

Appendix C

Noise Monitoring Results

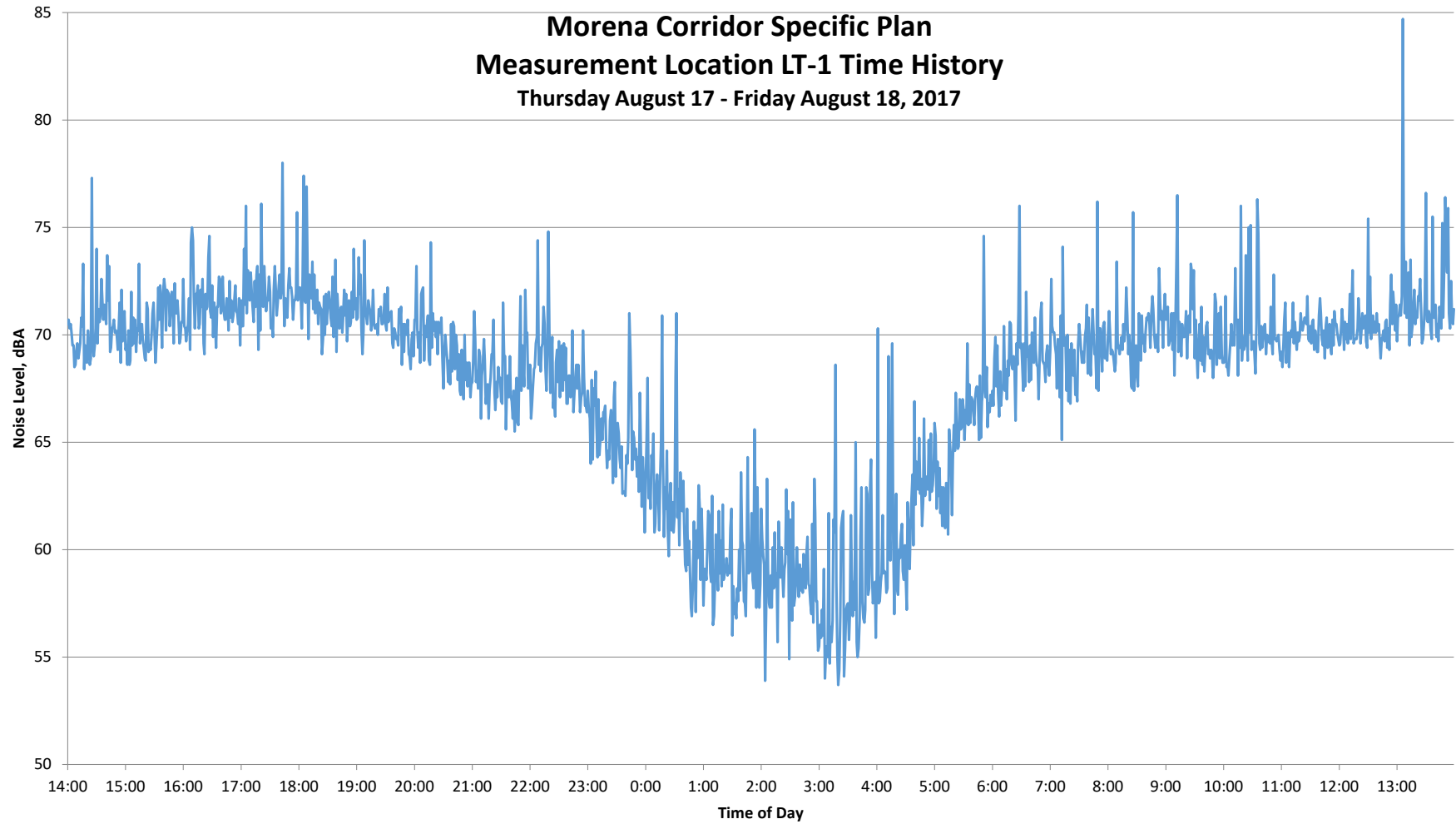
Noise Monitoring Program

Morena Corridor Specific Plan: August 17-18, 21

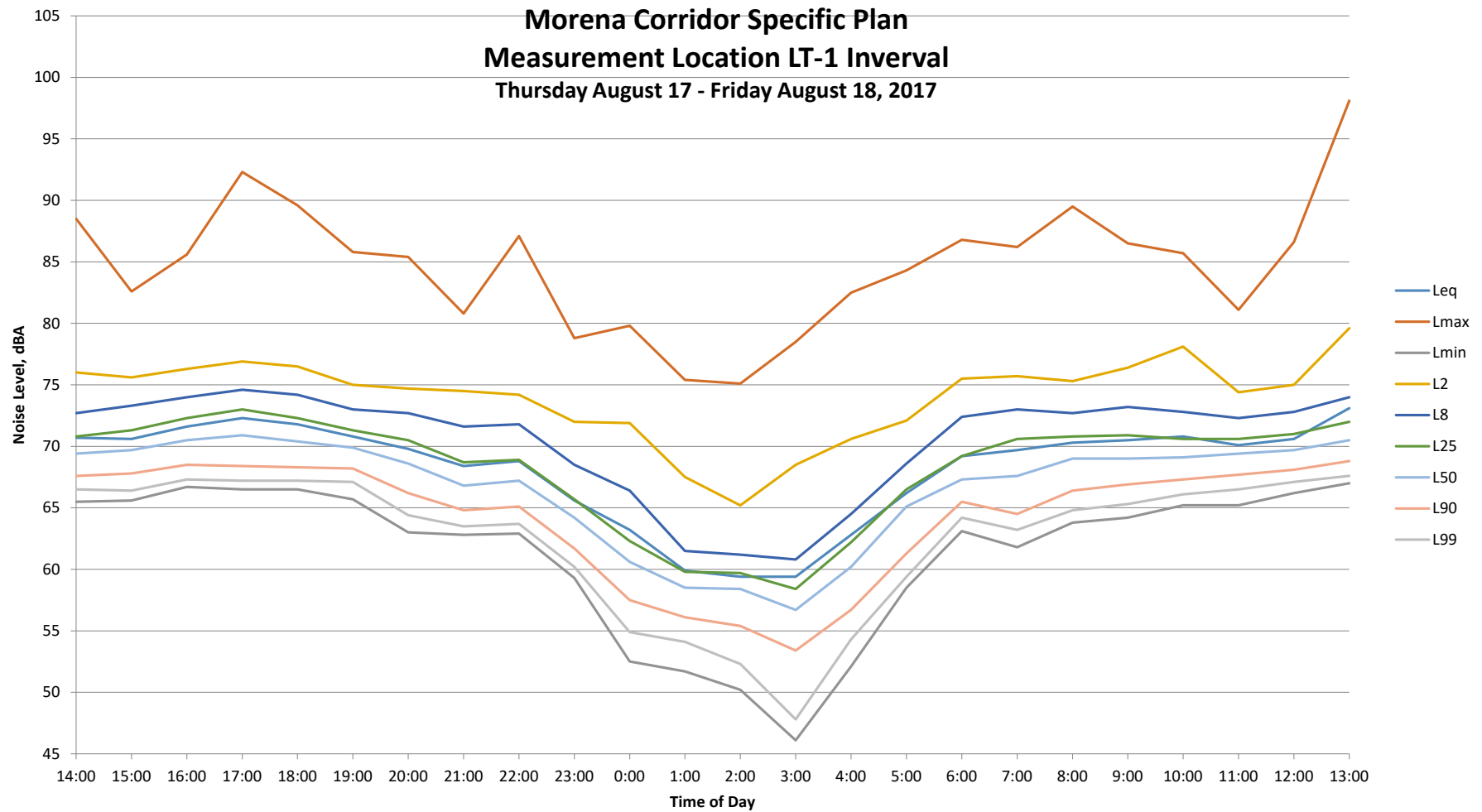
LT-1 Intervals

Date	Time	Duration	Leq	SEL	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)	L(90)	L(99)
17-Aug-17	13:12:48	0:47:11	70.3	104.8	88.0	64.5	76.0	72.3	70.4	68.9	67.1	65.8
17-Aug-17	14:00:00	1:00:00	70.7	106.3	88.5	65.5	76.0	72.7	70.8	69.4	67.6	66.5
17-Aug-17	15:00:00	1:00:00	70.6	106.2	82.6	65.6	75.6	73.3	71.3	69.7	67.8	66.4
17-Aug-17	16:00:00	1:00:00	71.6	107.2	85.6	66.7	76.3	74.0	72.3	70.5	68.5	67.3
17-Aug-17	17:00:00	1:00:00	72.3	107.9	92.3	66.5	76.9	74.6	73.0	70.9	68.4	67.2
17-Aug-17	18:00:00	1:00:00	71.8	107.4	89.6	66.5	76.5	74.2	72.3	70.4	68.3	67.2
17-Aug-17	19:00:00	1:00:00	70.8	106.3	85.8	65.7	75.0	73.0	71.3	69.9	68.2	67.1
17-Aug-17	20:00:00	1:00:00	69.8	105.4	85.4	63.0	74.7	72.7	70.5	68.6	66.2	64.4
17-Aug-17	21:00:00	1:00:00	68.4	104.0	80.8	62.8	74.5	71.6	68.7	66.8	64.8	63.5
17-Aug-17	22:00:00	1:00:00	68.8	104.4	87.1	62.9	74.2	71.8	68.9	67.2	65.1	63.7
17-Aug-17	23:00:00	1:00:00	65.6	101.2	78.8	59.3	72.0	68.5	65.7	64.2	61.7	60.2
18-Aug-17	0:00:00	1:00:00	63.2	98.8	79.8	52.5	71.9	66.4	62.3	60.6	57.5	54.9
18-Aug-17	1:00:00	1:00:00	59.9	95.5	75.4	51.7	67.5	61.5	59.8	58.5	56.1	54.1
18-Aug-17	2:00:00	1:00:00	59.4	95.0	75.1	50.2	65.2	61.2	59.7	58.4	55.4	52.3
18-Aug-17	3:00:00	1:00:00	59.4	95.0	78.5	46.1	68.5	60.8	58.4	56.7	53.4	47.8
18-Aug-17	4:00:00	1:00:00	62.8	98.4	82.5	52.1	70.6	64.5	62.2	60.2	56.7	54.3
18-Aug-17	5:00:00	1:00:00	66.2	101.8	84.3	58.5	72.1	68.6	66.5	65.1	61.3	59.4
18-Aug-17	6:00:00	1:00:00	69.2	104.8	86.8	63.1	75.5	72.4	69.2	67.3	65.5	64.2
18-Aug-17	7:00:00	1:00:00	69.7	105.3	86.2	61.8	75.7	73.0	70.6	67.6	64.5	63.2
18-Aug-17	8:00:00	1:00:00	70.3	105.8	89.5	63.8	75.3	72.7	70.8	69.0	66.4	64.8
18-Aug-17	9:00:00	1:00:00	70.5	106.1	86.5	64.2	76.4	73.2	70.9	69.0	66.9	65.3
18-Aug-17	10:00:00	1:00:00	70.8	106.4	85.7	65.2	78.1	72.8	70.6	69.1	67.3	66.1
18-Aug-17	11:00:00	1:00:00	70.1	105.7	81.1	65.2	74.4	72.3	70.6	69.4	67.7	66.5
18-Aug-17	12:00:00	1:00:00	70.6	106.2	86.6	66.2	75.0	72.8	71.0	69.7	68.1	67.1
18-Aug-17	13:00:00	1:00:00	73.1	108.7	98.1	67.0	79.6	74.0	72.0	70.5	68.8	67.6
18-Aug-17	14:00:00	1:00:00	73.2	108.8	99.1	66.7	77.1	73.1	71.5	70.1	68.5	67.4
18-Aug-17	15:00:00	1:00:00	72.3	107.9	87.0	66.7	78.7	74.9	72.7	70.9	68.8	67.4
18-Aug-17	16:00:00	1:00:00	72.8	108.4	88.2	66.7	78.8	75.5	73.3	71.4	68.8	67.4

