	48.7	37.1	34.2
6:00	42.0	53.4	40.2	36.3
7:00	45.6	65.7	41.7	39.3
8:00	46.8	74.1	41.1	38.4
9:00	46.8	71.1	37.9	35.5
10:00	44.5	62.3	37.1	34.9
11:00	46.0	71.7	37.7	34.9

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Averages			
Leq	Lmax	L50	L90
44.4	62.7	38.2	35.8
39.1	49.4	36.1	32.8

Daytime (7 a.m. - 10 p.m.)
Nighttime (10 p.m. - 7 a.m.)

Uppermost-Level			
Leq	Lmax	L50	L90
47.8	74.1	43.1	39.9
42.9	53.8	40.2	36.3

Percentage of Energy	
Daytime	85%
Nighttime	15%

Calculated L_{dn}, dBA

46.8

**Long-Term 24 Hour Continuous Noise Monitoring
Model Input Sheet**



Project: 60491507 - Kammerer/Highway99 SOI EIR

Date: Existi **Wednesday, March 02, 2016** **Thursday, March 03, 2016**

Site: Northern Boundary along Kammerer Road by Power Tower

Hour	Leq	Lmax	L50	L90
12:00	43.2	63.6	40.1	35.4
13:00	48.8	67.6	42.2	36.2
14:00	43.9	63.6	41.2	37.1
15:00	46.4	61.9	43.7	38.1
16:00	51.9	68.0	50.6	44.7
17:00	53.7	65.0	52.7	47.6
18:00	52.6	59.5	52.1	46.7
19:00	51.0	64.8	49.9	43.9
20:00	51.0	63.3	49.8	43.0
21:00	50.0	63.5	48.2	39.3
22:00	47.2	57.7	44.2	35.3
23:00	44.1	57.0	39.1	31.4
0:00	44.9	68.0	40.5	34.0
1:00	47.0	64.9	44.1	40.1
2:00	49.1	60.8	43.0	36.9
3:00	43.7	60.5	39.8	35.7
4:00	47.1	63.2	43.7	38.7
5:00	53.3	65.2	51.3	42.4
6:00	54.7	66.6	53.0	48.4
7:00	54.7	68.9	53.3	49.9
8:00	53.7	74.9	50.5	45.5
9:00	54.1	79.3	45.5	41.2
10:00	46.3	62.0	43.5	38.6
11:00	45.9	67.6	42.2	36.9

		Averages			
		Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)		51.2	66.2	47.0	41.6
Nighttime (10 p.m. - 7 a.m.)		49.6	62.7	44.3	38.1

		Uppermost-Level			
		Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)		54.7	79.3	53.3	49.9
Nighttime (10 p.m. - 7 a.m.)		54.7	68.0	53.0	48.4

		Percentage of Energy	
Daytime		70%	
Nighttime		30%	

Calculated L _{dn} , dBA	
56.3	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Leq

K Factor : NA
Traffic Desc. (Peak or ADT) : Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	2550	45	100	93	2	5	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	2630	45	100	93	2	5	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	3320	45	100	93	2	5	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	4360	45	100	93	2	5	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	5520	45	100	93	2	5	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	2700	45	100	93	2	5	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	2600	45	100	93	2	5	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	1710	45	100	93	2	5	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	1810	45	100	93	2	5	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	2240	45	100	93	2	5	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	1610	45	100	93	2	5	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	477	35	100	93	2	5	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	720	45	100	93	2	5	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	100	45	100	93	2	5	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	468	45	100	93	2	5	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	90	35	100	93	2	5	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Metric (Leq, Ldn, CNEL) : Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	68.2	59.7	68.2	71.5	142	448	1416	4477	14157
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	68.3	59.9	68.4	71.6	146	462	1460	4617	14601
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	69.3	60.9	69.4	72.7	184	583	1843	5829	18432
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	70.5	62.1	70.6	73.8	242	765	2421	7654	24206
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	71.5	63.1	71.6	74.9	306	969	3065	9691	30646
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	68.4	60.0	68.5	71.8	150	474	1499	4740	14990
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	68.3	59.8	68.3	71.6	144	456	1443	4565	14435
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	66.4	58.0	66.5	69.8	95	300	949	3002	9493
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	66.7	58.3	66.7	70.0	100	318	1005	3178	10049
10	Grant Line Road	E Stockton Boulev	Waterman Road	67.6	59.2	67.7	70.9	124	393	1244	3933	12436
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	66.2	57.8	66.2	69.5	89	283	894	2827	8938
12	Bilby Road	Franklin Boulevarc	Bruceville Road	57.8	50.8	59.9	62.3	17	54	170	538	1702
13	Kammerer Road	Bruceville Road	Promenade Parkw	62.7	54.3	62.7	66.0	40	126	400	1264	3997
14	Eschinger Road	Bruceville Road	State Route 99	54.1	45.7	54.2	57.4	6	18	56	176	555
15	Dillard Road	State Route 99	Wilton Road	60.8	52.4	60.9	64.1	26	82	260	821	2596
16	Lambert Road	Interstate 5	Bruceville Road	50.5	43.5	52.7	55.1	3	10	32	101	320

