

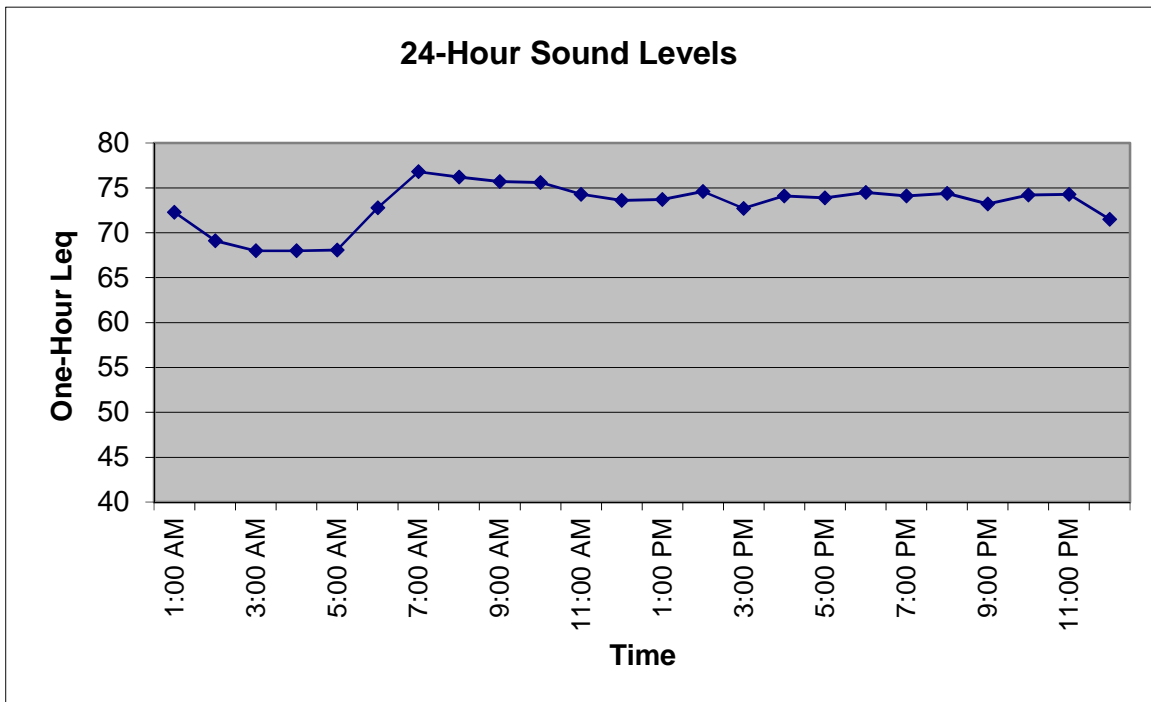
APPENDIX E: NOISE SUPPORTING INFORMATION

APPENDIX E-1
LONG-TERM METER DATA

LT-1 Meter Data	Rec 1 to 28	Slow Response	dBA weighting		1.0 dB resolution stats														
	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%	L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
Long Term	6/19/2018 10:09	1.0 hour	74.5	110.1	94.8	57.9	83	79	77	71	63	61	59	71	70.5	5.65	81	78	75
	6/19/2018 11:09	1.0 hour	73.4	109	86.8	58.3	81	78	77	70	63	61	60	70	69.8	5.34	80	77	74
	6/19/2018 12:09	1.0 hour	73.7	109.3	91	58.3	82	78	77	70	63	61	60	70	69.9	5.44	80	77	74
	6/19/2018 13:09	1.0 hour	74.6	110.2	96.6	59.7	83	78	77	70	63	62	61	70	70.2	5.58	81	78	75
	6/19/2018 14:09	1.0 hour	72.7	108.3	83.1	59.8	80	77	76	70	63	62	60	70	69.6	5.01	79	77	74
	6/19/2018 15:09	1.0 hour	74.1	109.7	90.3	59.3	81	79	77	71	63	62	60	71	70.5	5.53	80	78	75
	6/19/2018 16:09	1.0 hour	73.9	109.5	90.7	59.9	81	78	77	70	63	62	60	70	70.4	5.31	80	78	75
	6/19/2018 17:09	1.0 hour	74.5	110.1	87.9	58.9	82	79	78	71	63	62	60	71	70.7	5.76	81	78	76
	6/19/2018 18:09	1.0 hour	74.1	109.7	87.9	57.1	81	79	78	70	61	60	58	70	69.8	6.38	80	78	75
	6/19/2018 19:09	1.0 hour	74.4	110	87.9	56.8	82	80	79	69	61	60	58	69	69.6	6.51	81	79	76
	6/19/2018 20:09	1.0 hour	73.2	108.8	85.5	56.7	81	79	77	68	61	59	57	68	68.8	6.21	80	78	74
	6/19/2018 21:09	1.0 hour	74.2	109.8	93.8	56.7	82	79	78	69	60	59	57	69	69	6.48	81	78	74
	6/19/2018 22:09	1.0 hour	74.3	109.9	96.5	55.1	82	79	78	68	59	58	56	68	68.2	7.09	81	78	74
	6/19/2018 23:09	1.0 hour	71.5	107.1	83.8	53.1	81	78	76	64	57	56	54	64	65.4	7.08	80	77	71
	6/20/2018 0:09	1.0 hour	72.3	107.9	92.8	51.8	83	78	76	63	55	54	52	63	64.5	7.67	81	76	70
	6/20/2018 1:09	1.0 hour	69.1	104.7	87.2	47.6	80	76	72	59	53	52	49	59	61	7.48	79	73	66
	6/20/2018 2:09	1.0 hour	68	103.6	87.4	49.6	79	74	71	59	53	52	51	59	60.5	7.15	78	73	65
	6/20/2018 3:09	1.0 hour	68	103.6	89.5	49.3	80	74	70	58	53	51	50	58	59.9	6.88	78	71	64
	6/20/2018 4:09	1.0 hour	68.1	103.7	86.1	50.6	80	74	70	59	55	54	52	59	61	6.25	78	72	64
	6/20/2018 5:09	1.0 hour	72.8	108.4	86.6	53.3	82	80	77	65	59	58	56	65	66.4	6.78	82	78	71
	6/20/2018 6:09	1.0 hour	76.8	112.4	88	58.1	83	81	81	73	62	61	59	73	72.1	7.05	82	81	78
	6/20/2018 7:09	1.0 hour	76.2	111.8	90.9	59.2	84	81	80	72	64	62	60	72	71.9	6.19	83	80	78
Quietest Hour Lmin	6/20/2018 8:09	1.0 hour	75.7	111.3	88	59.3	83	80	79	72	64	62	60	72	71.8	5.82	82	80	77
47.6	6/20/2018 9:09	1.0 hour	75.6	111.2	89.9	59	84	80	79	71	63	62	60	71	71.3	6.01	82	79	77
Loudest Hour Lmax	6/20/2018 10:09	1.0 hour	74.3	109.9	86.9	57.6	81	79	78	70	62	61	59	70	70.3	5.89	80	78	76
96.6	6/20/2018 11:09	1.0 hour	73.6	109.2	92	56	81	79	77	69	62	60	59	69	69.5	5.95	80	78	75
Loudest Hour LEQ	6/20/2018 12:09	1.0 hour	73.7	109.3	90.1	58	81	78	77	70	62	61	59	70	69.9	5.71	80	78	75
76.80	6/20/2018 13:09	23.7 min	75.2	106.7	94.2	53.7	86	81	78	68	60	58	54	68	68.5	6.78	84	79	72

Ldn/CNEL Calculation Spreadsheet

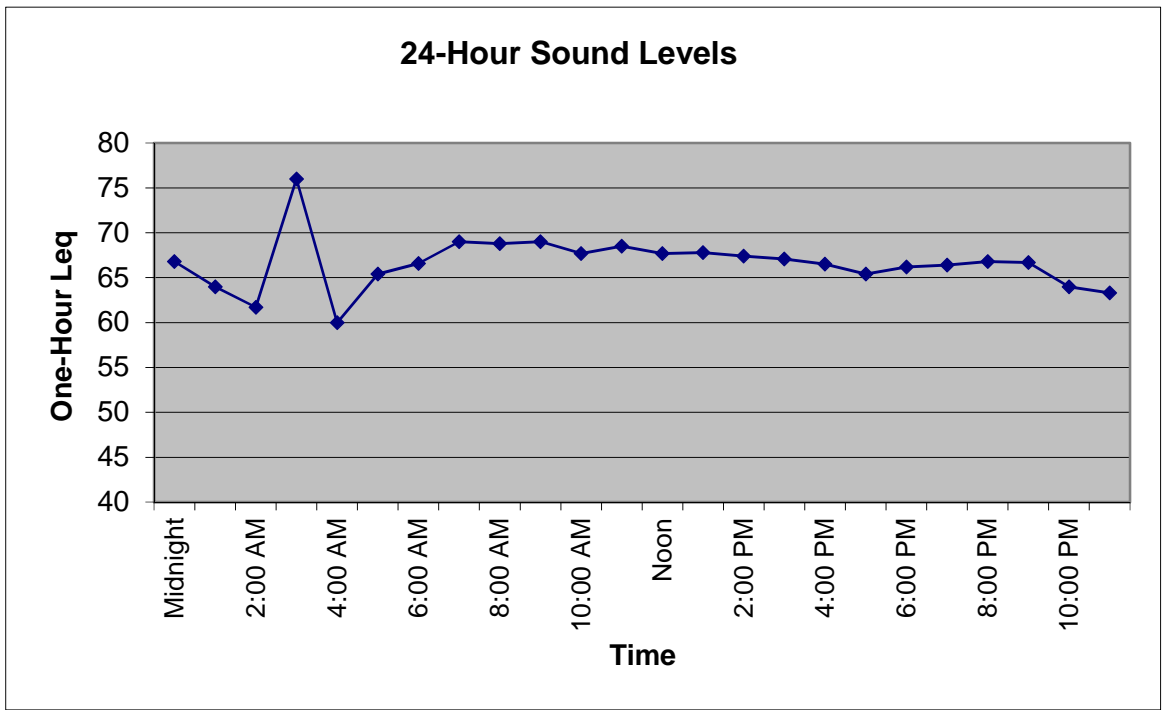
Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-1		Tuesday to Wednesday		Worst Hour	Ldn minus	CNEL minus			
Time	6/19/2018	Leq(24)	Ldn	CNEL	Leq	Worst Hour Leq	Ldn	Day	12-hour LEQ
Midnight	72.3	73.7	79.1	79.4	76.8	2.3	0.3	Evening	74.5
1:00 AM	69.1		2.9	3.2			Night		
2:00 AM	68								
3:00 AM	68								
4:00 AM	68.1								
5:00 AM	72.8								
6:00 AM	76.8								
7:00 AM	76.2								
8:00 AM	75.7								
9:00 AM	75.6								
10:00 AM	74.3								
11:00 AM	73.6								
Noon	73.7								
1:00 PM	74.6								
2:00 PM	72.7								
3:00 PM	74.1								
4:00 PM	73.9								
5:00 PM	74.5								
6:00 PM	74.1								
7:00 PM	74.4								
8:00 PM	73.2								
9:00 PM	74.2								
10:00 PM	74.3								
11:00 PM	71.5								