Morena Corridor Specific Plan
Measurement Location LT-1 Time History
Thursday August 17 - Friday August 18, 2017



Morena Corridor Specific Plan
Measurement Location LT-1 Interval
Thursday August 17 - Friday August 18, 2017



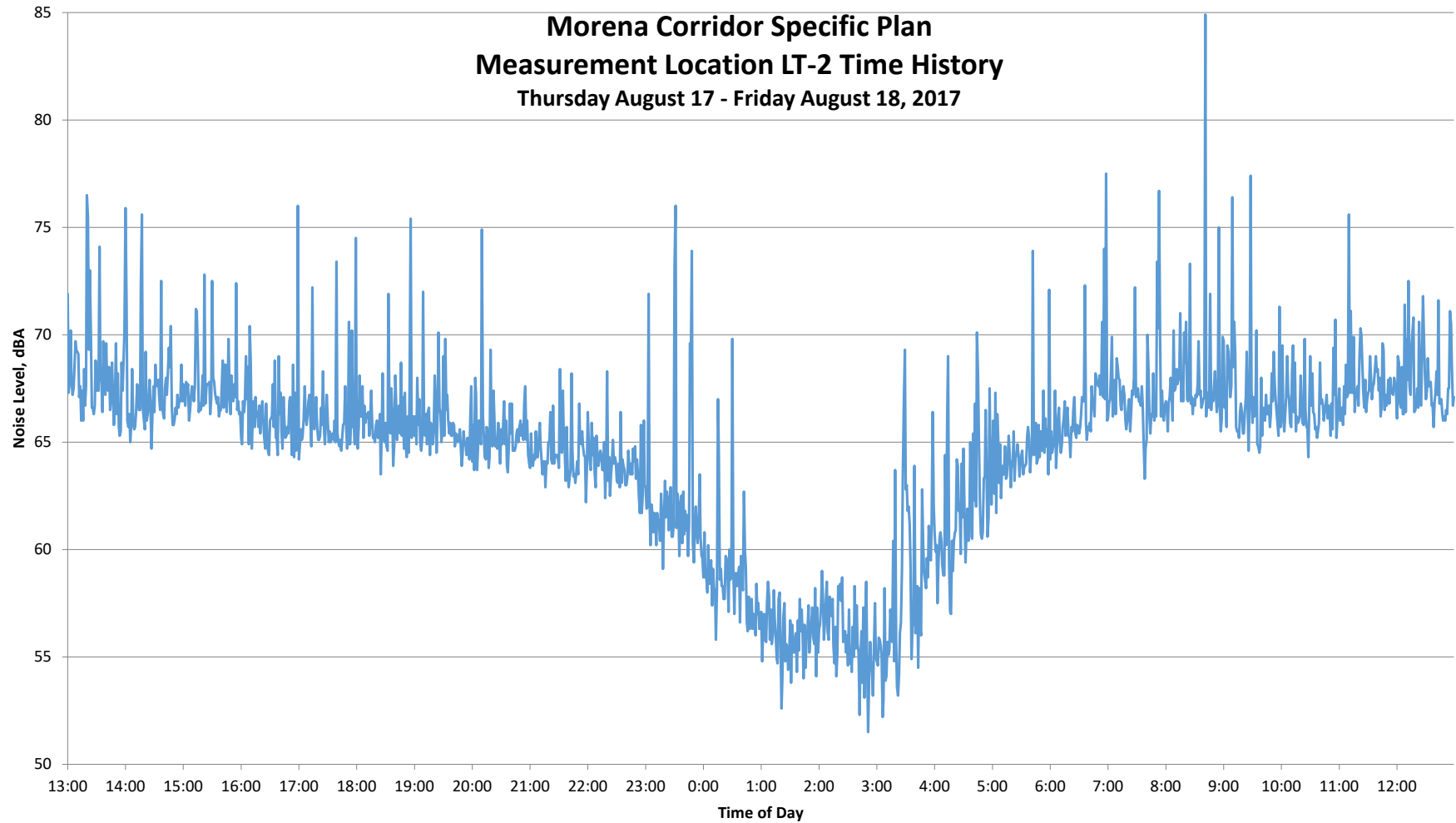
Morena Corridor Specific Plan Noise Metrics Calculations (LT-1)

INPUT		24-hr INPUT	INPUT		Ldn CALCS		CNEL CALCS	
Time	D/E/N	Day 1, 1-h Leq	Day 2, 1-h Leq	AVG Lvl	Penalty	Adj'd SPL	Penalty	Adj'd SPL
14:00:00	D	70.7	0	70.7	0	70.7	0	70.7
15:00:00	D	70.6	0	70.6	0	70.6	0	70.6
16:00:00	D	71.6	0	71.6	0	71.6	0	71.6
17:00:00	D	72.3	0	72.3	0	72.3	0	72.3
18:00:00	D	71.8	0	71.8	0	71.8	0	71.8
19:00:00	E	70.8	0	70.8	0	70.8	5	75.8
20:00:00	E	69.8	0	69.8	0	69.8	5	74.8
21:00:00	E	68.4	0	68.4	0	68.4	5	73.4
22:00:00	N	68.8	0	68.8	10	78.8	10	78.8
23:00:00	N	65.6	0	65.6	10	75.6	10	75.6
0:00:00	N	63.2	0	63.2	10	73.2	10	73.2
1:00:00	N	59.9	0	59.9	10	69.9	10	69.9
2:00:00	N	59.4	0	59.4	10	69.4	10	69.4
3:00:00	N	59.4	0	59.4	10	69.4	10	69.4
4:00:00	N	62.8	0	62.8	10	72.8	10	72.8
5:00:00	N	66.2	0	66.2	10	76.2	10	76.2
6:00:00	N	69.2	0	69.2	10	79.2	10	79.2
7:00:00	D	69.7	0	69.7	0	69.7	0	69.7
8:00:00	D	70.3	0	70.3	0	70.3	0	70.3
9:00:00	D	70.5	0	70.5	0	70.5	0	70.5
10:00:00	D	70.8	0	70.8	0	70.8	0	70.8
11:00:00	D	70.1	0	70.1	0	70.1	0	70.1
12:00:00	D	70.6	0	70.6	0	70.6	0	70.6
13:00:00	D	73.1	0	73.1	0	73.1	0	73.1
		24h Leq			Ldn		CNEL	
		69.5			73.1		73.6	