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Leq

K Factor : NA
Traffic Desc. (Peak or ADT) : Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	1970	35	100	93	2	5	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	2240	35	100	93	2	5	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	370	35	100	93	2	5	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	210	35	100	93	2	5	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	150	35	100	93	2	5	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	4350	65	100	93	2	5	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	4900	65	100	93	2	5	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	6200	65	100	93	2	5	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	8700	65	100	93	2	5	85	0	15	
10	State Route 99	Mingo Road	Arno Road	6500	65	100	93	2	5	85	0	15	
11	State Route 99	Arno Road	Dillard Road	5700	65	100	93	2	5	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	5600	65	100	93	2	5	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	5800	65	100	93	2	5	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	6100	65	100	93	2	5	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	10000	65	100	93	2	5	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	13000	65	100	93	2	5	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Metric (Leq, Ldn, CNEL) : Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	63.9	56.9	66.1	68.5	70	222	703	2222	7027
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	64.5	57.5	66.7	69.0	80	253	799	2527	7990
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	56.6	49.7	58.8	61.2	13	42	132	417	1320
4	Bruceville Road	Kammerer Road	Eschinger Road	54.2	47.2	56.4	58.7	7	24	75	237	749
5	Bruceville Road	Eschinger Road	Lambert Road	52.7	45.7	54.9	57.3	5	17	54	169	535
6	Interstate 5	Twin Cities Road	Hood Franklin Road	75.1	64.6	72.0	77.1	511	1615	5106	16148	51063
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	75.6	65.1	72.5	77.6	575	1819	5752	18189	57520
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	76.6	66.1	73.6	78.6	728	2302	7278	23015	72780
9	Interstate 5	Laguna Boulevard	North of Laguna B	78.1	67.6	75.0	80.1	1021	3230	10213	32295	102127
10	State Route 99	Mingo Road	Arno Road	76.8	66.3	73.8	78.8	763	2413	7630	24129	76301
11	State Route 99	Arno Road	Dillard Road	76.3	65.7	73.2	78.3	669	2116	6691	21159	66911
12	State Route 99	Dillard Road	Eschinger Road	76.2	65.7	73.1	78.2	657	2079	6574	20788	65737
13	State Route 99	Eschinger Road	Grant Line Road	76.3	65.8	73.3	78.3	681	2153	6808	21530	68084
14	State Route 99	Grant Line Road	Elk Grove Boulevard	76.6	66.0	73.5	78.5	716	2264	7161	22644	71606
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	78.7	68.2	75.6	80.7	1174	3712	11739	37121	117387
16	State Route 99	Laguna Boulevard	North of Laguna B	79.8	69.3	76.8	81.8	1526	4826	15260	48257	152603