LT-2 Meter Data	Rec 3 to 30		Fast Response		dBA weighting		1.0 dB resolution stats												
	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%	L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
Long Term	6/19/2018 9:53	1.0 hour	69.3	104.9	92.2	54.3	78	73	71	66	60	58	56	66	65.8	4.53	76	72	69
	6/19/2018 10:53	1.0 hour	70.4	106	97.3	54.8	78	73	71	66	61	60	58	66	66.1	4.1	75	72	68
	6/19/2018 11:53	1.0 hour	67.7	103.3	90.4	54.9	76	71	70	65	59	58	57	65	64.7	4.17	74	70	67
	6/19/2018 12:53	1.0 hour	67.8	103.4	89	55.9	76	72	70	65	60	59	58	65	65.2	3.82	74	70	67.2
	6/19/2018 13:53	1.0 hour	67.4	103	89.5	56.4	75	70	69	65	60	59	58	65	64.7	3.63	73	69	67
	6/19/2018 14:53	1.0 hour	67.1	102.7	95.8	54.2	77	71	69	63	57	57	56	63	63.1	4.6	74	69	66
	6/19/2018 15:53	1.0 hour	66.5	102.1	91	53.9	75	70	68	63	57	56	55	63	62.7	4.6	72	69	66
	6/19/2018 16:53	1.0 hour	65.4	101	84.8	52.7	73	70	68	62	57	56	55	62	62.5	4.32	72	68	66
	6/19/2018 17:53	1.0 hour	66.2	101.8	95.7	53.2	75	70	69	63	57	56	55	63	62.7	4.66	73	69	66
	6/19/2018 18:53	1.0 hour	66.4	102	84.7	52.9	75	71	70	62	57	56	55	62	63	4.88	73	70	67
	6/19/2018 19:53	1.0 hour	66.8	102.4	91.8	53.2	75	71	69	62	57	56	55	62	62.6	5.06	73	70	67
	6/19/2018 20:53	1.0 hour	66.7	102.3	89.8	52.8	76	71	69	61	56	55	54	61	62.2	5.28	74	70	66
	6/19/2018 21:53	1.0 hour	64	99.6	85.2	51.5	72	69	67	59	56	55	53	59	60.4	4.63	71	68	64
	6/19/2018 22:53	1.0 hour	63.3	98.9	80.3	51.3	72	69	67	58	54	54	53	58	59.4	4.97	71	68	63
	6/19/2018 23:53	1.0 hour	66.8	102.4	97.9	48.7	75	67	65	55	52	51	50	55	57	5.46	70	66	60
	6/20/2018 0:53	1.0 hour	64	99.6	89.3	49	75	68	66	56	52	51	50	56	57.5	5.75	71	67	61
	6/20/2018 1:53	1.0 hour	61.7	97.3	87.1	47.4	72	66	64	53	50	49	49	53	55.1	5.55	69	64	58
	6/20/2018 2:53	1.0 hour	76	111.6	107	47	78	66	62	53	50	49	48	53	54.7	5.98	71	63	56
	6/20/2018 3:53	1.0 hour	60	95.6	83.6	48.1	70	65	61	54	51	51	50	54	55.2	4.43	68	62	57
	6/20/2018 4:53	1.0 hour	65.4	101	90.2	50	77	70	67	58	53	53	52	58	59.2	5.53	72	68	62
	6/20/2018 5:53	1.0 hour	66.6	102.2	93.4	51.3	75	71	70	62	55	54	53	62	62.2	5.59	73	70	66
	6/20/2018 6:53	1.0 hour	69	104.6	96.9	53.9	76	72	71	65	59	58	56	65	65.4	4.56	75	71	69
Quietest Hour Lmin	6/20/2018 7:53	1.0 hour	68.8	104.4	87.9	58.2	76	73	71	66	63	62	60	66	66.7	3.41	74	72	69
47.0	6/20/2018 8:53	1.0 hour	69	104.6	91.7	57	78	73	71	66	61	60	59	66	65.9	4.01	75	71	68
Loudest Hour Lmax	6/20/2018 9:53	1.0 hour	67.7	103.3	89.4	55.3	77	71	70	65	60	59	57	65	64.7	4.11	74	70	67
107.0	6/20/2018 10:53	1.0 hour	68.5	104.1	90.6	56.4	77	72	70	65	61	60	58	65	65.3	3.85	74	70	68
Loudest Hour LEQ	6/20/2018 11:53	1.0 hour	67.7	103.3	90.5	55.1	77	71	69	64	59	58	57	64	64.2	4.25	75	70	67
76.00	6/20/2018 12:53	38.9 min	73.3	107	99.8	52.3	84	78	75	67	59	57	55	67	67.3	6.12	81	76	71

Ldn/CNEL Calculation Spreadsheet

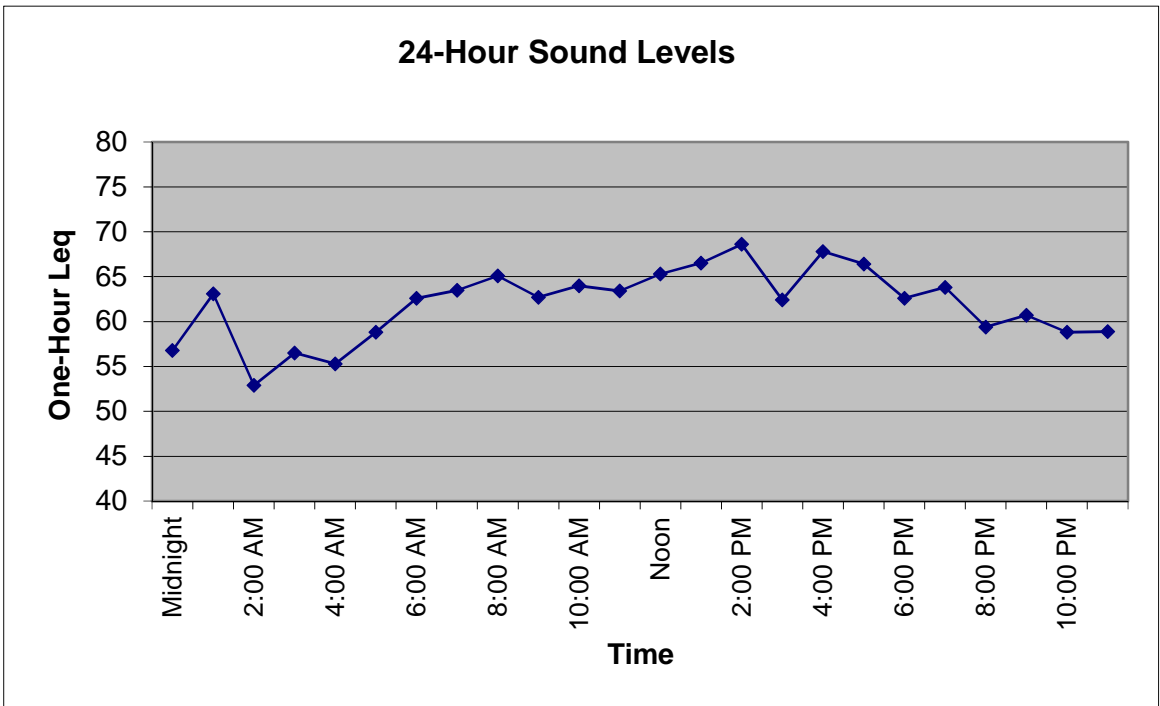
Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-2									
Tuesday to Wednesday									
Time	6/19/2018	Leq(24)	Ldn	CNEL	Worst Hour Leq	Ldn minus Worst Hour Leq	CNEL minus Ldn	Day	12-hour LEQ
Midnight	66.8	67.9	74.7	74.9	76.0	-1.3	0.2	Evening	67.7
1:00 AM	64		5.7	5.9			Night		
2:00 AM	61.7								
3:00 AM	76								
4:00 AM	60								
5:00 AM	65.4								
6:00 AM	66.6								
7:00 AM	69								
8:00 AM	68.8								
9:00 AM	69								
10:00 AM	67.7								
11:00 AM	68.5								
Noon	67.7								
1:00 PM	67.8								
2:00 PM	67.4								
3:00 PM	67.1								
4:00 PM	66.5								
5:00 PM	65.4								
6:00 PM	66.2								
7:00 PM	66.4								
8:00 PM	66.8								
9:00 PM	66.7								
10:00 PM	64								
11:00 PM	63.3								



LT-3 Meter Data Long Term	Rec 3 to 30	Fast Response	dBA weighting		1.0 dB resolution stats				L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%											
	6/19/2018 10:23	1.0 hour	66.8	102.4	95.6	54.2	76	69	66	59	56	55	55	59	60.1	4.4	72	67	62
	6/19/2018 11:23	1.0 hour	64.8	100.4	85.4	54.8	75	69	67	60	57	56	56	60	60.7	4.17	73	67	62
	6/19/2018 12:23	1.0 hour	65.3	100.9	87.8	54.8	75	68	66	59	56	56	55	59	60.4	4.21	72	67	62
	6/19/2018 13:23	1.0 hour	66.5	102.1	91.3	54.9	77	71	69	60	57	57	55	60	61.5	4.86	75	70	64
	6/19/2018 14:23	1.0 hour	68.6	104.2	94	55.8	79	74	70	60	57	57	56	60	62.1	5.39	78	71	64
	6/19/2018 15:23	1.0 hour	62.4	98	84.5	55.4	72	67	64	58	56	56	56	58	59.5	3.51	69	65	61
	6/19/2018 16:23	1.0 hour	67.8	103.4	92.3	55.1	76	75	70	60	57	56	55	60	61.5	5.44	76	73	63
	6/19/2018 17:23	1.0 hour	66.4	102	93.2	54.3	74	69	66	59	56	56	55	59	60.4	4.29	72	67	62
	6/19/2018 18:23	1.0 hour	62.6	98.2	77.7	53.9	71	68	66	59	55	55	54	59	59.7	3.94	70	66	62
	6/19/2018 19:23	1.0 hour	63.8	99.4	87.9	52	73	68	65	58	54	54	52	58	58.8	4.55	71	66	61
	6/19/2018 20:23	1.0 hour	59.4	95	76.9	50.6	68	64	62	56	53	52	52	56	56.7	3.66	66	63	59
	6/19/2018 21:23	1.0 hour	60.7	96.3	83.2	50.4	70	65	63	56	53	52	51	56	57	4.26	68	64	59
	6/19/2018 22:23	1.0 hour	58.8	94.4	81	49.5	69	62	60	55	52	51	50	55	55.6	3.74	66	61	58
	6/19/2018 23:23	1.0 hour	58.9	94.5	81	48.1	70	62	59	52	50	49	49	52	53.6	4.31	67	60	55
	6/20/2018 0:23	1.0 hour	56.8	92.4	82.5	47.5	67	60	57	51	49	48	48	51	52.3	3.83	63	58	54
	6/20/2018 1:23	1.0 hour	63.1	98.7	92.9	46.3	74	63	58	51	48	48	47	51	52.2	5.23	70	59	53
	6/20/2018 2:23	1.0 hour	52.9	88.5	68.1	46.2	61	57	55	50	48	47	47	50	50.8	3.16	60	56	52
	6/20/2018 3:23	1.0 hour	56.5	92.1	78.4	46.9	67	60	57	51	49	48	47	51	52	3.91	64	58	53
	6/20/2018 4:23	1.0 hour	55.3	90.9	75.2	47.7	65	59	57	52	49	49	48	52	52.4	3.38	63	57	54
	6/20/2018 5:23	1.0 hour	58.8	94.4	80.8	49.2	69	62	60	55	51	51	50	55	55.3	3.75	66	60	57
	6/20/2018 6:23	1.0 hour	62.6	98.2	84.5	53.8	73	68	64	57	55	55	54	57	58.6	4.05	71	65	60
Quietest Hour Lmin	6/20/2018 7:23	1.0 hour	63.5	99.1	87.1	54.7	73	68	65	58	56	56	55	58	59.4	4.02	71	66	61
46.2	6/20/2018 8:23	1.0 hour	65.1	100.7	89.4	54.7	74	68	66	59	56	56	55	59	60.2	4.14	71	67	62
Loudest Hour Lmax	6/20/2018 9:23	1.0 hour	62.7	98.3	84.2	54.6	72	68	65	59	56	56	55	59	59.6	3.73	70	66	61
94.0	6/20/2018 10:23	1.0 hour	64	99.6	84	54.9	74	68	66	59	56	56	55	59	60.2	4.04	71	67	62
Loudest Hour LEQ	6/20/2018 11:23	1.0 hour	63.4	99	82	55	73	68	65	59	57	56	55	59	60.2	3.73	71	66	62
68.60	6/20/2018 12:23	1.0 hour	66.3	101.9	87.8	53.2	79	70	67	59	56	56	55	59	60.5	4.8	75	68	62
	6/20/2018 13:23	7.9 min	73.4	100.1	92.6	53.4	85	79	76	66	61	59	55	66	67.2	5.94	82	77	70