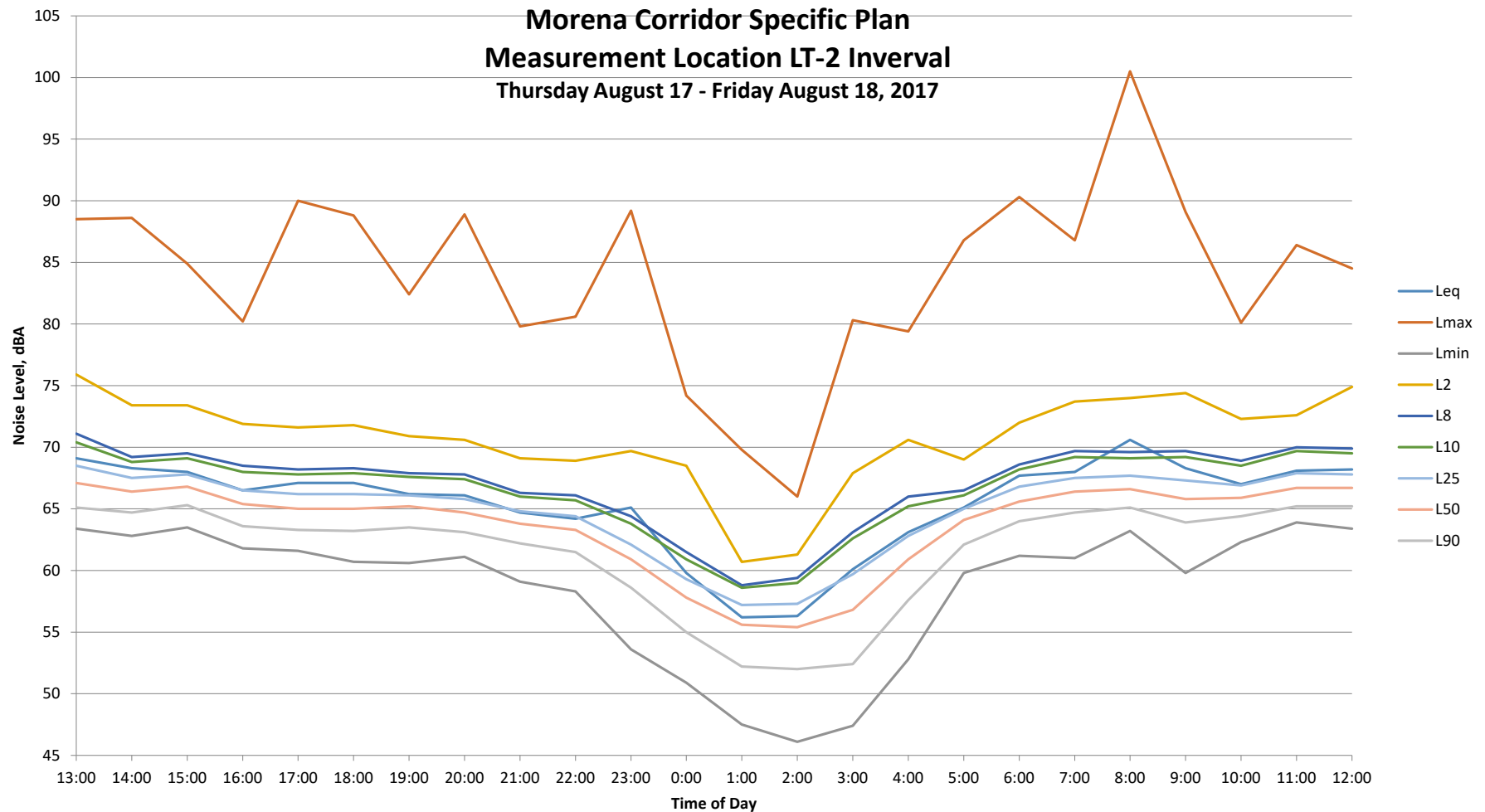
LT-2 Intervals

Date	Time	Duration	Leq	SEL	Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
17-Aug-17	12:33:34	1585.8	68.2	100.2	83.2	63.4	74.4	69.9	69.6	68.1	66.6	65.1
17-Aug-17	13:00:00	3600	69.1	104.7	88.5	63.4	75.9	71.1	70.4	68.5	67.1	65.1
17-Aug-17	14:00:00	3600	68.3	103.8	88.6	62.8	73.4	69.2	68.8	67.5	66.4	64.7
17-Aug-17	15:00:00	3600	68	103.6	84.9	63.5	73.4	69.5	69.1	67.8	66.8	65.3
17-Aug-17	16:00:00	3600	66.5	102.1	80.2	61.8	71.9	68.5	68	66.5	65.4	63.6
17-Aug-17	17:00:00	3600	67.1	102.6	90	61.6	71.6	68.2	67.8	66.2	65	63.3
17-Aug-17	18:00:00	3600	67.1	102.6	88.8	60.7	71.8	68.3	67.9	66.2	65	63.2
17-Aug-17	19:00:00	3600	66.2	101.8	82.4	60.6	70.9	67.9	67.6	66.1	65.2	63.5
17-Aug-17	20:00:00	3600	66.1	101.7	88.9	61.1	70.6	67.8	67.4	65.8	64.7	63.1
17-Aug-17	21:00:00	3600	64.7	100.3	79.8	59.1	69.1	66.3	66	64.8	63.8	62.2
17-Aug-17	22:00:00	3600	64.2	99.7	80.6	58.3	68.9	66.1	65.7	64.4	63.3	61.5
17-Aug-17	23:00:00	3600	65.1	100.7	89.2	53.6	69.7	64.4	63.8	62.1	60.9	58.6
18-Aug-17	0:00:00	3600	59.8	95.4	74.2	50.9	68.5	61.5	60.9	59.3	57.8	55
18-Aug-17	1:00:00	3600	56.2	91.8	69.8	47.5	60.7	58.8	58.6	57.2	55.6	52.2
18-Aug-17	2:00:00	3600	56.3	91.9	66	46.1	61.3	59.4	59	57.3	55.4	52
18-Aug-17	3:00:00	3600	60.1	95.6	80.3	47.4	67.9	63.1	62.6	59.7	56.8	52.4
18-Aug-17	4:00:00	3600	63.1	98.7	79.4	52.8	70.6	66	65.2	62.8	60.9	57.6
18-Aug-17	5:00:00	3600	65.1	100.7	86.8	59.8	69	66.5	66.1	65	64.1	62.1
18-Aug-17	6:00:00	3600	67.7	103.3	90.3	61.2	72	68.6	68.2	66.8	65.6	64
18-Aug-17	7:00:00	3600	68	103.6	86.8	61	73.7	69.7	69.2	67.5	66.4	64.7
18-Aug-17	8:00:00	3600	70.6	106.2	100.5	63.2	74	69.6	69.1	67.7	66.6	65.1
18-Aug-17	9:00:00	3600	68.3	103.9	89.1	59.8	74.4	69.7	69.2	67.3	65.8	63.9
18-Aug-17	10:00:00	3600	67	102.5	80.1	62.3	72.3	68.9	68.5	66.9	65.9	64.4
18-Aug-17	11:00:00	3600	68.1	103.7	86.4	63.9	72.6	70	69.7	67.9	66.7	65.2
18-Aug-17	12:00:00	3600	68.2	103.8	84.5	63.4	74.9	69.9	69.5	67.8	66.7	65.2
18-Aug-17	13:00:00	3600	68	103.6	82.8	63.6	74.1	69.9	69.5	67.8	66.6	65.2
18-Aug-17	14:00:00	3600	68.4	104	88.7	62.1	74.1	69.8	69.4	67.6	66.5	65
18-Aug-17	15:00:00	3600	66.8	102.4	84.9	61.6	72	68.6	68.2	66.7	65.6	64.1
18-Aug-17	16:00:00	3600	67.7	103.2	88.2	61.4	72.6	69.1	68.7	66.9	65.8	64.1
18-Aug-17	17:00:00	3600	66.8	102.4	83.2	61.4	72.4	68.9	68.5	66.8	65.5	63.7
18-Aug-17	18:00:00	3600	66.4	102	80.3	60.5	71.1	68.7	68.3	66.7	65.5	63.7
18-Aug-17	19:00:00	3600	66.3	101.9	80.2	61.6	71	68.3	67.9	66.6	65.5	63.7

Morena Corridor Specific Plan
Measurement Location LT-2 Time History
Thursday August 17 - Friday August 18, 2017



Morena Corridor Specific Plan
Measurement Location LT-2 Interval
Thursday August 17 - Friday August 18, 2017



Morena Corridor Specific Plan Noise Metrics Calculations (LT-2)

INPUT		24-hr INPUT	INPUT		Ldn CALCS		CNEL CALCS	
Time	D/E/N	Day 1, 1-h Leq	Day 2, 1-h Leq	AVG Lvl	Penalty	Adj'd SPL	Penalty	Adj'd SPL
13:00:00	D	69.1	0	69.1	0	69.1	0	69.1
14:00:00	D	68.3	0	68.3	0	68.3	0	68.3
15:00:00	D	68	0	68.0	0	68.0	0	68.0
16:00:00	D	66.5	0	66.5	0	66.5	0	66.5
17:00:00	D	67.1	0	67.1	0	67.1	0	67.1
18:00:00	D	67.1	0	67.1	0	67.1	0	67.1
19:00:00	E	66.2	0	66.2	0	66.2	5	71.2
20:00:00	E	66.1	0	66.1	0	66.1	5	71.1
21:00:00	E	64.7	0	64.7	0	64.7	5	69.7
22:00:00	N	64.2	0	64.2	10	74.2	10	74.2
23:00:00	N	65.1	0	65.1	10	75.1	10	75.1
0:00:00	N	59.8	0	59.8	10	69.8	10	69.8
1:00:00	N	56.2	0	56.2	10	66.2	10	66.2
2:00:00	N	56.3	0	56.3	10	66.3	10	66.3
3:00:00	N	60.1	0	60.1	10	70.1	10	70.1
4:00:00	N	63.1	0	63.1	10	73.1	10	73.1
5:00:00	N	65.1	0	65.1	10	75.1	10	75.1
6:00:00	N	67.7	0	67.7	10	77.7	10	77.7
7:00:00	D	68	0	68.0	0	68.0	0	68.0
8:00:00	D	70.6	0	70.6	0	70.6	0	70.6
9:00:00	D	68.3	0	68.3	0	68.3	0	68.3
10:00:00	D	67	0	67.0	0	67.0	0	67.0
11:00:00	D	68.1	0	68.1	0	68.1	0	68.1
12:00:00	D	68.2	0	68.2	0	68.2	0	68.2
		24h Leq			Ldn		CNEL	
		66.6			70.8		71.1	