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Construction Traffic
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Leq
K Factor : NA
Traffic Desc. (Peak or ADT) : Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	2615	45	100	93	2	5	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	2695	45	100	93	2	5	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	3385	45	100	93	2	5	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	4425	45	100	93	2	5	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	5585	45	100	93	2	5	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	2765	45	100	93	2	5	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	2665	45	100	93	2	5	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	1775	45	100	93	2	5	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	1875	45	100	93	2	5	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	2305	45	100	93	2	5	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	1675	45	100	93	2	5	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	542	35	100	93	2	5	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	785	45	100	93	2	5	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	165	45	100	93	2	5	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	533	45	100	93	2	5	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	155	35	100	93	2	5	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Construction Traffic
Metric (Leq, Ldn, CNEL) : Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	68.3	59.9	68.3	71.6	145	459	1452	4591	14518
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	68.4	60.0	68.5	71.7	150	473	1496	4731	14962
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	69.4	61.0	69.5	72.7	188	594	1879	5943	18793
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	70.6	62.1	70.6	73.9	246	777	2457	7769	24566
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	71.6	63.2	71.6	74.9	310	981	3101	9805	31006
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	68.5	60.1	68.6	71.9	154	485	1535	4854	15351
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	68.4	59.9	68.4	71.7	148	468	1480	4679	14795
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	66.6	58.2	66.7	69.9	99	312	985	3116	9854
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	66.8	58.4	66.9	70.2	104	329	1041	3292	10410
10	Grant Line Road	E Stockton Boulev	Waterman Road	67.7	59.3	67.8	71.1	128	405	1280	4047	12797
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	66.3	57.9	66.4	69.7	93	294	930	2941	9299
12	Bilby Road	Franklin Boulevarc	Bruceville Road	58.3	51.3	60.5	62.9	19	61	193	612	1934
13	Kammerer Road	Bruceville Road	Promenade Parkw	63.1	54.6	63.1	66.4	44	138	436	1378	4358
14	Eschinger Road	Bruceville Road	State Route 99	56.3	47.9	56.3	59.6	9	29	92	290	916
15	Dillard Road	State Route 99	Wilton Road	61.4	52.9	61.4	64.7	30	94	296	935	2957
16	Lambert Road	Interstate 5	Bruceville Road	52.9	45.9	55.1	57.4	6	17	55	175	552

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Construction Traffic
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Leq
K Factor : NA
Traffic Desc. (Peak or ADT) : Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	2035	35	100	93	2	5	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	2305	35	100	93	2	5	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	435	35	100	93	2	5	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	275	35	100	93	2	5	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	215	35	100	93	2	5	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	4415	65	100	93	2	5	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	4965	65	100	93	2	5	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	6265	65	100	93	2	5	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	8765	65	100	93	2	5	85	0	15	
10	State Route 99	Mingo Road	Arno Road	6565	65	100	93	2	5	85	0	15	
11	State Route 99	Arno Road	Dillard Road	5765	65	100	93	2	5	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	5665	65	100	93	2	5	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	5865	65	100	93	2	5	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	6165	65	100	93	2	5	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	10065	65	100	93	2	5	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	13065	65	100	93	2	5	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Construction Traffic
Metric (Leq, Ldn, CNEL) : Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	64.1	57.1	66.2	68.6	73	230	726	2296	7259
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	64.6	57.6	66.8	69.1	82	260	822	2600	8222
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	57.3	50.4	59.5	61.9	16	49	155	491	1552
4	Bruceville Road	Kammerer Road	Eschinger Road	55.4	48.4	57.5	59.9	10	31	98	310	981
5	Bruceville Road	Eschinger Road	Lambert Road	54.3	47.3	56.5	58.8	8	24	77	243	767
6	Interstate 5	Twin Cities Road	Hood Franklin Road	75.2	64.6	72.1	77.1	518	1639	5183	16389	51826
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	75.7	65.1	72.6	77.7	583	1843	5828	18431	58283
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	76.7	66.1	73.6	78.7	735	2326	7354	23256	73543
9	Interstate 5	Laguna Boulevard	North of Laguna B	78.1	67.6	75.1	80.1	1029	3254	10289	32537	102890
10	State Route 99	Mingo Road	Arno Road	76.9	66.3	73.8	78.9	771	2437	7706	24370	77064
11	State Route 99	Arno Road	Dillard Road	76.3	65.8	73.2	78.3	677	2140	6767	21400	67674
12	State Route 99	Dillard Road	Eschinger Road	76.2	65.7	73.2	78.2	665	2103	6650	21029	66500
13	State Route 99	Eschinger Road	Grant Line Road	76.4	65.9	73.3	78.4	688	2177	6885	21771	68847
14	State Route 99	Grant Line Road	Elk Grove Boulevard	76.6	66.1	73.5	78.6	724	2289	7237	22885	72369
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	78.7	68.2	75.7	80.7	1181	3736	11815	37362	118150
16	State Route 99	Laguna Boulevard	North of Laguna B	79.9	69.3	76.8	81.9	1534	4850	15337	48499	153366