Ldn/CNEL Calculation Spreadsheet

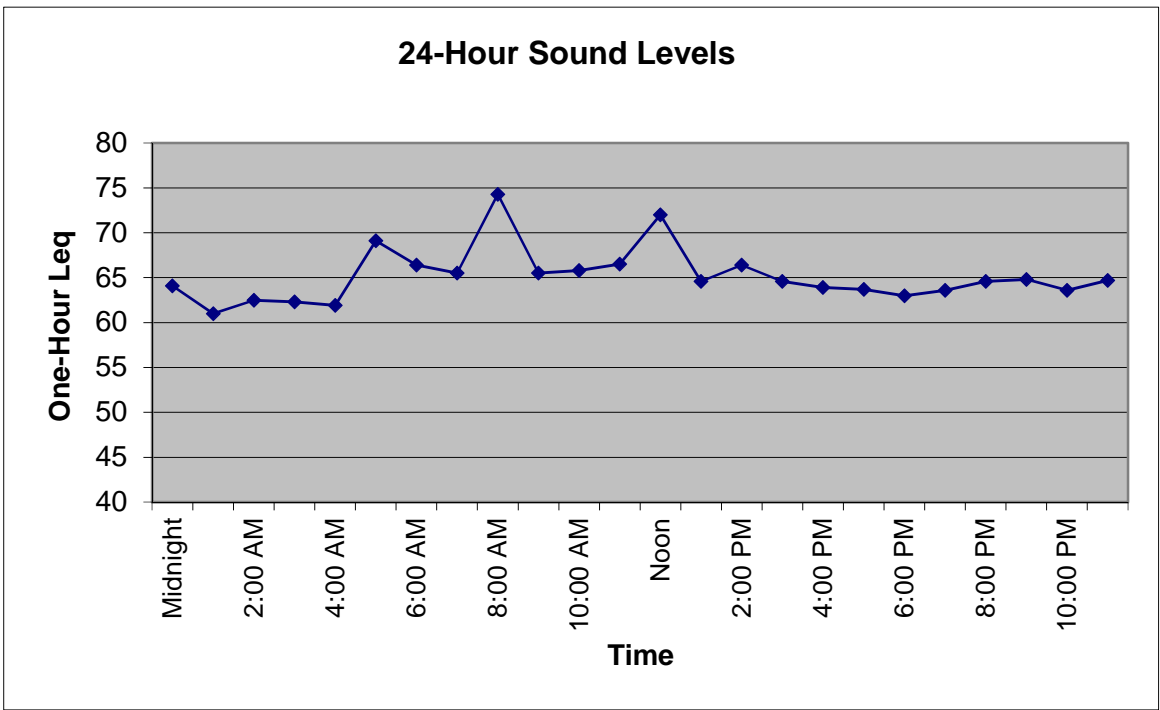
Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-3		NEW LT-3							
Tuesday to Wednesday				Worst Hour	Ldn minus	CNEL minus			
Time	6/19/2018	Leq(24)	Ldn	CNEL	Leq	Worst Hour Leq	Ldn	Day	12-hour LEQ
Midnight	56.8	63.5	67.0	67.4	68.6	-1.6	0.3	Evening	65.3
1:00 AM	63.1		3.5	3.9				Night	
2:00 AM	52.9								
3:00 AM	56.5								
4:00 AM	55.3								
5:00 AM	58.8								
6:00 AM	62.6								
7:00 AM	63.5								
8:00 AM	65.1								
9:00 AM	62.7								
10:00 AM	64								
11:00 AM	63.4								
Noon	65.3								
1:00 PM	66.5								
2:00 PM	68.6								
3:00 PM	62.4								
4:00 PM	67.8								
5:00 PM	66.4								
6:00 PM	62.6								
7:00 PM	63.8								
8:00 PM	59.4								
9:00 PM	60.7								
10:00 PM	58.8								
11:00 PM	58.9								



LT-4 Meter Data	Rec 3 to 30	Fast Response	dBA weighting		1.0 dB resolution stats														
	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%	L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
Long Term	6/19/2018 9:00	1.0 hour	74.8	110.4	97.6	56.2	85	81	78	64	59	58	57	64	66.8	7.31	83	79	72
	6/19/2018 10:00	1.0 hour	67.1	102.7	84.2	55.9	78	73	69	63	59	58	57	63	63.4	4.27	76	70	65
	6/19/2018 11:00	1.0 hour	63	98.6	82.1	55.3	70	66	65	61	58	57	56	61	61.3	2.88	68	65	63
	6/19/2018 12:00	1.0 hour	72	107.6	99.6	55.3	79	70	68	62	59	58	57	62	62.7	4.38	74	68	64
	6/19/2018 13:00	1.0 hour	64.6	100.2	85.4	55.7	74	67	65	61	58	57	57	61	61.4	3.36	70	66	63
	6/19/2018 14:00	1.0 hour	66.4	102	89.9	55.2	78	68	65	61	57	57	56	61	61.2	3.89	73	66	63
	6/19/2018 15:00	1.0 hour	64.6	100.2	84	56.5	74	69	66	61	58	58	57	61	61.9	3.44	71	67	63
	6/19/2018 16:00	1.0 hour	63.9	99.5	86.3	55.6	73	67	65	61	58	57	56	61	61.2	3.2	69	65	63
	6/19/2018 17:00	1.0 hour	63.7	99.3	81	55.7	71	67	66	61	58	58	56	61	61.6	3.08	69	66	63
	6/19/2018 18:00	1.0 hour	63	98.6	78.3	55.2	71	67	65	61	58	57	56	61	61.2	2.95	69	66	63
	6/19/2018 19:00	1.0 hour	63.6	99.2	80.1	54.5	72	68	65	61	57	57	55	61	61.3	3.44	70	66	63
	6/19/2018 20:00	1.0 hour	64.6	100.2	89.2	54.2	74	67	65	60	57	56	55	60	60.6	3.72	70	65	62
	6/19/2018 21:00	1.0 hour	64.8	100.4	88.9	53.2	73	66	64	60	56	55	54	60	60.2	3.75	70	65	62
	6/19/2018 22:00	1.0 hour	63.6	99.2	85.7	51.5	72	67	65	59	55	54	52	59	59.8	4.2	69	65	62
	6/19/2018 23:00	1.0 hour	64.7	100.3	94	49.7	70	65	64	57	53	52	50	57	58	4.45	68	64	61
	6/20/2018 0:00	1.0 hour	64.1	99.7	93.5	47.7	71	64	62	55	50	50	48	55	55.9	5	68	63	59
	6/20/2018 1:00	1.0 hour	61	96.6	82	47.1	72	64	63	55	50	49	48	55	55.9	5.07	67	63	59
	6/20/2018 2:00	1.0 hour	62.5	98.1	90.9	46.8	69	63	61	52	48	48	47	52	53.4	5.2	67	62	56
	6/20/2018 3:00	1.0 hour	62.3	97.9	91.1	47.4	72	65	62	54	50	49	48	54	55.5	5.07	69	63	58
	6/20/2018 4:00	1.0 hour	61.9	97.5	85.6	48.8	73	65	63	54	51	50	49	54	55.9	5.04	69	64	58
	6/20/2018 5:00	1.0 hour	69.1	104.7	93.6	50.3	83	70	67	58	53	52	51	58	59.3	6.23	76	68	63
	6/20/2018 6:00	1.0 hour	66.4	102	87.6	51.7	76	70	68	62	56	55	53	62	62	4.85	73	68	65
Quietest Hour Lmin	6/20/2018 7:00	1.0 hour	65.5	101.1	81.9	55.2	74	69	67	63	58	57	56	63	62.9	3.76	72	68	65
46.8	6/20/2018 8:00	1.0 hour	74.3	109.9	99.9	56.7	85	75	69	63	59	58	57	63	63.9	5.28	80	71	65
Loudest Hour Lmax	6/20/2018 9:00	1.0 hour	65.5	101.1	85.6	57	74	69	67	62	59	58	57	62	62.6	3.46	71	67.1	64
99.9	6/20/2018 10:00	1.0 hour	65.8	101.4	90.5	55.9	74	69	67	62	59	58	57	62	62.4	3.54	71	68	64
Loudest Hour LEQ	6/20/2018 11:00	1.0 hour	66.5	102.1	91.5	55.6	75	69	66	62	58	58	56	62	62.2	3.66	72	67	64
74.30	6/20/2018 12:00	1.0 hour	68.6	104.2	93.2	39.1	82	70	67	60	42	41	40	60	57.5	9.78	77	68	63
	6/20/2018 13:00	33.7 min	66.1	99.2	90.6	39.6	80	69	58	42	41	40	40	42	45.4	8.85	76	64	44

Ldn/CNEL Calculation Spreadsheet

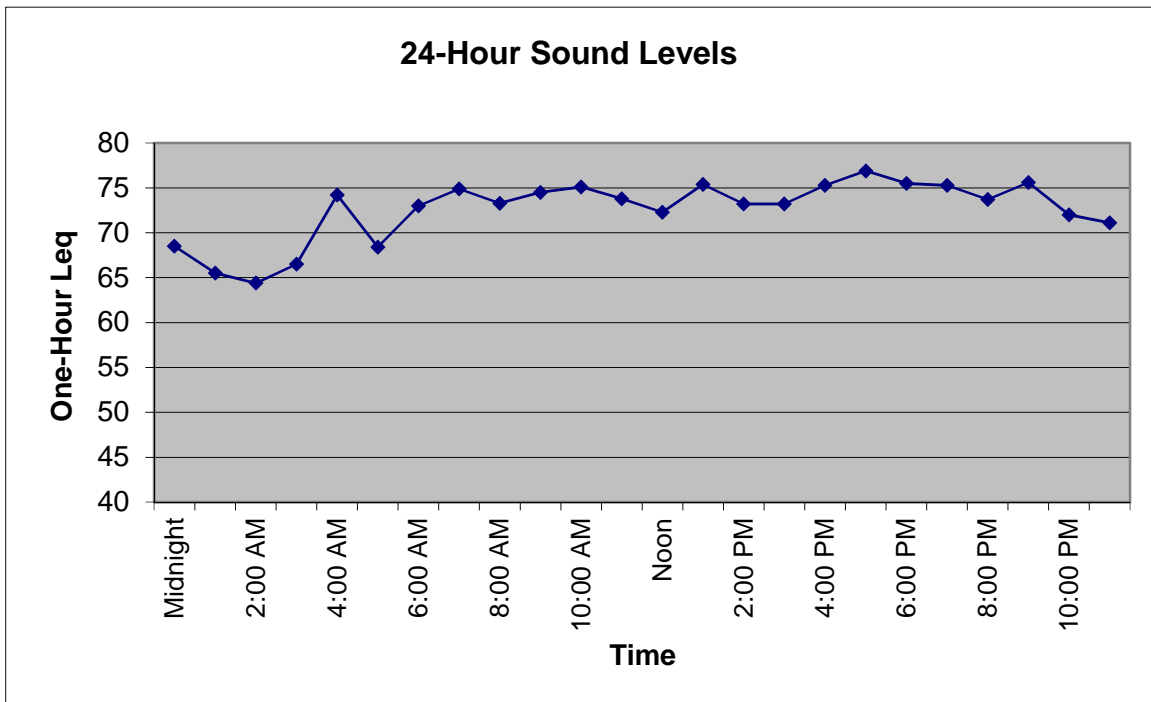
Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-4									
Tuesday to Wednesday									
Time	6/19/2018	Leq(24)	Ldn	CNEL	Worst Hour Leq	Ldn minus Worst Hour Leq	CNEL minus Ldn	Day	12-hour LEQ
Midnight	64.1	66.6	71.6	71.8	74.3	-2.7	0.2	Evening	68.0
1:00 AM	61		6.1	6.3				Night	
2:00 AM	62.5								
3:00 AM	62.3								
4:00 AM	61.9								
5:00 AM	69.1								
6:00 AM	66.4								
7:00 AM	65.5								
8:00 AM	74.3								
9:00 AM	65.5								
10:00 AM	65.8								
11:00 AM	66.5								
Noon	72								
1:00 PM	64.6								
2:00 PM	66.4								
3:00 PM	64.6								
4:00 PM	63.9								
5:00 PM	63.7								
6:00 PM	63								
7:00 PM	63.6								
8:00 PM	64.6								
9:00 PM	64.8								
10:00 PM	63.6								
11:00 PM	64.7								