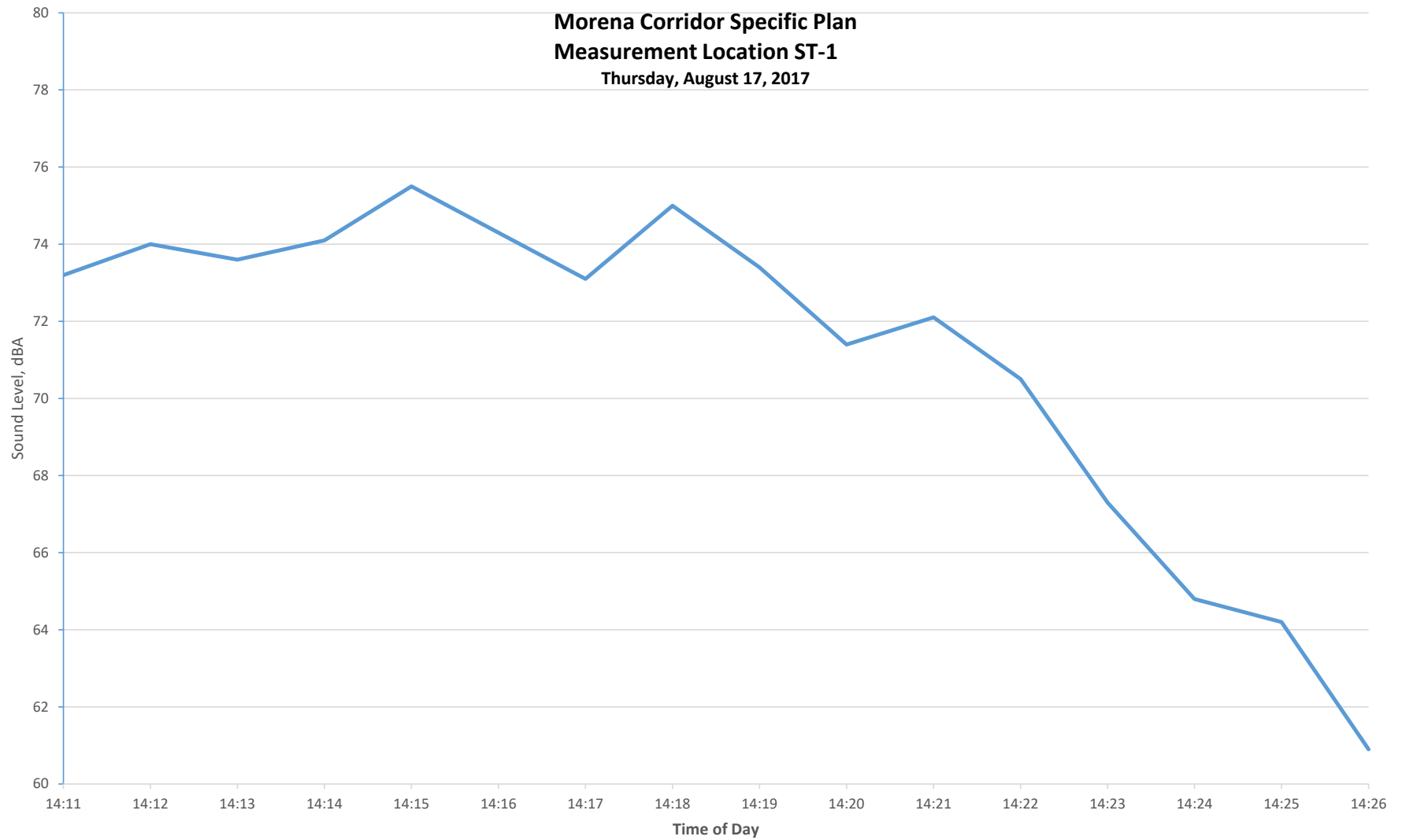
ST-1 Time History

Date	Time	Level
-----	-----	----
17-Aug-17	14:11:10	Run
17-Aug-17	14:11:10	73.2
17-Aug-17	14:12:10	74.0
17-Aug-17	14:13:10	73.6
17-Aug-17	14:14:10	74.1
17-Aug-17	14:15:10	75.5
17-Aug-17	14:16:10	74.3
17-Aug-17	14:17:10	73.1
17-Aug-17	14:18:10	75.0
17-Aug-17	14:19:10	73.4
17-Aug-17	14:20:10	71.4
17-Aug-17	14:21:10	72.1
17-Aug-17	14:22:10	70.5
17-Aug-17	14:23:10	67.3
17-Aug-17	14:24:10	64.8
17-Aug-17	14:25:10	64.2
17-Aug-17	14:26:10	60.9
17-Aug-17	14:27:10	Stop

15-min Leq 72.8

Date	Time	Duration	Leq	ST-1 Intervals								
				SEL	Lmax	Lmin	L(2)	L(8)	L(33)	L(50)	L(67)	L(90)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17-Aug-17	14:11:10	0:15:00	72.8	102.3	82.3	59	79	76.7	72.9	71.1	69.4	63.5

Morena Corridor Specific Plan
Measurement Location ST-1
Thursday, August 17, 2017



ST-2 Time History

Date	Time	Level	SEL
21-Aug-17	12:48:46	57.2	75
21-Aug-17	12:49:46	61.9	79.6
21-Aug-17	12:50:46	60.9	78.7
21-Aug-17	12:51:46	61.1	78.9
21-Aug-17	12:52:46	59.8	77.6
21-Aug-17	12:53:46	58.6	76.4
21-Aug-17	12:54:46	58.2	76
21-Aug-17	12:55:46	59.3	77.1
21-Aug-17	12:56:46	58.9	76.6
21-Aug-17	12:57:46	63	80.8
21-Aug-17	12:58:46	66.6	84.4
21-Aug-17	12:59:46	64.1	81.8
21-Aug-17	13:00:46	63.9	81.7
21-Aug-17	13:01:46	59.2	77
21-Aug-17	13:02:46	56.7	74.5
21-Aug-17	13:03:46	55.5	73.3

15-min Leq 61.5

Date	Time	Duration	Leq	ST-2 Intervals								
				SEL	Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
21-Aug-17	12:48:46	900	61.5	91.1	76.5	54.3	67.8	64.7	64.4	62.5	59.6	56.1

Morena Corridor Specific Plan
Measurement Location ST-2
Monday, August 21, 2017



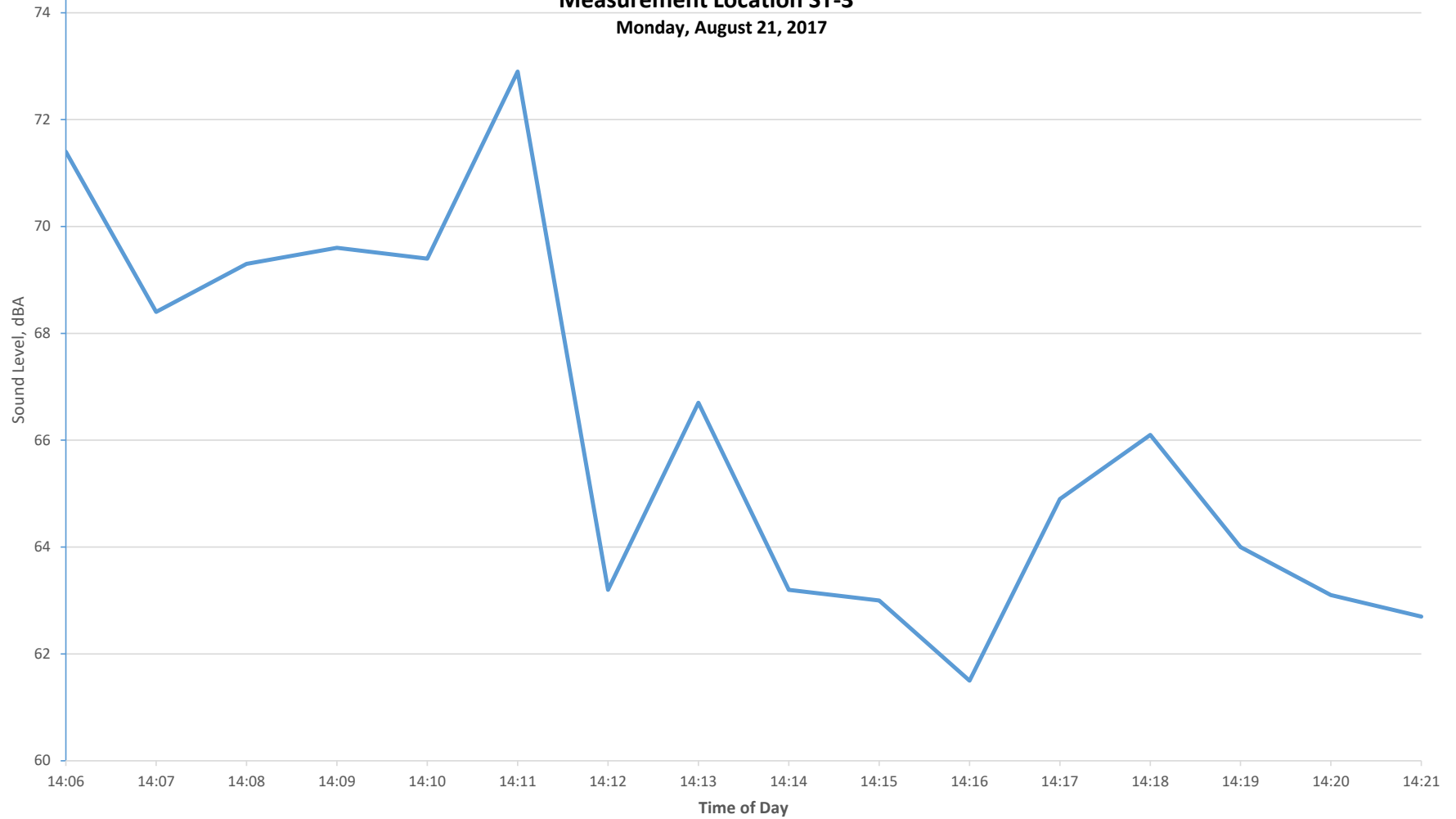
ST-3 Time History

Date	Time	Level	SEL
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21-Aug-17	14:06:43	71.4	89.1
21-Aug-17	14:07:43	68.4	86.1
21-Aug-17	14:08:43	69.3	87.1
21-Aug-17	14:09:43	69.6	87.4
21-Aug-17	14:10:43	69.4	87.2
21-Aug-17	14:11:43	72.9	90.6
21-Aug-17	14:12:43	63.2	81
21-Aug-17	14:13:43	66.7	84.5
21-Aug-17	14:14:43	63.2	80.9
21-Aug-17	14:15:43	63	80.7
21-Aug-17	14:16:43	61.5	79.2
21-Aug-17	14:17:43	64.9	82.7
21-Aug-17	14:18:43	66.1	83.9
21-Aug-17	14:19:43	64	81.7
21-Aug-17	14:20:43	63.1	80.9
21-Aug-17	14:21:43	62.7	80.5