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	25500	45	100	97	2	1	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	26300	45	100	97	2	1	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	33200	45	100	97	2	1	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	43600	45	100	97	2	1	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	55200	45	100	97	2	1	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	27000	45	100	97	2	1	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	26000	45	100	97	2	1	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	17100	45	100	97	2	1	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	18100	45	100	97	2	1	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	22400	45	100	97	2	1	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	16100	45	100	97	2	1	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	4771	35	100	97	2	1	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	7200	45	100	97	2	1	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	1000	45	100	97	2	1	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	4676	45	100	97	2	1	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	898	35	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	69.8	61.2	62.7	71.1	128	406	1284	4060	12838
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	70.0	61.4	62.9	71.2	132	419	1324	4187	13241
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	71.0	62.4	63.9	72.2	167	529	1671	5286	16715
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	70.6	62.0	63.5	71.8	153	484	1530	4839	15301
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	71.6	63.0	64.5	72.9	194	613	1937	6126	19372
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	68.5	59.9	61.4	69.8	95	300	948	2996	9475
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	68.4	59.8	61.2	69.6	91	289	912	2885	9124
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	66.5	57.9	59.4	67.8	60	190	600	1898	6001
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	66.8	58.2	59.7	68.0	64	201	635	2009	6352
10	Grant Line Road	E Stockton Boulev	Waterman Road	67.7	59.1	60.6	69.0	79	249	786	2486	7861
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	66.3	57.7	59.2	67.5	57	179	565	1787	5650
12	Bilby Road	Franklin Boulevarc	Bruceville Road	57.9	50.7	52.9	59.6	9	29	92	291	920
13	Kammerer Road	Bruceville Road	Promenade Parkw	62.8	54.2	55.7	64.0	25	80	253	799	2527
14	Eschinger Road	Bruceville Road	State Route 99	55.8	47.2	48.7	57.0	5	16	50	159	503
15	Dillard Road	State Route 99	Wilton Road	62.5	53.9	55.4	63.7	24	74	235	744	2354
16	Lambert Road	Interstate 5	Bruceville Road	52.2	45.0	47.2	54.0	2	8	25	79	248

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	19700	35	100	97	2	1	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	22400	35	100	97	2	1	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	3700	35	100	97	2	1	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	2100	35	100	97	2	1	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	1500	35	100	97	2	1	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	50000	65	100	97	2	1	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	60000	65	100	97	2	1	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	76000	65	100	97	2	1	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	91000	65	100	97	2	1	85	0	15	
10	State Route 99	Mingo Road	Arno Road	77000	65	100	97	2	1	85	0	15	
11	State Route 99	Arno Road	Dillard Road	70000	65	100	97	2	1	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	71000	65	100	97	2	1	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	71000	65	100	97	2	1	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	73000	65	100	97	2	1	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	119000	65	100	97	2	1	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	152000	65	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	65.6	58.4	60.6	67.4	55	172	545	1724	5451
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	66.1	59.0	61.2	67.9	62	196	620	1960	6198
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	58.3	51.1	53.3	60.1	10	32	102	324	1024
4	Bruceville Road	Kammerer Road	Eschinger Road	54.3	47.1	49.3	56.1	4	13	41	128	405
5	Bruceville Road	Eschinger Road	Lambert Road	52.8	45.7	47.8	54.6	3	9	29	91	289
6	Interstate 5	Twin Cities Road	Hood Franklin Road	75.8	65.1	65.5	76.5	448	1417	4480	14167	44799
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	76.6	65.9	66.3	77.3	538	1700	5376	17000	53759
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	77.6	66.9	67.4	78.3	681	2153	6809	21533	68095
9	Interstate 5	Laguna Boulevard	North of Laguna B	78.4	67.7	68.1	79.1	815	2578	8153	25784	81535
10	State Route 99	Mingo Road	Arno Road	77.7	67.0	67.4	78.4	690	2182	6899	21817	68991
11	State Route 99	Arno Road	Dillard Road	77.3	66.5	67.0	78.0	627	1983	6272	19833	62719
12	State Route 99	Dillard Road	Eschinger Road	77.3	66.6	67.1	78.0	636	2012	6361	20117	63615
13	State Route 99	Eschinger Road	Grant Line Road	77.3	66.6	67.1	78.0	636	2012	6361	20117	63615
14	State Route 99	Grant Line Road	Elk Grove Boulevard	79.0	68.3	68.8	79.7	938	2967	9383	29672	93831
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	81.1	70.4	70.9	81.8	1530	4837	15296	48370	152958
16	State Route 99	Laguna Boulevard	North of Laguna B	82.2	71.5	71.9	82.9	1954	6178	19537	61783	195375