LT-5 Meter Data	Rec 3 to 30	Fast Response	dBA weighting		1.0 dB resolution stats														
	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%	L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
Long Term	6/19/2018 8:40	1.0 hour	75.5	111.1	94.6	55.4	85	80	78	71	63	61	58	71	70.9	5.75	83	79	75
	6/19/2018 9:40	1.0 hour	73.3	108.9	99.1	60.1	81	76	75	68	64	63	62	68	69.2	4.38	79	75	72
	6/19/2018 10:40	1.0 hour	73.2	108.8	91.6	61.7	81	77	75	70	67	66	65	70	70.8	3.42	79	76	73
	6/19/2018 11:40	1.0 hour	72.3	107.9	85.7	61.6	80	77	75	69	65	65	63	69	69.9	3.84	79	76	73
	6/19/2018 12:40	1.0 hour	75.4	111	93	62	84	80	78	72	67	66	65	72	72.4	4.31	83	79	75
	6/19/2018 13:40	1.0 hour	73.2	108.8	88.5	62.3	81	78	76	70	65	64	63	70	70.5	4.24	80	77	73
	6/19/2018 14:40	1.0 hour	73.2	108.8	91	62.2	82	78	76	69	65	64	63	69	70.1	4.22	80	76	73
	6/19/2018 15:40	1.0 hour	75.3	110.9	90.6	62.4	84	80	78	72	66	65	64	72	71.9	4.85	83	79	75
	6/19/2018 16:40	1.0 hour	76.9	112.5	90.3	62.4	85	82	80	74	68	66	64	74	73.9	4.73	84	81	77
	6/19/2018 17:40	1.0 hour	75.5	111.1	89.9	61.2	84	81	79	72	65	64	63	72	72	5.02	83	79	75
	6/19/2018 18:40	1.0 hour	75.3	110.9	87.9	60.9	84	81	79	71	64	63	62	71	71.4	5.4	83	79	75
	6/19/2018 19:40	1.0 hour	73.7	109.3	88	59.6	82	79	77	70	64	63	62	70	70.5	4.8	81	77	74
	6/19/2018 20:40	1.0 hour	75.6	111.2	99.5	59.9	83	80	78	71	65	64	61	71	71	5.04	82	78	74
	6/19/2018 21:40	1.0 hour	72	107.6	93.4	59.3	80	76	74	68	63	62	61	68	68.6	4.42	78	75	72
	6/19/2018 22:40	1.0 hour	71.1	106.7	98.5	58.4	79	74	73	65	61	60	59	65	66	4.63	76	73	69
	6/19/2018 23:40	1.0 hour	68.5	104.1	93.5	58.5	77	73	71	64	60	60	59	64	64.7	4.37	76	72	67
	6/20/2018 0:40	1.0 hour	65.5	101.1	84.3	53	75	70	68	61	57	55	54	61	62	4.36	73	69	64
	6/20/2018 1:40	1.0 hour	64.4	100	81.5	52	74	70	68	59	54	54	53	59	60.3	5.11	72	69	63
	6/20/2018 2:40	1.0 hour	66.5	102.1	88	52.2	78	71	68	60	54	54	53	60	60.7	5.51	75	69	64
	6/20/2018 3:40	1.0 hour	74.2	109.8	95	52.7	86	78	76	66	57	55	54	66	66.2	7.42	82	77	72
	6/20/2018 4:40	1.0 hour	68.4	104	85.7	54.6	77	74	72	64	58	57	56	64	64.5	5.19	76	72	68
	6/20/2018 5:40	1.0 hour	73	108.6	95.2	56.7	83	78	76	66	61	60	58	66	67.5	5.69	81	77	71
Quietest Hour Lmin	6/20/2018 6:40	1.0 hour	74.9	110.5	98.3	60	84	78	77	68	64	63	61	68	69.8	5.38	81	77	75
52.0	6/20/2018 7:40	1.0 hour	73.3	108.9	93.5	60.6	80	77	76	70	64	64	62	70	70.1	4.57	78	76	74
Loudest Hour Lmax	6/20/2018 8:40	1.0 hour	74.5	110.1	96	61	83	77	76	70	65	64	63	70	70.7	4.48	80	77	74
99.5	6/20/2018 9:40	1.0 hour	75.1	110.7	98.3	63.6	83	78	77	71	67	66	65	71	71.6	4.17	81	77	74
Loudest Hour LEQ	6/20/2018 10:40	1.0 hour	73.8	109.4	97.7	61.5	81	76	75	70	66	65	63	70	70.4	3.79	79	76	73
76.90	6/20/2018 11:40	1.0 hour	73.8	109.4	91.9	62.2	81	78	76	71	66	65	64	71	71.4	3.96	80	77	74
	6/20/2018 12:40	53.8 min	74.1	109.2	94.1	53.3	84	79	76	70	61	59	55	70	69.4	5.9	82	77	73

Ldn/CNEL Calculation Spreadsheet

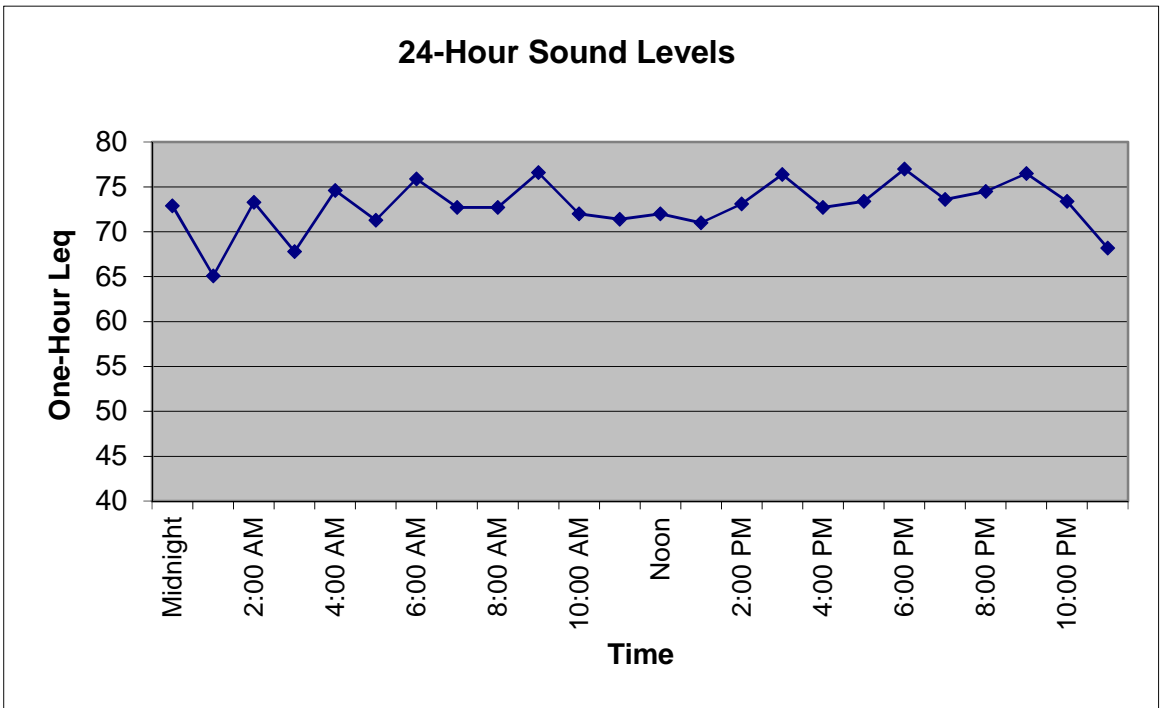
Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-5		Tuesday to Wednesday		Worst Hour	Ldn minus	CNEL minus			
Time	6/19/2018	Leq(24)	Ldn	CNEL	Leq	Worst Hour Leq	Ldn	Day	12-hour LEQ
Midnight	68.5	73.5	77.8	78.4	76.9	0.9	0.6	Evening	74.6
1:00 AM	65.5		2.9	3.5			Night		
2:00 AM	64.4								
3:00 AM	66.5								
4:00 AM	74.2								
5:00 AM	68.4								
6:00 AM	73								
7:00 AM	74.9								
8:00 AM	73.3								
9:00 AM	74.5								
10:00 AM	75.1								
11:00 AM	73.8								
Noon	72.3								
1:00 PM	75.4								
2:00 PM	73.2								
3:00 PM	73.2								
4:00 PM	75.3								
5:00 PM	76.9								
6:00 PM	75.5								
7:00 PM	75.3								
8:00 PM	73.7								
9:00 PM	75.6								
10:00 PM	72								
11:00 PM	71.1								



LT-6	Rec 3 to 30	Fast Response	dBA weighting		1.0 dB resolution stats														
Meter Data	Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin	L1%	L5%	L10%	L50%	L90%	L95%	L99%	Lmedian	Lmean	StdDev	L2%	L8%	L25%
Long Term																			
	6/19/2018 9:32	1.0 hour	73.2	108.8	92.3	60.3	83	77	75	68	64	63	62	68	69.1	4.41	80	75	71
	6/19/2018 10:32	1.0 hour	72.5	108.1	91.2	60.6	83	77	75	67	63	63	61	67	68.3	4.59	80	75	71
	6/19/2018 11:32	1.0 hour	71.9	107.5	93	59.8	82	76	74	67	63	62	61	67	67.9	4.44	79	75	70
	6/19/2018 12:32	1.0 hour	72	107.6	92	61.2	82	76	74	68	64	63	62	68	68.6	3.98	79	74	71
	6/19/2018 13:32	1.0 hour	71	106.6	84.6	59.9	80	76	74	67	63	62	61	67	68	4.21	78	75	71
	6/19/2018 14:32	1.0 hour	73.1	108.7	93.6	60.8	84	77	75	68	64	63	62	68	69.1	4.47	81	75	72
	6/19/2018 15:32	1.0 hour	76.4	112	102.5	60.4	85	77	74	68	64	63	62	68	68.9	4.67	81	75	71
	6/19/2018 16:32	1.0 hour	72.7	108.3	88.1	60.8	82	77	75	69	65	64	62	69	69.5	4.19	80	76	72
	6/19/2018 17:32	1.0 hour	73.4	109	94.7	62.2	83	77	75	68	64	64	63	68	69.1	4.32	80	75	71
	6/19/2018 18:32	1.0 hour	77	112.6	103.7	61.4	88	79	75	68	64	64	62	68	69.1	5.09	83	76	71
	6/19/2018 19:32	1.0 hour	73.6	109.2	93.6	60.7	84	78	76	69	64	64	62	69	69.5	4.65	82	76	72
	6/19/2018 20:32	1.0 hour	74.5	110.1	96.1	60.5	85	78	75	68	64	63	62	68	69.3	4.82	82	76	72
	6/19/2018 21:32	1.0 hour	76.5	112.1	102.3	58.5	87	76	74	67	62	61	60	67	67.6	5.19	81	74	70
	6/19/2018 22:32	1.0 hour	73.4	109	101.8	56.7	80	75	73	65	60	59	58	65	65.9	5.24	78	74	69
	6/19/2018 23:32	1.0 hour	68.2	103.8	88.4	55.4	77	74	71	63	59	58	56	63	64.1	4.81	76	72	67
	6/20/2018 0:32	1.0 hour	72.9	108.5	98.3	54.6	84	74	71	61	57	57	55	61	62.9	5.83	78	72	65
	6/20/2018 1:32	1.0 hour	65.1	100.7	83.5	54.2	75	71	68	60	56	55	55	60	60.9	4.73	74	69	63
	6/20/2018 2:32	1.0 hour	73.3	108.9	103.3	53.7	78	72	69	60	55	55	54	60	61.2	5.65	76	70	64
	6/20/2018 3:32	1.0 hour	67.8	103.4	92.4	54.3	78	72	68	60	56	55	54	60	61.2	5.26	76	69	64
	6/20/2018 4:32	1.0 hour	74.6	110.2	104	55.3	81	75	71	62	58	57	56	62	63.6	5.82	78	72	66
	6/20/2018 5:32	1.0 hour	71.3	106.9	90.9	56.4	82	76	73	66	61	60	58	66	66.5	5.02	79	74	69
	6/20/2018 6:32	1.0 hour	75.9	111.5	102.8	60.1	87	78	75	68	64	63	61	68	69.1	4.96	82	76	71
Quietest Hour Lmin	6/20/2018 7:32	1.0 hour	72.7	108.3	92.4	60.8	82	77	75	69	65	64	62	69	69.2	4.15	80	76	71
53.7	6/20/2018 8:32	1.0 hour	72.7	108.3	90.4	61.1	83	77	75	68	65	64	63	68	69.1	4.2	80	75	71
Loudest Hour Lmax	6/20/2018 9:32	1.0 hour	76.6	112.2	104.6	62.6	84	77	75	69	66	65	63	69	69.9	4.23	80	76	72
104.6	6/20/2018 10:32	1.0 hour	72	107.6	90.6	60.6	83	76	74	67	64	63	62	67	68.2	4.17	80	74	70
Loudest Hour LEQ	6/20/2018 11:32	1.0 hour	71.4	107	89.7	60.7	81	76	74	67	64	63	61	67	68.1	4.16	79	74	71
77.00	6/20/2018 12:32	1.0 hour	71.5	107.1	90.5	51.4	81	76	74	68	60	57	53	68	67.4	5.59	79	75	71
	6/20/2018 13:32	3.0 min	75.2	97.8	86.7	54.8	83	80	79	72	63	59	55	72	71.4	6.12	82	79	76