15-min Leq 67.8

Date	Time	Duration	Leq	SEL	ST-3 Intervals							
					Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
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21-Aug-17	14:06:43	900	67.8	97.3	88.2	56.9	73.9	70.5	70.1	68.9	65.1	60.1

Morena Corridor Specific Plan
Measurement Location ST-3
Monday, August 21, 2017



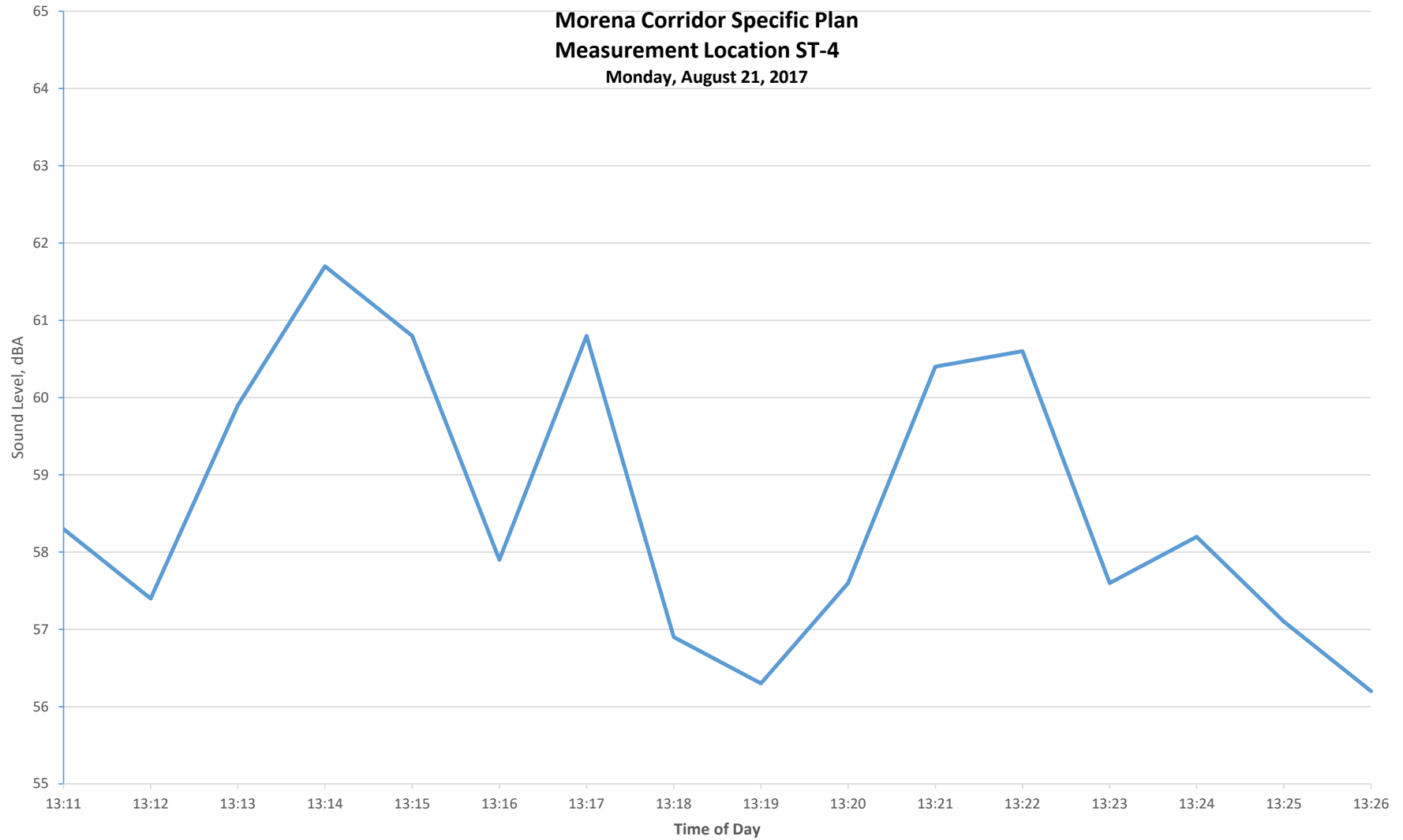
ST-4 Time History

Date	Time	Level	SEL
-----	-----	----	
21-Aug-17	13:11:26	58.3	76.1
21-Aug-17	13:12:26	57.4	75.2
21-Aug-17	13:13:26	59.9	77.6
21-Aug-17	13:14:26	61.7	79.4
21-Aug-17	13:15:26	60.8	78.6
21-Aug-17	13:16:26	57.9	75.7
21-Aug-17	13:17:26	60.8	78.6
21-Aug-17	13:18:26	56.9	74.7
21-Aug-17	13:19:26	56.3	74.1
21-Aug-17	13:20:26	57.6	75.3
21-Aug-17	13:21:26	60.4	78.2
21-Aug-17	13:22:26	60.6	78.4
21-Aug-17	13:23:26	57.6	75.4
21-Aug-17	13:24:26	58.2	76
21-Aug-17	13:25:26	57.1	74.9
21-Aug-17	13:26:26	56.2	73.9

15-min Leq 59.1

Date	Time	Duration	Leq	ST-4 Intervals								
				SEL	Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21-Aug-17	13:11:26	900	59.1	88.6	69.8	54	66.2	62.8	62	58.7	57.1	55.3

Morena Corridor Specific Plan
Measurement Location ST-4
Monday, August 21, 2017



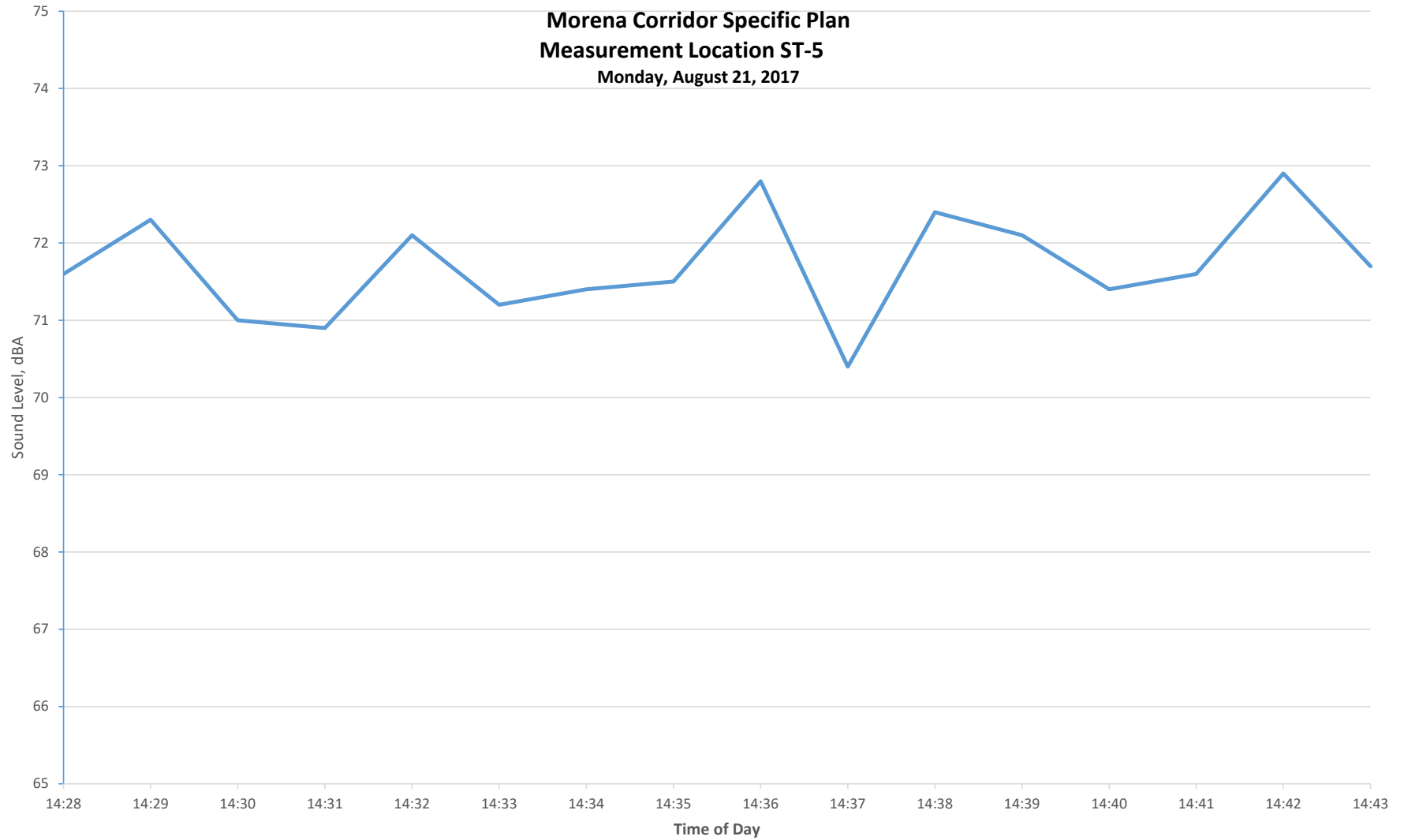
ST-5 Time History

Date	Time	Level	SEL
-----	-----	----	
21-Aug-17	14:28:22	71.6	89.4
21-Aug-17	14:29:22	72.3	90.1
21-Aug-17	14:30:22	71	88.7
21-Aug-17	14:31:22	70.9	88.7
21-Aug-17	14:32:22	72.1	89.9
21-Aug-17	14:33:22	71.2	89
21-Aug-17	14:34:22	71.4	89.1
21-Aug-17	14:35:22	71.5	89.3
21-Aug-17	14:36:22	72.8	90.6
21-Aug-17	14:37:22	70.4	88.1
21-Aug-17	14:38:22	72.4	90.2
21-Aug-17	14:39:22	72.1	89.9
21-Aug-17	14:40:22	71.4	89.2
21-Aug-17	14:41:22	71.6	89.4
21-Aug-17	14:42:22	72.9	90.6
21-Aug-17	14:43:22	71.7	89.5