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Project Traffic
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	29773	45	100	97	2	1	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	30653	45	100	97	2	1	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	38932	45	100	97	2	1	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	58532	45	100	97	2	1	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	71292	45	100	97	2	1	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	34869	45	100	97	2	1	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	33769	45	100	97	2	1	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	22945	45	100	97	2	1	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	28972	45	100	97	2	1	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	33702	45	100	97	2	1	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	26772	45	100	97	2	1	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	9666	35	100	97	2	1	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	21014	45	100	97	2	1	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	25479	45	100	97	2	1	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	6629	45	100	97	2	1	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	4349	35	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Project Traffic
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	70.5	61.9	63.4	71.8	150	474	1499	4740	14989
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	70.6	62.0	63.5	71.9	154	488	1543	4880	15432
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	71.7	63.1	64.6	72.9	196	620	1960	6198	19600
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	71.9	63.3	64.8	73.1	205	650	2054	6496	20541
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	72.7	64.1	65.6	74.0	250	791	2502	7912	25019
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	69.6	61.0	62.5	70.9	122	387	1224	3870	12237
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	69.5	60.9	62.4	70.7	119	375	1185	3748	11851
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	67.8	59.2	60.7	69.1	81	255	805	2546	8052
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	68.8	60.2	61.7	70.1	102	322	1017	3215	10167
10	Grant Line Road	E Stockton Boulev	Waterman Road	69.5	60.9	62.4	70.7	118	374	1183	3740	11827
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	68.5	59.9	61.4	69.7	94	297	940	2971	9395
12	Bilby Road	Franklin Boulevarc	Bruceville Road	60.9	53.8	55.9	62.7	19	59	186	590	1865
13	Kammerer Road	Bruceville Road	Promenade Parkw	67.4	58.8	60.3	68.7	74	233	737	2332	7375
14	Eschinger Road	Bruceville Road	State Route 99	69.8	61.2	62.7	71.1	128	406	1283	4056	12827
15	Dillard Road	State Route 99	Wilton Road	64.0	55.4	56.9	65.2	33	106	334	1055	3337
16	Lambert Road	Interstate 5	Bruceville Road	59.0	51.8	54.0	60.8	12	38	120	381	1203

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Project Traffic
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	31404	35	100	97	2	1	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	27052	35	100	97	2	1	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	20351	35	100	97	2	1	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	25741	35	100	97	2	1	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	5010	35	100	97	2	1	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	54400	65	100	97	2	1	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	74635	65	100	97	2	1	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	90019	65	100	97	2	1	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	104041	65	100	97	2	1	85	0	15	
10	State Route 99	Mingo Road	Arno Road	85163	65	100	97	2	1	85	0	15	
11	State Route 99	Arno Road	Dillard Road	77363	65	100	97	2	1	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	78263	65	100	97	2	1	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	81176	65	100	97	2	1	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	100985	65	100	97	2	1	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	150885	65	100	97	2	1	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	186885	65	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Existing + Project Traffic
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	67.6	60.4	62.6	69.4	87	275	869	2748	8690
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	67.0	59.8	62.0	68.7	75	237	749	2367	7486
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	65.7	58.6	60.7	67.5	56	178	563	1781	5631
4	Bruceville Road	Kammerer Road	Eschinger Road	65.2	58.0	60.2	67.0	50	157	497	1570	4965
5	Bruceville Road	Eschinger Road	Lambert Road	58.1	50.9	53.1	59.9	10	31	97	306	966
6	Interstate 5	Twin Cities Road	Hood Franklin Road	76.2	65.4	65.9	76.9	487	1541	4874	15413	48742
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	77.5	66.8	67.3	78.3	669	2115	6687	21147	66872
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	78.4	67.6	68.1	79.1	807	2551	8066	25505	80655
9	Interstate 5	Laguna Boulevard	North of Laguna B	79.0	68.3	68.7	79.7	932	2948	9322	29478	93219
10	State Route 99	Mingo Road	Arno Road	78.1	67.4	67.9	78.8	763	2413	7630	24130	76304
11	State Route 99	Arno Road	Dillard Road	77.7	67.0	67.4	78.4	693	2192	6932	21920	69316
12	State Route 99	Dillard Road	Eschinger Road	77.7	67.0	67.5	78.5	701	2217	7012	22175	70122
13	State Route 99	Eschinger Road	Grant Line Road	77.9	67.2	67.7	78.6	727	2300	7273	23000	72733
14	State Route 99	Grant Line Road	Elk Grove Boulevard	80.4	69.7	70.2	81.1	1298	4105	12980	41047	129802
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	82.2	71.4	71.9	82.9	1939	6133	19394	61330	193942
16	State Route 99	Laguna Boulevard	North of Laguna B	83.1	72.4	72.8	83.8	2402	7596	24021	75963	240215