Ldn/CNEL Calculation Spreadsheet

Project: The Hub Specific Plan		Date: 6/19/2018		Analyst: E. Scott					
Location: LT-6									
Tuesday to Wednesday									
Time	6/19/2018	Leq(24)	Ldn	CNEL	Worst Hour Leq	Ldn minus Worst Hour Leq	CNEL minus Ldn	Day	12-hour LEQ
Midnight	72.9	73.6	79.2	79.6	77.0	2.2	0.4	Evening	73.9
1:00 AM	65.1		6.5	6.9				Night	
2:00 AM	73.3								
3:00 AM	67.8								
4:00 AM	74.6								
5:00 AM	71.3								
6:00 AM	75.9								
7:00 AM	72.7								
8:00 AM	72.7								
9:00 AM	76.6								
10:00 AM	72								
11:00 AM	71.4								
Noon	72								
1:00 PM	71								
2:00 PM	73.1								
3:00 PM	76.4								
4:00 PM	72.7								
5:00 PM	73.4								
6:00 PM	77								
7:00 PM	73.6								
8:00 PM	74.5								
9:00 PM	76.5								
10:00 PM	73.4								
11:00 PM	68.2								



APPENDIX E-2

SHORT-TERM METER DATA

Summary	ST-1		
Filename	831_Data.016		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/20 10:27:29		
Stop	2018/06/20 10:42:31		
Duration	0:15:01.3		
Run Time	0:15:01.3		
Pause	0:00:00.0		
Pre Calibration	2018/06/20 10:24:41		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	145.0 dB		
	A	C	Z
Under Range Peak	77.5	74.5	79.5 dB
Under Range Limit	26.8	27.4	33.5 dB
Noise Floor	17.7	18.2	23.8 dB
Results			
LAeq	63.3 dB		
LAE	92.8 dB		
EA	211.907 $\mu\text{Pa}^2\text{h}$		
LApeak (max)	2018/06/20 10:36:06	98.4 dB	
LASmax	2018/06/20 10:36:06	84.8 dB	
LASmin	2018/06/20 10:39:58	49.7 dB	
SEA	-99.9 dB		

Summary	ST-2		
Filename	831_Data.015		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/20 9:56:11		
Stop	2018/06/20 10:11:12		
Duration	0:15:00.9		
Run Time	0:15:00.9		
Pause	0:00:00.0		
Pre Calibration	2018/06/20 9:51:26		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	144.9 dB		
	A	C	Z
Under Range Peak	77.4	74.4	79.4 dB
Under Range Limit	26.8	27.3	33.4 dB
Noise Floor	17.7	18.2	23.8 dB
Results			
LAeq	71.3 dB		
LAE	100.8 dB		
EA	1.337 mPa ² h		
LApeak (max)	2018/06/20 9:59:29	102.2 dB	
LASmax	2018/06/20 10:01:21	83.4 dB	
LASmin	2018/06/20 9:59:01	58.9 dB	
SEA	-99.9 dB		

Summary	ST-3		
Filename	831_Data.012		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/19 10:52:27		
Stop	2018/06/19 11:07:28		
Duration	0:15:01.4		
Run Time	0:15:01.4		
Pause	0:00:00.0		
Pre Calibration	2018/06/19 10:50:00		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	144.9 dB		
	A	C	Z
Under Range Peak	77.4	74.4	79.4 dB
Under Range Limit	26.8	27.3	33.4 dB
Noise Floor	17.7	18.2	23.7 dB
Results			
LAeq	70.6 dB		
LAE	100.1 dB		
EA	1.149 mPa ² h		
LApeak (max)	2018/06/19 10:55:53	107.2 dB	
LASmax	2018/06/19 10:55:53	92.1 dB	
LASmin	2018/06/19 11:06:09	55.6 dB	
SEA	-99.9 dB		

Summary	ST-4		
Filename	831_Data.014		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/19 13:19:34		
Stop	2018/06/19 13:34:35		
Duration	0:15:01.2		
Run Time	0:15:01.2		
Pause	0:00:00.0		
Pre Calibration	2018/06/19 13:16:24		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	145.0 dB		
	A	C	Z
Under Range Peak	77.5	74.5	79.5 dB
Under Range Limit	26.8	27.4	33.5 dB
Noise Floor	17.7	18.2	23.8 dB
Results			
LAeq	68.1 dB		
LAE	97.6 dB		
EA	642.947 $\mu\text{Pa}^2\text{h}$		
LApeak (max)	2018/06/19 13:21:18	98.0 dB	
LASmax	2018/06/19 13:21:18	78.2 dB	
LASmin	2018/06/19 13:21:55	56.5 dB	
SEA	-99.9 dB		

Summary	ST-5		
Filename	831_Data.017		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/20 10:59:16		
Stop	2018/06/20 11:14:17		
Duration	0:15:00.7		
Run Time	0:15:00.7		
Pause	0:00:00.0		
Pre Calibration	2018/06/20 10:57:20		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	145.0 dB		
	A	C	Z
Under Range Peak	77.4	74.4	79.4 dB
Under Range Limit	26.8	27.3	33.4 dB
Noise Floor	17.7	18.2	23.8 dB
Results			
LAeq	69.5 dB		
LAE	99.1 dB		
EA	895.389 $\mu\text{Pa}^2\text{h}$		
LApeak (max)	2018/06/20 11:07:20	98.6 dB	
LASmax	2018/06/20 11:07:20	85.5 dB	
LASmin	2018/06/20 11:05:29	61.6 dB	
SEA	-99.9 dB		

Summary	ST-6		
Filename	831_Data.013		
Serial Number	3785		
Model	Model 831		
Firmware Version	2.314		
User			
Location			
Job Description			
Note			
Measurement Description			
Start	2018/06/19 12:39:15		
Stop	2018/06/19 12:55:16		
Duration	0:16:01.1		
Run Time	0:16:01.1		
Pause	0:00:00.0		
Pre Calibration	2018/06/19 12:36:49		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Gain	0.0 dB		
Overload	145.0 dB		
	A	C	Z
Under Range Peak	77.4	74.4	79.4 dB
Under Range Limit	26.8	27.3	33.4 dB
Noise Floor	17.7	18.2	23.8 dB
Results			
LAeq	67.6 dB		
LAE	97.4 dB		
EA	611.558 $\mu\text{Pa}^2\text{h}$		
LApeak (max)	2018/06/19 12:44:24	95.8 dB	
LASmax	2018/06/19 12:52:13	80.1 dB	
LASmin	2018/06/19 12:44:35	59.3 dB	
SEA	-99.9 dB		

APPENDIX E-3

ADT TRAFFIC DATA AND RATIO INCREASE FROM BASELINE NO-PLAN TO WITH-PLAN SCENARIO (YEAR 2020 NO PLAN TO YEAR 2020 WITH PLAN)

24246_24296	25,101	29,875	30,680	41,157	41,823	805.01	3%	665.73	2%	0,805	3%
24247_24307	4,571	5,725	6,352	8,525	8,626	627.14	11%	100.68	1%	0,627	11%
24247_24308	2,961	4,112	4,751	6,885	7,001	639.35	16%	116.07	2%	0,639	16%
24248_24308	2,961	4,111	4,751	6,885	7,001	639.98	16%	116.01	2%	0,640	16%
24248_24412	15,102	14,705	15,186	17,525	18,032	480.73	3%	506.65	3%	0,481	3%
24249_24350	3,005	4,821	6,029	8,666	9,743	1,208.06	25%	1,076.95	12%	1,208	25%
24273_24296	329	317	332	397	383	15.30	5%	-14.19	-4%	0,015	5%
24289_24302	95	114	131	266	392	17.46	15%	125.37	47%	0,017	15%
24296_24297	24,710	29,447	30,243	40,648	41,315	795.46	3%	667.29	2%	0,795	3%
24297_24305	25,269	30,185	31,010	41,415	42,097	825.37	3%	681.93	2%	0,825	3%
24298_24299	17,037	17,523	17,397	19,760	19,827	-126.49	-1%	66.69	0%	-0,126	-1%
24299_24301	3,518	4,970	5,202	6,617	6,710	231.92	5%	92.58	1%	0,232	5%
24299_24302	18,097	18,524	18,439	23,126	22,993	-85.41	0%	-133.44	-1%	-0,085	0%
24299_52740	4,258	5,647	5,898	8,731	8,683	250.30	4%	-47.95	-1%	0,250	4%
24302_24310	17,856	18,210	18,215	23,071	23,150	4.41	0%	78.61	0%	0,004	0%
24303_24310	115	127	119	832	858	-8.43	-7%	26.26	3%	-0,008	-7%
24305_24306	24,282	29,468	29,725	41,120	41,592	256.80	1%	472.02	1%	0,257	1%
24305_24307	4,948	6,132	6,755	8,917	8,998	623.14	10%	81.52	1%	0,623	10%
24305_52740	4,258	5,647	5,898	8,731	8,683	250.30	4%	-47.95	-1%	0,250	4%
24306_24312	23,871	29,021	29,258	40,565	41,019	236.84	1%	454.67	1%	0,237	1%
24307_24417	275	266	274	382	382	8.41	3%	0.01	0%	0,008	3%
24308_24309	0.17	1.2	0.47	0.092	0.16	-0.71	-60%	0.07	77%	-0,001	-60%
24309_24414	9,663	10,491	11,041	42,250	43,969	549.98	5%	1,719.12	4%	0,550	5%
24309_24417	9,663	10,493	11,042	42,251	43,970	548.93	5%	1,719.44	4%	0,549	5%
24310_24311	17,698	18,072	18,084	22,672	22,764	12.62	0%	91.55	0%	0,013	0%
24310_24312	4.8	34	32	582	618	-1.71	-5%	36.19	6%	-0,002	-5%
24311_24317	6,303	6,468	6,552	7,694	7,730	84.10	1%	35.43	0%	0,084	1%
24311_24327	19,466	19,835	19,947	25,231	25,297	112.49	1%	66.24	0%	0,112	1%
24312_24313	23,878	29,071	29,306	41,491	42,010	234.96	1%	519.70	1%	0,235	1%
24313_24416	25,215	30,494	30,714	43,435	43,851	220.53	1%	415.82	1%	0,221	1%
24313_24417	9,760	10,514	11,045	41,977	43,612	531.27	5%	1,635.20	4%	0,531	5%
24327_24429	19,830	20,163	20,288	25,508	25,488	124.56	1%	-19.78	0%	0,125	1%
24327_50028	680	707	730	1,135	1,119	23.22	3%	-15.15	-1%	0,023	3%
24331_24333	11,061	12,131	12,248	14,163	14,164	117.12	1%	0.24	0%	0,117	1%
24335_24336	760	923	969	1,448	1,559	46.46	5%	110.41	8%	0,046	5%
24336_24337	1,762	1,841	1,834	2,176	2,230	-6.76	0%	53.66	2%	-0,007	0%
24336_24339	373	368	395	490	505	27.22	7%	15.20	3%	0,027	7%
24336_24343	1,525	1,718	1,790	2,446	2,565	71.86	4%	118.21	5%	0,072	4%
24337_33029	483	528	549	646	660	20.69	4%	14.45	2%	0,021	4%
24339_24342	373	368	397	515	523	28.59	8%	8.64	2%	0,029	8%
24341_24342	13,309	14,552	15,610	17,497	17,941	1,058.34	7%	443.49	3%	1,058	7%
24342_24344	9,011	9,672	10,468	11,670	12,103	796.02	8%	432.86	4%	0,796	8%
24342_24368	4,560	4,811	5,283	6,459	6,633	472.03	10%	173.88	3%	0,472	10%
24343_24349	1,525	1,718	1,790	2,446	2,565	71.86	4%	118.21	5%	0,072	4%
24347_24348	1,357	1,441	1,731	1,597	2,112	290.18	20%	515.47	32%	0,290	20%
24347_24349	4,557	4,938	5,219	6,242	6,430	280.23	6%	188.03	3%	0,280	6%
24348_24354	2,111	2,103	2,393	2,829	3,386	290.20	14%	557.02	20%	0,290	14%
24349_33028	9,568	10,434	10,901	11,786	12,340	466.63	4%	554.39	5%	0,467	4%
24349_33029	3,968	4,945	5,184	7,863	8,087	238.75	5%	223.35	3%	0,239	5%
24350_24353	3,318	5,203	6,444	8,970	9,955	1,241.24	24%	984.84	11%	1,241	24%
24350_50691	661	612	651	707	714	39.16	6%	7.76	1%	0,039	6%
24353_24355	1,442	3,215	4,391	5,694	6,737	1,176.34	37%	1,043.32	18%	1,176	37%
24353_24360	1,040	1,596	2,190	2,351	2,439	593.41	37%	87.56	4%	0,593	37%
24354_24360	449	462	546	858	908	84.10	18%	50.38	6%	0,084	18%
24355_24363	1,090	2,396	2,752	4,332	4,458	355.67	15%	125.44	3%	0,356	15%
24355_24412	165	157	160	195	195	2.74	2%	-0.37	0%	0,003	2%
24358_33613	6,361	8,690	10,067	13,589	16,252	1,377.37	16%	2,662.77	20%	1,377	16%
24359_24388	8,058	7,101	8,332	9,878	11,135	1,231.05	17%	1,257.06	13%	1,231	17%
24359_33613	762	779	1,541	1,654	2,098	762.04	98%	443.85	27%	0,762	98%
24359_52257	4,824	3,601	4,759	4,691	5,305	1,157.92	32%	613.87	13%	1,158	32%
24360_24361	382	1,126	1,765	1,476	1,907	639.27	57%	430.81	29%	0,639	57%
24361_24362	382	1,126	1,765	1,476	1,907	639.27	57%	430.81	29%	0,639	57%
24362_24363	4.6	12	18	24	34	6.60	57%	9.80	41%	0,007	57%
24362_24364	203	542	1,161	685	1,254	619.23	114%	569.43	83%	0,619	114%
24363_24413	2.7	0	0	0	0	0.00	#DIV/0!	0.00	#DIV/0!	0,000	#DIV/0!
24363_24421	1,692	3,097	3,498	5,275	5,566	401.27	13%	290.24	6%	0,401	13%
24364_24388	1,094	1,407	1,943	1,692	2,150	535.87	38%	458.38	27%	0,536	38%
24364_24421	910	927	924	1,093	1,077	-3.28	0%	-15.95	-1%	-0,003	0%
24368_24370	4,121	4,382	4,822	5,902	6,089	440.31	10%	186.99	3%	0,440	10%
24370_24372	4,121	4,382	4,822	5,902	6,089	440.31	10%	186.99	3%	0,440	10%
24372_24379	4,697	4,998	5,662	6,954	7,227	663.92	13%	273.87	4%	0,664	13%
24372_24383	1,652	1,730	2,327	2,547	2,794	596.82	34%	247.18	10%	0,597	34%
24373_24379	4,927	5,156	5,845	6,974	7,237	688.48	13%	262.79	4%	0,688	13%
24373_24381	5,146	5,642	5,948	7,934	8,204	306.02	5%	270.37	3%	0,306	5%
24377_24378	602	1,288	1,435	2,646	2,729	146.82	11%	82.93	3%	0,147	11%
24378_24381	4,473	4,822	5,272	6,971	7,232	449.48	9%	260.88	4%	0,449	9%