15-min Leq 71.7

Date	Time	Duration	Leq	SEL	ST-5 Intervals							
					Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21-Aug-17	14:28:22	900	71.7	101.3	78.9	67.3	74.8	73.5	73.3	72.4	71.4	69.6

Morena Corridor Specific Plan
Measurement Location ST-5
Monday, August 21, 2017



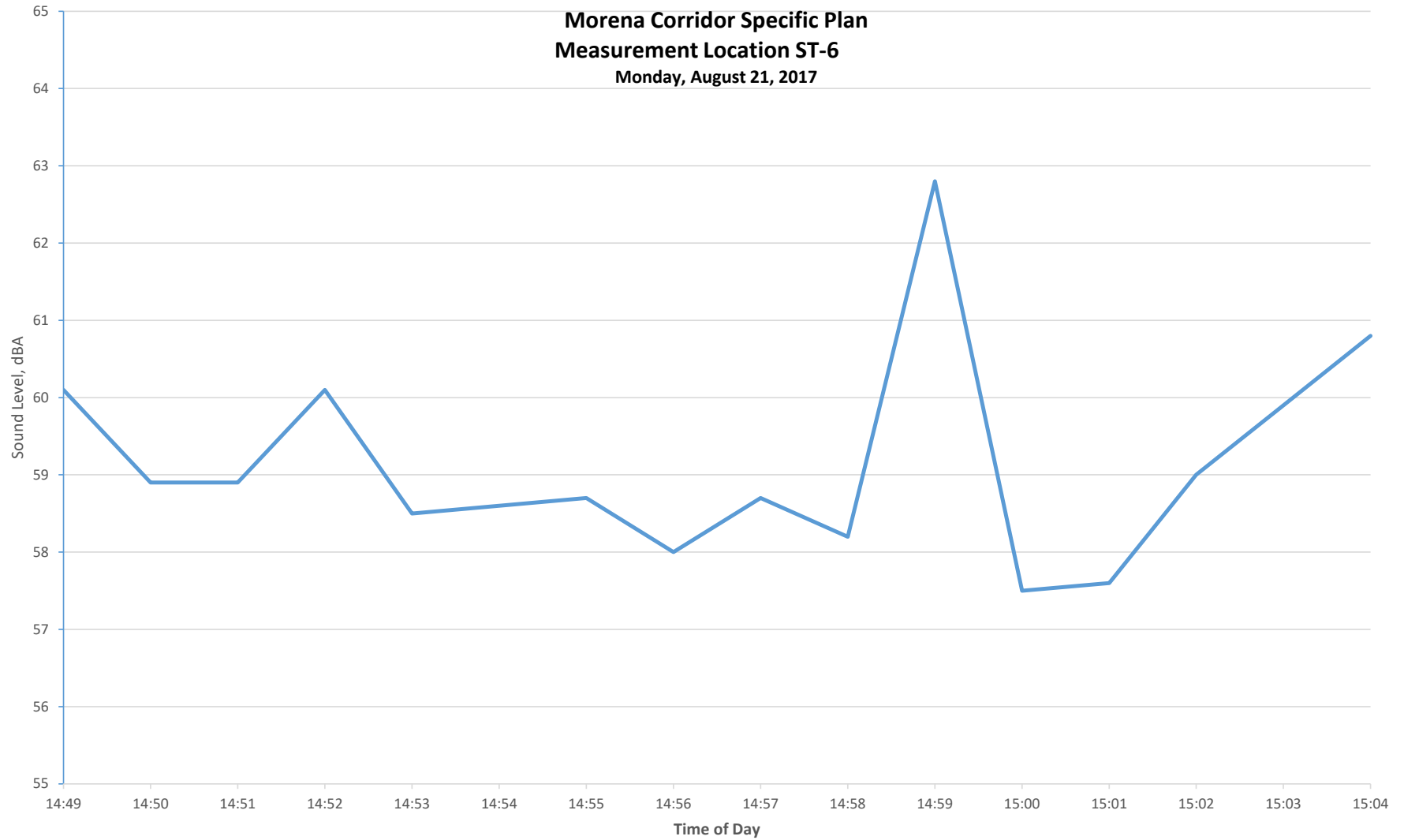
ST-6 Time History

Date	Time	Level	SEL
-----	-----	----	
21-Aug-17	14:49:08	60.1	77.9
21-Aug-17	14:50:08	58.9	76.7
21-Aug-17	14:51:08	58.9	76.7
21-Aug-17	14:52:08	60.1	77.8
21-Aug-17	14:53:08	58.5	76.3
21-Aug-17	14:54:08	58.6	76.4
21-Aug-17	14:55:08	58.7	76.4
21-Aug-17	14:56:08	58	75.7
21-Aug-17	14:57:08	58.7	76.5
21-Aug-17	14:58:08	58.2	76
21-Aug-17	14:59:08	62.8	80.6
21-Aug-17	15:00:08	57.5	75.3
21-Aug-17	15:01:08	57.6	75.4
21-Aug-17	15:02:08	59	76.8
21-Aug-17	15:03:08	59.9	77.7
21-Aug-17	15:04:08	60.8	78.6

15-min Leq 59.2

Date	Time	Duration	Leq	SEL	ST-6 Intervals							
					Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21-Aug-17	14:49:08	900	59.2	88.8	76.4	55.5	62.4	60.7	60.5	59.4	58.5	57.1

Morena Corridor Specific Plan
Measurement Location ST-6
Monday, August 21, 2017



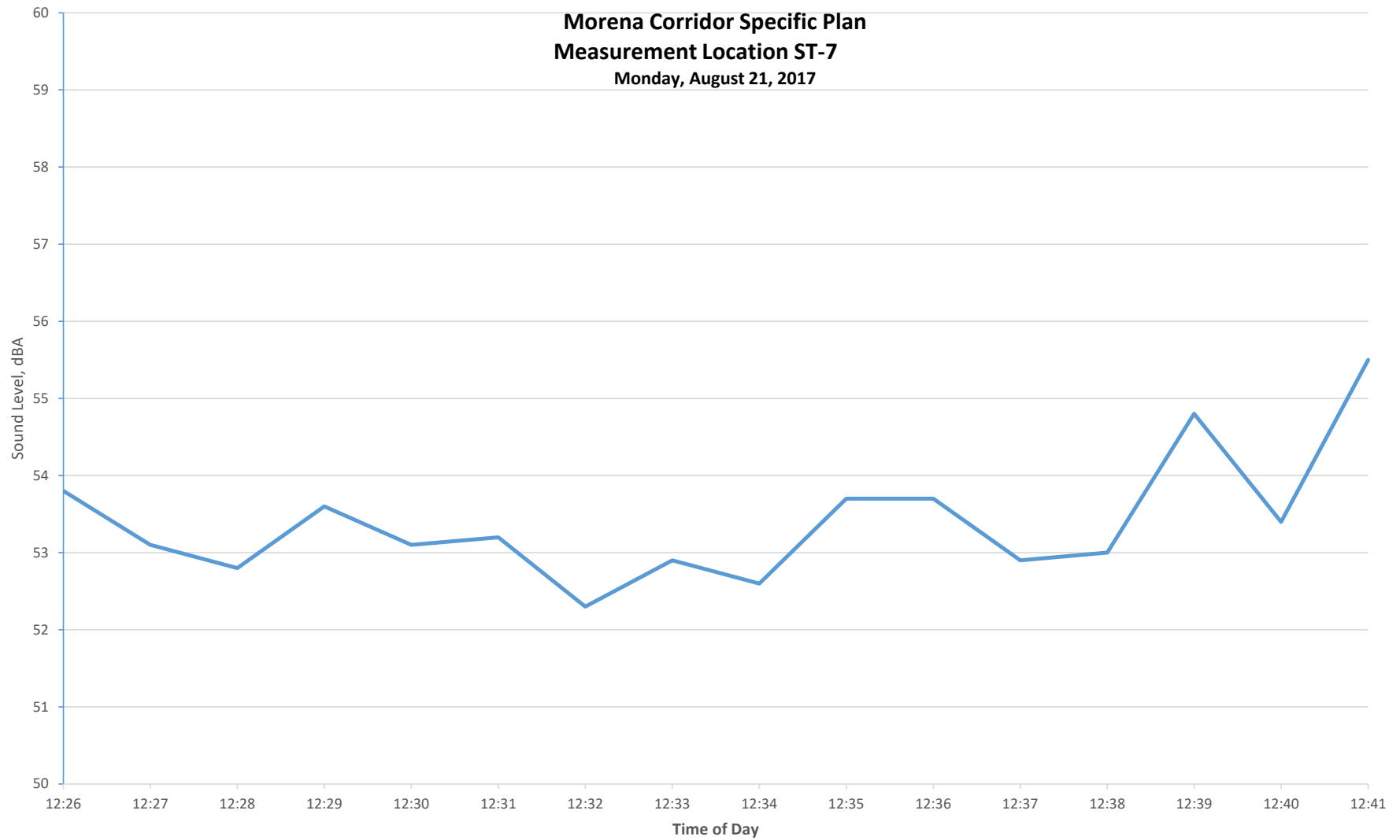
ST-7 Time History

Date	Time	Level	SEL
-----	-----	----	
21-Aug-17	12:26:15	53.8	71.6
21-Aug-17	12:27:15	53.1	70.9
21-Aug-17	12:28:15	52.8	70.6
21-Aug-17	12:29:15	53.6	71.4
21-Aug-17	12:30:15	53.1	70.9
21-Aug-17	12:31:15	53.2	71
21-Aug-17	12:32:15	52.3	70.1
21-Aug-17	12:33:15	52.9	70.7
21-Aug-17	12:34:15	52.6	70.4
21-Aug-17	12:35:15	53.7	71.5
21-Aug-17	12:36:15	53.7	71.4
21-Aug-17	12:37:15	52.9	70.7
21-Aug-17	12:38:15	53	70.8
21-Aug-17	12:39:15	54.8	72.6
21-Aug-17	12:40:15	53.4	71.2
21-Aug-17	12:41:15	55.5	73.3