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative No Project
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	25500	45	100	97	2	1	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	26300	45	100	97	2	1	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	35331	45	100	97	2	1	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	59720	45	100	97	2	1	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	75609	45	100	97	2	1	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	33016	45	100	97	2	1	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	31793	45	100	97	2	1	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	32093	45	100	97	2	1	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	28589	45	100	97	2	1	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	35381	45	100	97	2	1	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	25430	45	100	97	2	1	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	8400	35	100	97	2	1	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	29179	45	100	97	2	1	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	1100	45	100	97	2	1	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	4700	45	100	97	2	1	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	900	35	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative No Project
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	69.8	61.2	62.7	71.1	128	406	1284	4060	12838
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	70.0	61.4	62.9	71.2	132	419	1324	4187	13241
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	71.3	62.6	64.1	72.5	178	562	1779	5625	17787
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	72.0	63.4	64.8	73.2	210	663	2096	6628	20958
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	73.0	64.4	65.9	74.2	265	839	2653	8391	26534
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	69.4	60.8	62.3	70.6	116	366	1159	3664	11587
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	69.2	60.6	62.1	70.5	112	353	1116	3528	11157
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	69.3	60.7	62.2	70.5	113	356	1126	3562	11263
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	68.8	60.2	61.6	70.0	100	317	1003	3173	10033
10	Grant Line Road	E Stockton Boulev	Waterman Road	69.7	61.1	62.6	70.9	124	393	1242	3926	12417
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	68.3	59.7	61.1	69.5	89	282	892	2822	8924
12	Bilby Road	Franklin Boulevarc	Bruceville Road	60.3	53.1	55.3	62.1	16	51	162	512	1620
13	Kammerer Road	Bruceville Road	Promenade Parkw	68.9	60.3	61.7	70.1	102	324	1024	3238	10240
14	Eschinger Road	Bruceville Road	State Route 99	56.2	47.6	49.1	57.4	6	18	55	175	554
15	Dillard Road	State Route 99	Wilton Road	62.5	53.9	55.4	63.7	24	75	237	748	2366
16	Lambert Road	Interstate 5	Bruceville Road	52.2	45.0	47.2	54.0	2	8	25	79	249

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative No Project
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	14916	35	100	97	2	1	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	22400	35	100	97	2	1	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	3700	35	100	97	2	1	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	2100	35	100	97	2	1	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	1500	35	100	97	2	1	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	65890	65	100	97	2	1	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	72067	65	100	97	2	1	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	88912	65	100	97	2	1	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	103341	65	100	97	2	1	85	0	15	
10	State Route 99	Mingo Road	Arno Road	94355	65	100	97	2	1	85	0	15	
11	State Route 99	Arno Road	Dillard Road	85778	65	100	97	2	1	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	87003	65	100	97	2	1	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	88580	65	100	97	2	1	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	89361	65	100	97	2	1	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	145671	65	100	97	2	1	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	186067	65	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative No Project
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	64.4	57.2	59.4	66.2	41	131	413	1305	4127
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	66.1	59.0	61.2	67.9	62	196	620	1960	6198
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	58.3	51.1	53.3	60.1	10	32	102	324	1024
4	Bruceville Road	Kammerer Road	Eschinger Road	54.3	47.1	49.3	56.1	4	13	41	128	405
5	Bruceville Road	Eschinger Road	Lambert Road	52.8	45.7	47.8	54.6	3	9	29	91	289
6	Interstate 5	Twin Cities Road	Hood Franklin Road	77.0	66.3	66.7	77.7	590	1867	5904	18669	59036
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	77.4	66.7	67.1	78.1	646	2042	6457	20419	64571
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	78.3	67.6	68.0	79.0	797	2519	7966	25192	79664
9	Interstate 5	Laguna Boulevard	North of Laguna B	78.9	68.2	68.7	79.7	926	2928	9259	29280	92592
10	State Route 99	Mingo Road	Arno Road	78.6	67.8	68.3	79.3	845	2673	8454	26734	84541
11	State Route 99	Arno Road	Dillard Road	78.1	67.4	67.9	78.9	769	2430	7686	24304	76856
12	State Route 99	Dillard Road	Eschinger Road	78.2	67.5	68.0	78.9	780	2465	7795	24651	77953
13	State Route 99	Eschinger Road	Grant Line Road	78.3	67.6	68.0	79.0	794	2510	7937	25098	79366
14	State Route 99	Grant Line Road	Elk Grove Boulevard	79.9	69.2	69.6	80.6	1149	3632	11486	36322	114861
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	82.0	71.3	71.8	82.7	1872	5921	18724	59210	187240
16	State Route 99	Laguna Boulevard	North of Laguna B	83.1	72.4	72.8	83.8	2392	7563	23916	75630	239163