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24378_24382	968	1,705	1,874	2,656	2,747	168.38	10%	90.33	3%	0.168	10%
24378_25835	3,903	4,219	4,639	5,747	5,952	420.54	10%	204.85	4%	0.421	10%
24382_24402	980	1,723	1,887	2,706	2,839	164.82	10%	133.02	5%	0.165	10%
24383_33027	1,503	1,563	1,962	2,125	2,291	399.28	26%	165.23	8%	0.399	26%
24383_51724	232	242	526	606	721	283.97	117%	115.29	19%	0.284	117%
24386_33613	6,724	9,130	10,670	14,377	17,246	1,539.99	17%	2,868.99	20%	1,540	17%
24388_24389	1.0	0	13	6,461	6,396	13.35	#DIV/0!	-64.99	-1%	0.013	#DIV/0!
24388_24393	4,887	6,400	6,931	6,950	7,296	531.18	8%	345.64	5%	0.531	8%
24388_24421	5,012	5,858	6,222	7,082	7,359	363.78	6%	277.05	4%	0.364	6%
24389_30749	21	68	115	939	1,004	47.09	69%	64.99	7%	0.047	69%
24390_24392	2,602	2,155	2,439	2,610	2,758	283.93	13%	148.38	6%	0.284	13%
24390_24393	4,497	5,128	5,871	5,969	6,311	742.85	14%	341.66	6%	0.743	14%
24390_24404	11,667	14,678	15,029	16,028	16,164	351.44	2%	136.12	1%	0.351	2%
24392_24406	2,603	2,157	2,343	2,552	2,719	185.65	9%	167.45	7%	0.186	9%
24392_50677	307	363	839	863	1,069	476.76	131%	206.16	24%	0.477	131%
24393_24394	1,985	3,283	5,100	5,836	7,076	1,817.02	55%	1,240.31	21%	1.817	55%
24394_24397	468	931	895	1,185	1,217	-35.94	-4%	31.70	3%	-0.036	-4%
24394_24404	0	0	0	0	0	0.00	#DIV/0!	0.00	#DIV/0!	0.000	#DIV/0!
24397_30752	468	931	895	1,185	1,217	-35.94	-4%	31.70	3%	-0.036	-4%
24398_24401	4,231	4,311	4,444	5,123	5,355	133.50	3%	232.13	5%	0.133	3%
24398_33027	4,231	4,311	4,444	5,123	5,355	133.50	3%	232.13	5%	0.133	3%
24400_24402	273	288	274	284	289	-14.09	-5%	4.53	2%	-0.014	-5%
24401_24403	18,679	19,912	20,583	22,142	22,934	671.37	3%	792.47	4%	0.671	3%
24401_24406	1.0	24	3.7	70	81	-20.36	-84%	10.59	15%	-0.020	-84%
24401_33027	14,446	15,631	16,133	17,077	17,631	501.99	3%	553.54	3%	0.502	3%
24402_24403	1,155	1,922	2,077	3,357	3,658	155.75	8%	300.99	9%	0.156	8%
24403_25847	20,302	21,210	21,981	23,901	24,650	771.06	4%	749.18	3%	0.771	4%
24404_24407	11,667	14,678	15,029	16,028	16,164	351.44	2%	136.12	1%	0.351	2%
24406_25853	1,928	1,715	1,858	2,249	2,401	142.35	8%	151.80	7%	0.142	8%
24407_30753	12,501	15,895	18,827	19,140	20,045	2,932.07	18%	904.98	5%	2.932	18%
24412_24413	14,215	13,767	14,276	16,572	17,040	508.45	4%	467.39	3%	0.508	4%
24413_24414	14,577	14,118	14,623	16,981	17,455	505.09	4%	474.44	3%	0.505	4%
24414_24415	16,629	16,881	17,438	20,767	21,646	556.71	3%	878.22	4%	0.557	3%
24415_24423	16,629	16,881	17,438	20,767	21,646	556.71	3%	878.22	4%	0.557	3%
24416_24423	508	520	547	2,630	2,627	26.80	5%	-2.81	0%	0.027	5%
24416_30745	24,740	30,104	30,398	43,080	43,435	294.23	1%	355.14	1%	0.294	1%
24423_24424	16,284	16,529	17,069	20,224	21,094	539.42	3%	869.36	4%	0.539	3%
24424_30746	16,344	15,861	16,534	19,452	20,330	673.21	4%	878.32	5%	0.673	4%
24429_24788	5,623	6,679	6,853	4,879	4,848	174.62	3%	-31.10	-1%	0.175	3%
24436_24438	8,439	10,427	10,613	9,547	9,864	186.09	2%	317.01	3%	0.186	2%
24437_24438	10,723	13,441	14,390	12,007	11,726	949.56	7%	-280.70	-2%	0.950	7%
24438_24460	0.33	56	56	39	40	0.11	0%	0.35	1%	0.000	0%
24444_24455	9,734	15,113	15,133	16,652	16,374	20.10	0%	-278.04	-2%	0.020	0%
24444_24456	499	562	587	96	106	25.14	4%	9.83	10%	0.025	4%
24444_30749	579	2,632	2,672	0	0	39.56	2%	0.00	#DIV/0!	0.040	2%
24444_30750	9,452	14,036	14,805	17,816	18,321	769.12	5%	504.72	3%	0.769	5%
24447_24449	15,930	23,531	24,360	24,844	25,287	829.54	4%	442.46	2%	0.830	4%
24447_24455	9,734	15,113	15,133	16,652	16,374	20.10	0%	-278.04	-2%	0.020	0%
24447_25906	4,846	5,542	5,689	5,400	5,672	146.41	3%	271.74	5%	0.146	3%
24447_30705	980	1,000	1,500	1,800	2,600	500.00	50%	800.00	44%	0.500	50%
24448_24457	5,731	8,667	10,349	9,655	11,206	1,682.06	19%	1,550.95	16%	1.682	19%
24448_30706	4,563	6,861	7,782	10,529	11,312	921.58	13%	783.05	7%	0.922	13%
24448_30748	15,220	13,057	13,863	15,367	15,412	806.01	6%	44.67	0%	0.806	6%
24449_24457	15,419	22,714	23,164	24,341	24,546	449.79	2%	205.55	1%	0.450	2%
24449_30706	182	233	471	348	598	237.69	102%	250.44	72%	0.238	102%
24450_24459	6,988	6,331	7,228	11,745	12,037	896.24	14%	292.01	2%	0.896	14%
24450_24460	8,202	13,065	13,520	16,496	16,473	455.09	3%	-22.89	0%	0.455	3%
24451_24458	12,102	17,827	18,105	18,165	18,087	278.49	2%	-77.99	0%	0.278	2%
24453_24456	18,935	23,560	25,094	27,846	28,185	1,533.37	7%	339.02	1%	1.533	7%
24453_30751	60	63	63	71	42	0.92	1%	-28.55	-40%	0.001	1%
24453_30753	19,619	24,380	25,915	28,993	29,314	1,535.17	6%	320.66	1%	1.535	6%
24455_25905	0	0	0	0	0	0.00	#DIV/0!	0.00	#DIV/0!	0.000	#DIV/0!
24456_25859	1,154	1,193	1,583	2,247	2,265	389.47	33%	17.52	1%	0.389	33%
24456_25905	20,062	24,843	26,906	29,748	29,572	2,063.00	8%	-175.82	-1%	2.063	8%
24457_24458	11,429	16,855	17,059	18,106	18,094	203.62	1%	-12.28	0%	0.204	1%
24457_25916	3,350	6,000	7,226	5,331	6,159	1,225.47	20%	828.45	16%	1.225	20%
24458_25917	88	35	114	145	75	78.94	224%	-69.68	-48%	0.079	224%
24459_24460	8,202	13,006	13,462	16,458	16,436	455.88	4%	-21.30	0%	0.456	4%
24461_24472	18,928	20,384	20,712	24,987	24,745	327.87	2%	-241.81	-1%	0.328	2%
24467_24472	19,231	20,769	21,098	25,464	25,254	329.31	2%	-210.31	-1%	0.329	2%
24472_25940	859	870	855	1,408	1,363	-14.63	-2%	-45.23	-3%	-0.015	-2%
25835_25843	5,012	5,700	6,080	6,824	7,092	379.89	7%	268.31	4%	0.380	7%
25835_33026	7,620	8,161	8,507	9,010	9,202	346.68	4%	192.49	2%	0.347	4%
25843_25844	5,012	5,700	6,080	6,824	7,092	379.89	7%	268.31	4%	0.380	7%
25844_25860	5,012	5,700	6,080	6,370	6,474	379.89	7%	104.22	2%	0.380	7%
25847_25849	20,302	21,210	21,981	23,901	24,650	771.06	4%	749.18	3%	0.771	4%