15-min Leq 53.3

Date	Time	Duration	Leq	SEL	ST-7 Intervals							
					Lmax	Lmin	L(2)	L(8)	L(10)	L(25)	L(50)	L(90)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21-Aug-17	12:26:15	900	53.3	82.8	59	50.9	55.8	54.7	54.6	53.8	53	52

Morena Corridor Specific Plan
Measurement Location ST-7
Monday, August 21, 2017



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

Data Input Sheet

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Existing

Surface Refelction: CNEL
Assessment Metric: Hard
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
1	Gesner Street	Morena Boulevard to Denver Street	3,556	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
2	Clairemont Drive	I-5 NB Ramps to Denver Street	28,929	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
3	Ingulf Street	Morena Boulevard to Denver Street	5,185	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
4	Denver Street	Clairemont Drive to Ingulf Street	10,064	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
5	Morena Boulevard	North of Gesner Street	13,508	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
6	Morena Boulevard	Gesner Street to Ingulf Street	11,397	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
7	Morena Boulevard	Ingulf Street to Milton Street	14,805	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
8	Morena Boulevard	Milton Street to Ashton Street	16,362	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
9	Morena Boulevard	Ashton Street to W. Morena Boulevard	15,598	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
10	Morena Boulevard	W. Morena Boulevard to Knoxville Street	9,171	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
11	Morena Boulevard	Knoxville Street to Tecolote Road	17,469	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
12	Morena Boulevard	Tecolote Road to Buenos Avenue	16,020	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
13	Morena Boulevard	Buenos Avenue to W. Morena Boulevard	16,603	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
14	Morena Boulevard	W. Morena Boulevard to Napa Street	29,808	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
15	Morena Boulevard	Napa Street to Linda Vista Road	23,023	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
16	Morena Boulevard	South of Linda Vista Road	40,067	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
17	W. Morena Boulevard	Morena Boulevard to Vega Street	11,129	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
18	W. Morena Boulevard	Vega Street to Buenos Avenue	11,014	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
19	W. Morena Boulevard	Buenos Avenue to Morena Boulevard	13,312	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
20	Napa Street	Morena Boulevard to Linda Vista Road	24,812	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
21	Napa Street	Linda Vista Road to Riley Street	17,681	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
22	Napa Street	Riley Street to Friars Road	13,920	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
23	Milton Street	East of Morena Boulevard	3,821	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
24	Knoxville Street	Morena Boulevard to Savannah Street	1,149	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
25	Sea World Drive	Morena Boulevard to I-5 NB Ramps	24,513	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
26	Linda Vista Road	Morena Boulevard to Napa Street	22,603	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
27	Linda Vista Road	Napa Street to Marian Way	26,868	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
28	Friars Road	Napa Street to Colusa Street	19,550	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
29	Friars Road	West of Napa Street	9,355	50	50	96.30	2.40	1.30	80.00	10.00	10.00	

FHWA RD-77-108
Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Existing
Assessment Metric: Hard

Segment	Roadway	Segment	Noise Levels, dBA Hard				Distance to Traffic Noise Level Contours, Feet					
			Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
1	Gesner Street	Morena Boulevard to Denver Street	55.2	50.8	55.8	59	1	4	13	42	132	416
2	Clairemont Drive	I-5 NB Ramps to Denver Street	71.7	63.9	65.7	73	33	104	330	1,045	3,303	10,446
3	Ingulf Street	Morena Boulevard to Denver Street	56.9	52.5	57.4	61	2	6	19	62	195	615
4	Denver Street	Clairemont Drive to Ingulf Street	59.8	55.3	60.3	64	4	12	37	117	371	1,172
5	Morena Boulevard	North of Gesner Street	68.4	60.6	62.4	70	15	49	155	489	1,545	4,886
6	Morena Boulevard	Gesner Street to Ingulf Street	66.2	59.1	61.2	68	10	32	100	315	998	3,155
7	Morena Boulevard	Ingulf Street to Milton Street	67.3	60.2	62.4	69	13	41	129	406	1,285	4,064
8	Morena Boulevard	Milton Street to Ashton Street	67.8	60.6	62.8	70	14	46	144	456	1,442	4,560
9	Morena Boulevard	Ashton Street to W. Morena Boulevard	67.5	60.4	62.6	69	13	43	135	426	1,346	4,256
10	Morena Boulevard	W. Morena Boulevard to Knoxville Street	63.6	57.2	59.8	66	6	19	59	186	587	1,858
11	Morena Boulevard	Knoxville Street to Tecolote Road	66.4	60.0	62.6	69	11	35	112	354	1,119	3,540
12	Morena Boulevard	Tecolote Road to Buenos Avenue	66.0	59.6	62.2	68	10	33	104	330	1,045	3,303
13	Morena Boulevard	Buenos Avenue to W. Morena Boulevard	67.8	60.7	62.9	70	14	46	144	456	1,442	4,560
14	Morena Boulevard	W. Morena Boulevard to Napa Street	70.4	63.2	65.4	72	26	83	262	830	2,624	8,298
15	Morena Boulevard	Napa Street to Linda Vista Road	69.2	62.1	64.3	71	20	63	199	629	1,991	6,295
16	Morena Boulevard	South of Linda Vista Road	71.6	64.5	66.7	73	35	109	346	1,094	3,459	10,939
17	W. Morena Boulevard	Morena Boulevard to Vega Street	67.5	59.8	61.6	69	13	41	129	406	1,285	4,064
18	W. Morena Boulevard	Vega Street to Buenos Avenue	67.5	59.7	61.6	69	13	40	126	397	1,256	3,972
19	W. Morena Boulevard	Buenos Avenue to Morena Boulevard	68.3	60.5	62.4	70	15	49	155	489	1,545	4,886
20	Napa Street	Morena Boulevard to Linda Vista Road	63.7	59.3	64.2	68	9	29	93	294	931	2,944
21	Napa Street	Linda Vista Road to Riley Street	62.2	57.8	62.8	66	7	21	66	208	659	2,084
22	Napa Street	Riley Street to Friars Road	61.2	56.8	61.7	65	5	16	51	162	512	1,618
23	Milton Street	East of Morena Boulevard	55.6	51.1	56.1	60	1	4	14	45	141	446
24	Knoxville Street	Morena Boulevard to Savannah Street	54.5	48.2	50.7	57	1	2	7	23	74	234
25	Sea World Drive	Morena Boulevard to I-5 NB Ramps	69.5	62.4	64.6	71	21	67	213	674	2,133	6,745
26	Linda Vista Road	Morena Boulevard to Napa Street	67.5	61.1	63.7	70	15	47	148	467	1,476	4,666
27	Linda Vista Road	Napa Street to Marian Way	69.9	62.8	65.0	72	23	74	234	740	2,339	7,396
28	Friars Road	Napa Street to Colusa Street	70.0	62.2	64.0	72	22	71	223	706	2,233	7,063
29	Friars Road	West of Napa Street	68.1	59.7	61.3	69	14	44	138	435	1,377	4,355

FHWA RD-77-108
Traffic Noise Prediction Model

Data Input Sheet

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Existing

Surface Refelction: CNEL
Assessment Metric: Soft
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
30	I-5	Grand Avenue/Garnet Avenue to Clairemont Drive	162,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
31	I-5	Clairemont Drive to Sea World Drive/Tecolote Road	221,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
32	I-5	Sea World Drive/Tecolote Road to I-8	205,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
33	I-5	I-8 to Old Town Avenue	203,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
34	I-8	Sports Arena Boulevard to I-5	102,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
35	I-8	I-5 to Morena Boulevard	131,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
36	I-8	Morena Boulevard to Hotel Circle	187,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	

FHWA RD-77-108
Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Existing
Assessment Metric: Soft

Segment	Roadway	Segment	Noise Levels, dBA Soft				Distance to Traffic Noise Level Contours, Feet					
			Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
30	I-5	Grand Avenue/Garnet Avenue to Clairemont Drive	83.8	73.9	74.7	85	222	477	1,029	2,216	4,775	10,287
31	I-5	Clairemont Drive to Sea World Drive/Tecolote Road	85.1	75.2	76.0	86	271	583	1,256	2,706	5,830	12,559
32	I-5	Sea World Drive/Tecolote Road to I-8	84.8	74.9	75.7	86	258	557	1,199	2,584	5,567	11,994
33	I-5	I-8 to Old Town Avenue	84.8	74.9	75.7	86	254	548	1,181	2,545	5,482	11,811
34	I-8	Sports Arena Boulevard to I-5	81.8	71.9	72.7	83	163	351	757	1,630	3,513	7,568
35	I-8	I-5 to Morena Boulevard	82.9	73.0	73.8	84	190	410	882	1,901	4,095	8,823
36	I-8	Morena Boulevard to Hotel Circle	84.4	74.5	75.3	85	243	524	1,128	2,430	5,236	11,280