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative Plus Project
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Elk Grove Boulevard	Interstate 5	Harbour Point Drive	26923	45	100	97	2	1	74	0	26	
2	Elk Grove Boulevard	Harbour Point Drive	Franklin Boulevard	27723	45	100	97	2	1	74	0	26	
3	Elk Grove Boulevard	Franklin Boulevard	Bruceville Road	37643	45	100	97	2	1	74	0	26	
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs Drive	70192	45	100	97	2	1	85	0	15	
5	Elk Grove Boulevard	Laguna Springs Drive	State Route 99	86481	45	100	97	2	1	85	0	15	
6	Elk Grove Boulevard	State Route 99	E Stockton Boulevard	38385	45	100	97	2	1	85	0	15	
7	Elk Grove Boulevard	E Stockton Boulevard	Elk Grove Florin Road	37062	45	100	97	2	1	85	0	15	
8	Elk Grove Boulevard	Elk Grove Florin Road	Waterman Road	36528	45	100	97	2	1	85	0	15	
9	Grant Line Road	Promenade Parkway	E Stockton Boulevard	39651	45	100	97	2	1	85	0	15	
10	Grant Line Road	E Stockton Boulevard	Waterman Road	46542	45	100	97	2	1	85	0	15	
11	Grant Line Road	Waterman Road	Elk Grove Boulevard	36892	45	100	97	2	1	85	0	15	
12	Bilby Road	Franklin Boulevard	Bruceville Road	12818	35	100	97	2	1	85	0	15	
13	Kammerer Road	Bruceville Road	Promenade Parkway	43273	45	100	97	2	1	85	0	15	
14	Eschinger Road	Bruceville Road	State Route 99	25479	45	100	97	2	1	74	0	26	
15	Dillard Road	State Route 99	Wilton Road	6185	45	100	97	2	1	74	0	26	
16	Lambert Road	Interstate 5	Bruceville Road	4261	35	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)

Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative Plus Project
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Elk Grove Boulevard	Interstate 5	Harbour Point Driv	70.1	61.5	63.0	71.3	136	429	1355	4286	13554
2	Elk Grove Boulevard	Harbour Point Driv	Franklin Boulevarc	70.2	61.6	63.1	71.4	140	441	1396	4414	13957
3	Elk Grove Boulevard	Franklin Boulevarc	Bruceville Road	71.5	62.9	64.4	72.8	190	599	1895	5993	18951
4	Elk Grove Boulevard	Bruceville Road	Laguna Springs D	72.7	64.1	65.5	73.9	246	779	2463	7790	24633
5	Elk Grove Boulevard	Laguna Springs D	State Route 99	73.6	65.0	66.5	74.8	303	960	3035	9597	30350
6	Elk Grove Boulevard	State Route 99	E Stockton Boulev	70.0	61.4	62.9	71.3	135	426	1347	4260	13471
7	Elk Grove Boulevard	E Stockton Boulev	Elk Grove Florin R	69.9	61.3	62.8	71.1	130	411	1301	4113	13006
8	Elk Grove Boulevard	Elk Grove Florin R	Waterman Road	69.8	61.2	62.7	71.1	128	405	1282	4054	12819
9	Grant Line Road	Promenade Parkw	E Stockton Boulev	70.2	61.6	63.1	71.4	139	440	1391	4400	13915
10	Grant Line Road	E Stockton Boulev	Waterman Road	70.9	62.3	63.8	72.1	163	517	1633	5165	16334
11	Grant Line Road	Waterman Road	Elk Grove Boulevc	69.9	61.3	62.8	71.1	129	409	1295	4094	12947
12	Bilby Road	Franklin Boulevarc	Bruceville Road	62.1	55.0	57.2	63.9	25	78	247	782	2472
13	Kammerer Road	Bruceville Road	Promenade Parkw	70.6	62.0	63.4	71.8	152	480	1519	4802	15186
14	Eschinger Road	Bruceville Road	State Route 99	69.8	61.2	62.7	71.1	128	406	1283	4056	12827
15	Dillard Road	State Route 99	Wilton Road	63.7	55.1	56.6	64.9	31	98	311	985	3114
16	Lambert Road	Interstate 5	Bruceville Road	58.9	51.8	53.9	60.7	12	37	118	373	1179