25849 25850	574	1,037	1,104	1,140	1,145	66.80	6%	4.81	0%	0.067	6%
25849 25860	19,777	20,784	21,513	22,145	22,607	728.84	4%	462.13	2%	0.729	4%
25850 30759	851	1,330	1,400	1,628	1,636	70.05	5%	8.24	1%	0.070	5%
25854 25857	4,573	6,122	6,523	7,749	8,003	401.31	7%	254.25	3%	0.401	7%
25854 25867	4,408	6,023	6,352	7,599	7,791	328.68	5%	192.22	3%	0.329	5%
25854 53028	224	272	414	855	835	142.54	52%	-19.86	-2%	0.143	52%
25854 53030	100	199	289	755	695	90.10	45%	-60.58	-8%	0.090	45%
25855 25857	2,535	3,361	3,614	3,610	3,656	252.64	8%	45.76	1%	0.253	8%
25855 25858	1,382	1,413	1,543	1,410	1,437	130.14	9%	27.00	2%	0.130	9%
25855 30753	2,536	3,364	3,618	3,619	3,659	253.99	8%	39.23	1%	0.254	8%
25855 53031	1,382	1,416	1,546	1,418	1,441	130.53	9%	22.77	2%	0.131	9%
25856 25908	982	972	1,130	1,227	1,394	157.62	16%	167.12	14%	0.158	16%
25856 25909	1,130	1,283	1,597	2,566	2,602	313.92	24%	36.38	1%	0.314	24%
25856 53030	100	199	289	770	696	90.10	45%	-73.92	-10%	0.090	45%
25856 53033	6.5	4.6	3.6	2.9	4.6	-0.98	-21%	1.68	59%	-0.001	-21%
25857 25907	17,922	18,729	18,519	18,738	18,666	-209.98	-1%	-72.46	0%	-0.210	-1%
25857 53029	21,320	23,668	24,553	25,520	26,163	885.42	4%	643.02	3%	0.885	4%
25858 53029	2,286	2,370	2,574	2,828	2,862	203.81	9%	34.17	1%	0.204	9%
25859 25909	1,233	1,250	1,631	2,375	2,390	380.73	30%	14.60	1%	0.381	30%
25859 25910	1,432	1,451	1,575	1,492	1,513	124.41	9%	21.03	1%	0.124	9%
25859 53031	1,382	1,416	1,546	1,418	1,441	130.53	9%	22.77	2%	0.131	9%
25860 30757	12,221	13,239	14,073	14,992	15,381	833.63	6%	389.68	3%	0.834	6%
25860 30758	14,385	14,641	15,045	15,385	15,691	403.53	3%	306.09	2%	0.404	3%
25860 33026	7,620	8,161	8,507	9,010	9,202	346.68	4%	192.49	2%	0.347	4%
25861 30069	18,237	19,278	19,951	21,579	21,809	672.66	3%	230.14	1%	0.673	3%
25861 30070	20,540	21,651	22,470	24,241	24,507	819.01	4%	265.80	1%	0.819	4%
25861 53033	6.5	4.6	3.6	2.9	4.6	-0.98	-21%	1.68	59%	-0.001	-21%
25861 53035	1,472	1,486	1,542	1,529	1,550	55.28	4%	20.68	1%	0.055	4%
25864 30757	1,301	1,639	1,685	3,033	3,044	45.15	3%	11.35	0%	0.045	3%
25867 25868	5,045	5,290	5,264	5,160	5,049	-25.87	0%	-110.45	-2%	-0.026	0%
25867 25869	4,526	5,965	6,253	7,370	7,404	288.63	5%	33.61	0%	0.289	5%
25867 25870	5,787	6,215	6,466	6,466	6,616	251.43	4%	150.11	2%	0.251	4%
25868 30757	6,311	6,799	7,080	7,179	7,265	281.36	4%	86.27	1%	0.281	4%
25868 53028	212	223	231	356	320	8.28	4%	-35.70	-10%	0.008	4%
25870 25908	5,221	5,399	5,371	5,295	5,289	-28.00	-1%	-5.87	0%	-0.028	-1%
25903 25908	3,204	3,720	3,926	13,218	13,652	206.11	6%	433.79	3%	0.206	6%
25905 25906	20,207	24,985	27,018	30,149	29,992	2,032.81	8%	-157.01	-1%	2.033	8%
25905 25910	0	0	0	0	0	0.00	#DIV/0!	0.00	#DIV/0!	0.000	#DIV/0!
25906 25915	16,955	20,805	21,886	24,008	23,617	1,081.44	5%	-391.42	-2%	1.081	5%
25906 30074	7,601	8,507	9,286	9,906	10,384	778.72	9%	477.99	5%	0.779	9%
25907 25909	17,922	18,729	18,519	18,738	18,666	-209.98	-1%	-72.46	0%	-0.210	-1%
25908 25911	4,895	5,046	5,060	4,938	4,928	13.55	0%	-10.15	0%	0.014	0%
25909 53032	17,847	18,713	18,415	18,649	18,585	-297.65	-2%	-63.42	0%	-0.298	-2%
25910 30074	1,553	1,574	1,659	1,646	1,680	84.62	5%	34.31	2%	0.085	5%
25911 25921	0	0	0	0	0	0.00	#DIV/0!	0.00	#DIV/0!	0.000	#DIV/0!
25911 30069	4,895	5,046	5,060	4,938	4,928	13.55	0%	-10.15	0%	0.014	0%
25912 25914	9,670	10,529	10,426	10,454	10,506	-102.59	-1%	52.26	0%	-0.103	-1%
25912 30070	9,670	10,529	10,426	10,454	10,506	-102.59	-1%	52.26	0%	-0.103	-1%
25913 25979	20,033	25,049	29,347	21,073	24,094	4,297.45	17%	3,020.60	14%	4.297	17%
25914 25978	6,785	7,237	8,763	6,652	7,660	1,525.94	21%	1,007.82	15%	1.526	21%
25914 25979	20,106	25,146	29,498	21,174	24,223	4,352.01	17%	3,049.76	14%	4.352	17%
25915 25916	16,437	20,134	21,206	22,957	22,573	1,072.00	5%	-384.35	-2%	1.072	5%
25915 53034	120	122	101	182	199	-20.30	-17%	16.41	9%	-0.020	-17%
25916 25917	25,954	31,960	33,205	38,268	37,814	1,244.97	4%	-454.01	-1%	1.245	4%
25916 25978	5,329	5,570	6,393	5,667	6,617	822.31	15%	949.41	17%	0.822	15%
25917 25918	26,245	32,468	33,746	38,508	38,058	1,277.88	4%	-449.73	-1%	1.278	4%
25917 25970	88	35	114	145	75	78.94	224%	-69.68	-48%	0.079	224%
25918 25919	20,716	25,176	26,486	27,707	27,721	1,309.43	5%	14.40	0%	1.309	5%
25918 26000	1,020	834	918	4,171	4,229	84.02	10%	57.69	1%	0.084	10%
25919 25929	160	376	332	2,358	2,446	-43.67	-12%	88.08	4%	-0.044	-12%
25919 25939	20,801	25,436	26,722	27,773	27,839	1,285.37	5%	65.27	0%	1.285	5%
25922 30069	17,276	18,054	18,749	20,216	20,330	695.09	4%	114.89	1%	0.695	4%
25925 25969	111	121	123	477	542	2.59	2%	65.16	14%	0.003	2%
25925 26000	1,723	1,715	1,596	5,567	5,815	-119.10	-7%	248.45	4%	-0.119	-7%
25927 25969	2,224	2,283	2,428	3,178	3,349	144.42	6%	171.08	5%	0.144	6%
25928 25939	3,501	4,261	4,500	4,706	5,058	239.38	6%	352.55	7%	0.239	6%
25939 25940	20,283	25,145	26,384	27,889	27,850	1,238.74	5%	-38.27	0%	1.239	5%
25969 25979	2,158	2,193	2,318	2,355	2,415	124.37	6%	59.47	3%	0.124	6%
25970 25978	791	916	792	1,540	1,661	-124.18	-14%	121.07	8%	-0.124	-14%
25970 26000	703	881	678	1,395	1,586	-203.12	-23%	190.75	14%	-0.203	-23%
25978 53034	2,447	2,485	2,744	2,769	2,795	258.99	10%	26.76	1%	0.259	10%
25979 53035	2,240	2,284	2,442	2,480	2,555	157.92	7%	75.07	3%	0.158	7%
30069 50317	5,479	5,827	5,757	5,696	5,676	-70.54	-1%	-20.19	0%	-0.071	-1%
30070 30074	7,727	8,593	9,414	9,987	10,446	821.23	10%	458.57	5%	0.821	10%
30070 53032	17,847	18,713	18,415	18,649	18,585	-297.65	-2%	-63.42	0%	-0.298	-2%
30071 50317	5,479	5,827	5,757	5,696	5,676	-70.54	-1%	-20.19	0%	-0.071	-1%

30074_53034	1,633	1,627	1,737	1,692	1,715	109.37	7%	23.14	1%	0.109	7%	
30705_30706	4,778	7,190	8,454	11,003	12,121	1,264.56	18%	1,118.42	10%	1.265	18%	
30748_30749	6,098	7,157	8,176	2,174	2,174	1,018.36	14%	0.00	0%	1.018	14%	
30749_30750	2,898	3,112	3,041	2,352	2,467	-70.74	-2%	114.86	5%	-0.071	-2%	
30750_30751	1,078	1,072	1,071	188	168	-1.39	0%	-20.02	-11%	-0.001	0%	
30750_30752	6,541	8,039	8,467	9,438	9,783	427.40	5%	344.58	4%	0.427	5%	
30751_30753	1,030	1,023	1,021	139	139	-2.68	0%	0.07	0%	-0.003	0%	
30752_30753	5,955	6,879	7,312	7,980	8,281	433.47	6%	301.16	4%	0.433	6%	
30756_30759	6,426	7,561	7,936	9,590	9,731	374.89	5%	141.08	1%	0.375	5%	
30756_30772	7,623	7,823	7,926	9,056	9,212	103.50	1%	156.14	2%	0.104	1%	
30756_53029	20,954	22,317	22,282	22,837	22,817	-35.29	0%	-20.27	0%	-0.035	0%	
30757_30758	6,744	7,029	7,240	8,679	8,789	211.01	3%	109.43	1%	0.211	3%	
30757_30759	5,406	5,999	6,348	7,581	7,757	348.47	6%	176.02	2%	0.348	6%	
30757_30772	7,709	7,967	8,261	9,986	10,153	293.66	4%	167.02	2%	0.294	4%	
30772_53028	65	107	245	618	623	138.17	129%	4.75	1%	0.138	129%	
33027_52257	588	711	1,148	1,353	1,596	436.18	61%	242.27	18%	0.436	61%	
33028_33030	9,368	10,215	10,683	11,398	11,919	468.78	5%	521.77	5%	0.469	5%	
Highways	24241_24242	4,150	7,052	7,872	11,112	12,222	820.24	12%	1,109.31	10%	0.820	12%
	24242_52156	12,477	16,719	17,687	21,548	23,556	967.48	6%	2,007.51	9%	0.967	6%
	30756_40000	18,415	24,272	24,980	31,686	33,853	708.66	3%	2,167.46	7%	0.709	3%
	40000_52156	18,415	24,272	24,980	31,686	33,853	708.66	3%	2,167.46	7%	0.709	3%
	33027_52109	10,514	14,789	14,939	18,479	19,836	150.71	1%	1,357.12	7%	0.151	1%
	52109_52257	7,356	6,067	7,528	8,234	9,540	1,460.67	24%	1,306.51	16%	1.461	24%
	52111_52156	30,892	40,991	42,667	53,234	57,409	1,676.14	4%	4,174.97	8%	1.676	4%
	30756_52157	22,897	30,653	31,814	38,597	40,958	1,160.43	4%	2,361.15	6%	1.160	4%
	52157_52166	40,768	51,509	54,281	65,309	70,334	2,771.80	5%	5,024.78	8%	2.772	5%

Total Segments with 55% Increase, or >

Notes:

1. Street Link ID is a unique identifier for each link in the Hub Plan area. Street Link IDs are obtained by matching street node identifiers from the SFCHAMP model. Street Link ID in this table matches the 'RAMID' in the KMZ file.
2. Annual
3. Pink Highlighting indicates that the increase in traffic from 2020 No Plan conditions to 2020 with Plan conditions is equal to, or greater than, 55% (which correlates to a 2dB noise increase)

APPENDIX E-4

PLAN LEVEL (DIRECT) TRAFFIC NOISE MODELING FOR SEGMENTS WITH A POTENTIAL 2 DB INCREASE (55% INCREASE OR MORE IN TRAFFIC) FROM BASELINE NO-PLAN CONDITIONS

Traffic Noise Modeling for Segments with a 55% (2 dB) or Greater Increase in Traffic Volumes - Year 2020 (direct project impacts)