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

Data Input Sheet

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Preferred Plan 2035

Surface Refelction: CNEL
Assessment Metric: Hard
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
1	Gesner Street	Morena Boulevard to Denver Street	4,100	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
2	Clairemont Drive	I-5 NB Ramps to Denver Street	35,400	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
3	Ingulf Street	Morena Boulevard to Denver Street	5,200	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
4	Denver Street	Clairemont Drive to Ingulf Street	11,400	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
5	Morena Boulevard	North of Gesner Street	12,900	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
6	Morena Boulevard	Gesner Street to Ingulf Street	11,200	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
7	Morena Boulevard	Ingulf Street to Milton Street	17,100	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
8	Morena Boulevard	Milton Street to Ashton Street	14,700	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
9	Morena Boulevard	Ashton Street to W. Morena Boulevard	16,100	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
10	Morena Boulevard	W. Morena Boulevard to Knoxville Street	9,200	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
11	Morena Boulevard	Knoxville Street to Tecolote Road	18,100	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
12	Morena Boulevard	Tecolote Road to Buenos Avenue	25,100	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
13	Morena Boulevard	Buenos Avenue to W. Morena Boulevard - SEGMENT REMOVED	0	40	50		2.40	1.30	80.00	10.00		
14	Morena Boulevard	Buenos Avenue to Cushman Avenue - NEW SEGMENT	17,600	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
15	Morena Boulevard	Cushman Avenue to Sherman Street - NEW SEGMENT	22,400	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
16	Morena Boulevard	Sherman Street to Linda Vista Road - NEW SEGMENT	18,200	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
17	W. Morena Boulevard	Morena Boulevard to Vega Street	12,000	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
18	W. Morena Boulevard	Vega Street to Buenos Avenue	13,400	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
19	W. Morena Boulevard	Buenos Avenue to Cushman Avenue	11,900	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
20	W. Morena Boulevard	Cushman Avenue to Sherman Street	12,000	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
21	W. Morena Boulevard	Sherman Street to Linda Vista Road	33,200	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
22	Morena Boulevard	South of Linda Vista Road	50,800	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
23	Napa Street	Morena Boulevard to Linda Vista Road - CLOSED TO VEHICULAR TRAFFIC	0	45	50		2.40	1.30	80.00	10.00		
24	Napa Street	Linda Vista Road to Riley Street	22,300	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
25	Napa Street	Riley Street to Friars Road	14,800	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
26	Milton Street	East of Morena Boulevard	3,800	25	50	96.30	2.40	1.30	80.00	10.00	10.00	
27	Knoxville Street	Morena Boulevard to Savannah Street	1,700	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
28	Sea World Drive	Morena Boulevard to I-5 NB Ramps	30,300	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
29	Linda Vista Road	Morena Boulevard to Napa Street	28,100	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
30	Linda Vista Road	Napa Street to Marian Way	26,900	40	50	96.30	2.40	1.30	80.00	10.00	10.00	
31	Friars Road	Napa Street to Colusa Street	16,900	45	50	96.30	2.40	1.30	80.00	10.00	10.00	
32	Friars Road	West of Napa Street	20,500	50	50	96.30	2.40	1.30	80.00	10.00	10.00	
33	Cushman Avenue	W. Morena Boulevard to Morena Boulevard - NEW SEGMENT	6,500	35	50	96.30	2.40	1.30	80.00	10.00	10.00	
34	Sherman Street	W. Morena Boulevard to Morena Boulevard - NEW SEGMENT	8,300	35	50	96.30	2.40	1.30	80.00	10.00	10.00	

FHWA RD-77-108
Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Preferred Plan 2035
Assessment Metric: Hard

Segment	Roadway	Segment	Noise Levels, dBA Hard					Distance to Traffic Noise Level Contours, Feet				
			Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
1	Gesner Street	Morena Boulevard to Denver Street	55.9	51.4	56.4	60	2	5	15	48	151	477
2	Clairemont Drive	I-5 NB Ramps to Denver Street	72.6	64.8	66.6	74	41	129	406	1,285	4,064	12,852
3	Ingulf Street	Morena Boulevard to Denver Street	56.9	52.5	57.4	61	2	6	19	62	195	615
4	Denver Street	Clairemont Drive to Ingulf Street	60.3	55.9	60.9	64	4	13	43	135	426	1,346
5	Morena Boulevard	North of Gesner Street	68.2	60.4	62.2	70	15	47	148	467	1,476	4,666
6	Morena Boulevard	Gesner Street to Ingulf Street	66.1	59.0	61.2	68	10	31	97	308	975	3,083
7	Morena Boulevard	Ingulf Street to Milton Street	67.9	60.8	63.0	70	15	47	148	467	1,476	4,666
8	Morena Boulevard	Milton Street to Ashton Street	67.3	60.2	62.3	69	13	41	129	406	1,285	4,064
9	Morena Boulevard	Ashton Street to W. Morena Boulevard	67.7	60.6	62.7	70	14	45	141	446	1,409	4,456
10	Morena Boulevard	W. Morena Boulevard to Knoxville Street	63.6	57.2	59.8	66	6	19	59	186	587	1,858
11	Morena Boulevard	Knoxville Street to Tecolote Road	66.5	60.2	62.7	69	12	37	117	371	1,172	3,707
12	Morena Boulevard	Tecolote Road to Buenos Avenue	67.9	61.6	64.1	70	16	51	162	512	1,618	5,116
13	Morena Boulevard	Buenos Avenue to W. Morena Boulevard - SEGMENT REMOVED										
14	Morena Boulevard	Buenos Avenue to Cushman Avenue - NEW SEGMENT	68.1	61.0	63.1	70	15	49	155	489	1,545	4,886
15	Morena Boulevard	Cushman Avenue to Sherman Street - NEW SEGMENT	69.1	62.0	64.2	71	19	62	195	615	1,945	6,151
16	Morena Boulevard	Sherman Street to Linda Vista Road - NEW SEGMENT	68.2	61.1	63.3	70	16	50	158	500	1,581	5,000
17	W. Morena Boulevard	Morena Boulevard to Vega Street	67.9	60.1	61.9	69	14	44	138	435	1,377	4,355
18	W. Morena Boulevard	Vega Street to Buenos Avenue	68.4	60.6	62.4	70	15	49	155	489	1,545	4,886
19	W. Morena Boulevard	Buenos Avenue to Cushman Avenue	67.8	60.1	61.9	69	14	44	138	435	1,377	4,355
20	W. Morena Boulevard	Cushman Avenue to Sherman Street	67.9	60.1	61.9	69	14	44	138	435	1,377	4,355
21	W. Morena Boulevard	Sherman Street to Linda Vista Road	72.3	64.5	66.3	74	38	120	379	1,199	3,793	11,994
22	Morena Boulevard	South of Linda Vista Road	72.7	65.6	67.7	75	45	141	446	1,409	4,456	14,092
23	Napa Street	Morena Boulevard to Linda Vista Road - CLOSED TO VEHICULAR TRAFFIC										
24	Napa Street	Linda Vista Road to Riley Street	63.2	58.8	63.8	67	8	26	83	262	830	2,624
25	Napa Street	Riley Street to Friars Road	61.4	57.0	62.0	65	5	17	55	173	548	1,734
26	Milton Street	East of Morena Boulevard	55.5	51.1	56.1	60	1	4	14	45	141	446
27	Knoxville Street	Morena Boulevard to Savannah Street	56.2	49.9	52.4	58	1	3	11	35	109	346
28	Sea World Drive	Morena Boulevard to I-5 NB Ramps	70.4	63.3	65.5	72	26	83	262	830	2,624	8,298
29	Linda Vista Road	Morena Boulevard to Napa Street	68.4	62.1	64.6	71	18	57	182	574	1,815	5,741
30	Linda Vista Road	Napa Street to Marian Way	69.9	62.8	65.0	72	23	74	234	740	2,339	7,396
31	Friars Road	Napa Street to Colusa Street	69.4	61.6	63.4	71	19	62	195	615	1,945	6,151
32	Friars Road	West of Napa Street	71.5	63.1	64.7	73	30	95	301	953	3,013	9,527
33	Cushman Avenue	W. Morena Boulevard to Morena Boulevard - NEW SEGMENT	62.1	55.7	58.3	64	4	13	42	132	416	1,315
34	Sherman Street	W. Morena Boulevard to Morena Boulevard - NEW SEGMENT	63.1	56.8	59.3	65	5	17	54	169	536	1,694

FHWA RD-77-108
Traffic Noise Prediction Model

Data Input Sheet

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Preferred Plan 2035

Surface Refelction: CNEL
Assessment Metric: Soft
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
35	I-5	Grand Avenue/Garnet Avenue to Clairemont Drive	197,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
36	I-5	Clairemont Drive to Sea World Drive/Tecolote Road	236,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
37	I-5	Sea World Drive/Tecolote Road to I-8	223,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
38	I-5	I-8 to Old Town Avenue	236,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
39	I-8	Sports Arena Boulevard to I-5	118,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
40	I-8	I-5 to Morena Boulevard	154,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	
41	I-8	Morena Boulevard to Hotel Circle	220,000	65	50	96.30	2.40	1.30	80.00	10.00	10.00	

FHWA RD-77-108
Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : Morena Corridor Specific Plan
Project Number : 9051
Modeled Condition : Preferred Plan 2035
Assessment Metric: Soft

Segment	Roadway	Segment	Noise Levels, dBA Soft				Distance to Traffic Noise Level Contours, Feet					
			Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
35	I-5	Grand Avenue/Garnet Avenue to Clairemont Drive	84.6	74.7	75.5	86	251	540	1,163	2,506	5,399	11,632
36	I-5	Clairemont Drive to Sea World Drive/Tecolote Road	85.4	75.5	76.3	86	283	610	1,315	2,833	6,104	13,151
37	I-5	Sea World Drive/Tecolote Road to I-8	85.2	75.3	76.1	86	275	592	1,275	2,748	5,920	12,754
38	I-5	I-8 to Old Town Avenue	85.4	75.5	76.3	86	283	610	1,315	2,833	6,104	13,151
39	I-8	Sports Arena Boulevard to I-5	82.4	72.5	73.3	83	179	385	830	1,788	3,852	8,298
40	I-8	I-5 to Morena Boulevard	83.6	73.7	74.5	84	212	456	982	2,117	4,560	9,824
41	I-8	Morena Boulevard to Hotel Circle	85.1	75.2	76.0	86	271	583	1,256	2,706	5,830	12,559