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative Plus Project
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn
K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkway	24750	35	100	97	2	1	74	0	26	
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkway	24712	35	100	97	2	1	74	0	26	
3	Bruceville Road	Whitelock Parkway	Kammerer Road	19981	35	100	97	2	1	74	0	26	
4	Bruceville Road	Kammerer Road	Eschinger Road	25531	35	100	97	2	1	85	0	15	
5	Bruceville Road	Eschinger Road	Lambert Road	4860	35	100	97	2	1	85	0	15	
6	Interstate 5	Twin Cities Road	Hood Franklin Road	65940	65	100	97	2	1	85	0	15	
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	80802	65	100	97	2	1	85	0	15	
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	96731	65	100	97	2	1	85	0	15	
9	Interstate 5	Laguna Boulevard	North of Laguna Boulevard	107682	65	100	97	2	1	85	0	15	
10	State Route 99	Mingo Road	Arno Road	96018	65	100	97	2	1	85	0	15	
11	State Route 99	Arno Road	Dillard Road	87440	65	100	97	2	1	85	0	15	
12	State Route 99	Dillard Road	Eschinger Road	88666	65	100	97	2	1	85	0	15	
13	State Route 99	Eschinger Road	Grant Line Road	92956	65	100	97	2	1	85	0	15	
14	State Route 99	Grant Line Road	Elk Grove Boulevard	111246	65	100	97	2	1	74	0	26	
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard/Bond Road	166556	65	100	97	2	1	74	0	26	
16	State Route 99	Laguna Boulevard/Bond Road	North of Laguna Boulevard/ Bond Road	207952	65	100	97	2	1	74	0	26	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : 60491507 - Kammerer/Highway99 SOI EIR
Project Number : 60491507
Modeling Condition : Cumulative Plus Project
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Franklin Boulevard	Elk Grove Boulevard	Whitelock Parkwa	66.6	59.4	61.6	68.4	68	217	685	2166	6849
2	Bruceville Road	Elk Grove Boulevard	Whitelock Parkwa	66.6	59.4	61.6	68.3	68	216	684	2162	6838
3	Bruceville Road	Whitelock Parkwa	Kammerer Road	65.6	58.5	60.7	67.4	55	175	553	1748	5529
4	Bruceville Road	Kammerer Road	Eschinger Road	65.1	58.0	60.2	66.9	49	156	492	1557	4925
5	Bruceville Road	Eschinger Road	Lambert Road	57.9	50.8	52.9	59.7	9	30	94	296	937
6	Interstate 5	Twin Cities Road	Hood Franklin Road	77.0	66.3	66.7	77.7	591	1868	5908	18683	59081
7	Interstate 5	Hood Franklin Road	Elk Grove Boulevard	77.9	67.2	67.6	78.6	724	2289	7240	22894	72397
8	Interstate 5	Elk Grove Boulevard	Laguna Boulevard	78.7	67.9	68.4	79.4	867	2741	8667	27407	86669
9	Interstate 5	Laguna Boulevard	North of Laguna B	79.1	68.4	68.9	79.8	965	3051	9648	30510	96481
10	State Route 99	Mingo Road	Arno Road	78.6	67.9	68.4	79.3	860	2721	8603	27205	86031
11	State Route 99	Arno Road	Dillard Road	78.2	67.5	68.0	78.9	783	2477	7835	24775	78345
12	State Route 99	Dillard Road	Eschinger Road	78.3	67.6	68.0	79.0	794	2512	7944	25122	79443
13	State Route 99	Eschinger Road	Grant Line Road	78.5	67.8	68.2	79.2	833	2634	8329	26338	83287
14	State Route 99	Grant Line Road	Elk Grove Boulevard	80.8	70.1	70.6	81.6	1430	4522	14299	45218	142992
15	State Route 99	Elk Grove Boulevard	Laguna Boulevard	82.6	71.9	72.3	83.3	2141	6770	21408	67700	214085
16	State Route 99	Laguna Boulevard	North of Laguna B	83.6	72.8	73.3	84.3	2673	8453	26729	84526	267294