The Hub Plan
San Francisco, CA

Link	Roadway	Segment Location	Total Daily Traffic Volumes (ADT)	Vehicle Speed mph max. 80	Year 2020 No Plan (Baseline) Scenario 2			Year 2020 With Plan (Baseline + Plan) Scenario 2			Delta (Ldn)
					Noise Levels at 50 Feet			Noise Levels at 50 Feet			
					dBLdn	dB CNEL	dB A Leq1h (loudest hour)	dBLdn	dB CNEL	dB A Leq1h (loudest hour)	
1	Julian Avenue	14th Street to 15th Street	231	25	47.1	47.6	44.7	48.6	49.2	46.8	1.5
2	Plum Street	Mission Street to S Van Ness Avenue	779	25	50.8	51.4	49.5	53.4	54.0	52.3	2.6
3	Lafayette Street	Natoma Street to Howard Street	1126	25	52.2	52.8	51.0	53.9	54.5	52.9	1.7
4	Lafayette Street	Minna Street to Natoma Street	1126	25	52.2	52.8	51.0	53.9	54.5	52.9	1.7
5	Minna Street	Lafayette Street to 11th Street	12	25	43.8	44.0	38.0	43.9	44.2	38.5	0.2
6	Lafayette Street	Mission Street to Minna Street	542	25	49.6	50.2	48.0	52.3	52.9	51.1	2.7
7	Erie Street	East of Mission Street	242	25	47.3	47.7	44.9	49.5	50.1	47.9	2.3
8	12th Street	Market Street to Otis Street	68	25	44.9	45.3	40.9	45.7	46.1	42.4	0.8
9	Jessie Street	South of McCoppin Street	363	25	48.4	48.9	46.4	51.1	51.7	49.8	2.8
10	Brady Street	Colton Street to Otis Street	3283	25	56.4	57.1	55.5	58.3	58.9	57.4	1.8
11	Hickory Street	Franklin Street to Van Ness Avenue	233	25	47.2	47.6	44.8	49.2	49.7	47.4	2.0
12	Linden Street	Gough Street to Franklin Street	35	25	44.3	44.6	39.5	45.7	46.1	42.4	1.4
13	Linden Street	Octavia Street to Gough Street	35	25	44.3	44.6	39.5	45.7	46.1	42.4	1.4
14	Octavia Street	Waller Street to Market Street	107	25	45.6	46.0	42.2	47.3	47.8	45.0	1.7
15	Mission Street	Duboce Street to halfway towards Plum Street	711	25	50.5	51.1	49.1	52.3	52.9	51.1	1.7

Greatest ADT -->

3283.2 Greatest LDN -->

56.4

Greatest LDN --:

58.3

*Therefore, allowable increase for all of these is 5 dB.

Greatest Increase

2.8

Smallest Increase

0.2

APPENDIX E-5

**CUMULATIVE TRAFFIC NOISE RATIO ANALYSIS – PERCENT INCREASE
FROM BASELINE (2020) NO-PLAN TO YEAR 2020 WITH-PLAN
SCENARIO**

AND

**POTENTIAL CUMULATIVELY CONSIDERABLE PLAN CONTRIBUTIONS –
PERCENT INCREASE FROM YEAR 2040 NO-PLAN TO YEAR 2040
WITH-PLAN SCENARIO**

Link-Level Roadway Volumes
The Hub Plan
San Francisco, CA

Link Type	Street Link ID ¹	Roadway	Segment	Existing Scenario	Annual Average Daily Traffic ² [trips/day]				Annual Average Daily Traffic ² [trips/day]				Increase from 2020 No project to 2040 with project	Percent Increase from 2020 No Project to 2040 with Project	Increase from 2040 No project to 2040 with project	Percent increase from 2040 No project to 2040 with project
				2018	2020		2040		2020		2040					
				Scenario 1	Scenario 2	Scenario 3	Scenario 6	Scenario 7	No Plan	With Plan	No Plan	With Plan				
					No Plan	With Plan	No Plan	With Plan	No Plan	With Plan	No Plan	With Plan				
1	24229 24238	11th Street	From Folsom Street to Harrison Street	629	934	1,390	2,396	2,236	455.31	49%	-159.90	-7%	1.301	139%	-0.160	-7%
2	24238 24249	11th Street	From Kissing Street to Folsom Street	3,005	4,821	6,029	8,666	9,743	1,208.06	25%	1,076.95	12%	4.922	102%	1.077	12%
3	24249 24350	11th Street	From Howard Street to Folsom Street	3,005	4,821	6,029	8,666	9,743	1,208.06	25%	1,076.95	12%	4.922	102%	1.077	12%
10	24353 24355	11th Street	From Natoma to Howard Street	1,442	3,215	4,391	5,694	6,737	1,176.34	37%	1,043.32	18%	3.523	110%	1.043	18%
16	24389 30749	12th Street	From Market Street to Otis Street	21	68	115	939	1,004	47.09	69%	64.99	7%	0.937	1379%	0.065	7%
18	24393 24394	Brady Street	From Colton Street to Otis Street	1,985	3,283	5,100	5,836	7,076	1,817.02	55%	1,240.31	21%	3,793	116%	1,240	13%
35	33027 52257	Duboce Avenue	From Mission Street to Otis Street	589	711	1,148	1,353	1,596	436.18	61%	242.27	18%	0.884	124%	0.242	18%
15	24383 51724	Erie Street	East of Mission Street	232	242	526	606	721	283.97	117%	115.29	19%	0.479	198%	0.115	19%
17	24392 50677	Gough Street	From Market Street to Otis Street	307	363	839	863	1,069	476.76	131%	206.16	24%	0.706	195%	0.206	24%
23	24450 24451	Hayes Street	From Franklin Street to Van Ness Avenue	13,650	1,700	2,100	12,400	12,600	400.00	24%	200.00	2%	10,900	641%	0.200	2%
24	24451 25918	Hayes Street	Gough Street to Franklin Street	6,060	6,000	6,600	12,100	12,400	600.00	10%	300.00	2%	6,400	107%	0.300	2%
31	25918 26000	Hayes Street	From Octavia Street to Gough Street	1,020	834	918	4,171	4,229	84.02	10%	57.69	1%	3.394	407%	0.058	1%
22	24449 30706	Hickory Street	From Franklin Street to Van Ness Avenue	182	233	471	348	598	237.69	102%	250.44	72%	0.365	156%	0.250	72%
32	25919 25929	Ivy Street	From Octavia Street to Gough Street	160	376	332	2,358	2,446	-43.67	-12%	88.08	4%	2.070	550%	0.088	4%
20	24416 24423	Jessie Street	From 9th Street to 10th Street	508	520	547	2,630	2,627	26.80	5%	-2.81	0%	2.107	405%	-0.003	0%
13	24362 24364	Lafayette Street	From Mission Street to Minna Street	203	542	1,161	685	1,254	619.23	114%	569.43	83%	0.712	131%	0.569	83%
25	24458 25917	Linden Street	From Gough Street to Franklin Street	88	35	114	145	75	78.94	224%	-69.68	-48%	0.040	113%	-0.070	-48%
30	25917 25970	Linden Street	From Octavia Street to Gough Street	88	35	114	145	75	78.94	224%	-69.68	-48%	0.040	113%	-0.070	-48%
5	24303 24310	Minna Street	From 8th Street to Julia Street	115	127	119	832	858	-8.43	-7%	26.26	3%	0.731	573%	0.026	3%
8	24310 24312	Minna Street	From Howard Street to 8th Street	4.8	34	32	582	618	-11.71	-5%	36.19	6%	0.584	1729%	0.036	6%
12	24362 24363	Minna Street	From Lafayette Street to 11th Street	4.6	12	18	24	34	6.60	57%	9.80	41%	0.022	190%	0.010	41%
6	24309 24414	Mission Street	From 10th Street to Grace Street	9,663	10,491	11,041	42,250	43,969	549.98	5%	1,719.12	4%	33,478	319%	1,719	4%
7	24309 24417	Mission Street	From Grace Street to Washburn Street	9,663	10,493	11,042	42,251	43,970	548.93	5%	1,719.44	4%	33,477	319%	1,719	4%
9	24313 24417	Mission Street	From Washburn Street to 9th Street	9,760	10,514	11,045	41,977	43,612	531.27	5%	1,635.20	4%	33,098	315%	1,635	4%
4	24289 24302	Natoma Street	From 7th Street to 8th Street	95	114	131	266	392	17.46	15%	125.37	47%	0.278	244%	0.125	47%
21	24447 30705	Oak Street	From Franklin Street to Van Ness Avenue	980	1,000	1,500	1,800	2,400	500.00	50%	800.00	44%	1,600	160%	0.800	44%
26	25854 53028	Octavia Street	From Haight Street to Waller Street (SB?)	224	272	414	855	835	142.54	52%	-19.86	-2%	0.563	207%	-0.020	-2%
27	25854 53030	Octavia Street	From Rose Street to Haight Street	100	199	289	755	695	90.10	45%	-60.58	-8%	0.496	250%	-0.061	-8%
28	25856 53030	Octavia Street	From Page Street to Ros Street	100	199	289	770	696	90.10	45%	-73.92	-10%	0.498	251%	-0.074	-10%
33	25925 25969	Octavia Street	From Hayes Street to Linden Street (SB?)	111	121	123	477	542	2.59	2%	65.16	14%	0.421	348%	0.065	14%
34	30772 53028	Octavia Street	SB South of Waller Street	65	107	245	618	623	138.17	129%	4.75	1%	0.516	483%	0.005	1%
29	25903 25908	Page Street	From Buchanan Street to Laguna Street	3,204	3,720	3,926	13,218	13,652	206.11	6%	433.79	3%	9,932	267%	0.434	3%
11	24359 33613	Plum Street	From Mission Street to South Van Ness Avenue	762	779	1,541	1,654	2,098	762.04	98%	443.85	27%	1,320	163%	0.444	27%
19	24401 24406	Stevenson Street	From McCoppin Street to Duboce Avenue	1.0	24	3.7	70	81	-20.36	-84%	10.59	15%	0.057	234%	0.011	15%
14	24377 24378	Valencia Street	From 15th Street to 14th Street	602	1,288	1,435	2,646	2,729	146.82	11%	82.93	3%	1.441	112%	0.083	3%

APPENDIX E-6

CUMULATIVE TRAFFIC NOISE MODELING RESULTS – CUMULATIVE IMPACTS FROM BASELINE (2020) NO-PLAN TO YEAR 2020 WITH-PLAN SCENARIO

AND

POTENTIAL CUMULATIVELY CONSIDERABLE PLAN CONTRIBUTIONS – NONE IDENTIFIED

Roadway	Segment Location	Total Daily Traffic Volumes (ADT) 2020 No Plan	Total Daily Traffic Volumes (ADT) 2040 No Plan	Total Daily Traffic Volumes (ADT) 2040 With Plan	Vehicle Speed mph max. 80	Year 2020 No Plan (Baseline) Scenario 2	Year 2040 With Plan Scenario 7	Year 2040 No Plan Scenario 6	Cumulative Impact	Cumulative Impact? (> 60 Ldn AND increase > 3 dB or < 60 Ldn AND increase > 5?)	Year 2040 With Plan - year 2040 No Plan Delta (Ldn)	Cumulatively Considerable Contribution (> 3 db increase in areas > 60 Ldn, attributable to the project, or >5 dB increase in areas < 60 Ldn, attributable to the project)
						Noise Levels at 50 Feet	Noise Levels at 50 Feet	Noise Levels at 50 Feet	Year 2040 With Plan - Baseline			
						dBLdn	dBLdn	dBLdn	Delta (Ldn)			
11th Street	From Folsom Street to Harrison Street	934	2396	2236	25	51.5	54.9	55.2	3.4	No	0.3	No
11th Street	From Kissing Street to Folsom Street	4821	8666	9743	25	58.0	61.0	60.5	3.0	Yes	-0.5	No
11th Street	From Howard Street to Folsom Street	4821	8666	9743	25	58.0	61.0	60.5	3.0	Yes	-0.5	No
11th Street	From Natoma to Howard Street	3215	5694	6737	25	56.4	59.4	58.7	3.1	No	-0.7	No
12th Street	From Market Street to Otis Street	68	939	1004	25	44.9	51.8	51.5	6.9	Yes	-0.2	No
Brady Street	From Colton Street to Otis Street	3283	5836	7076	15	55.5	58.6	57.8	3.1	No	-0.8	No
DuBoce Avenue	From Mission Street to Otis Street	711	1353	1596	25	50.5	53.5	52.9	3.0	No	-0.6	No
Erie Street	East of Mission Street	242	606	721	15	47.2	50.0	49.5	2.8	No	-0.5	No
Gough Street	From Market Street to Otis Street	363	863	1069	25	48.4	52.0	51.2	3.6	No	-0.8	No
Hayes Street	From Franklin Street to Van Ness Avenue	1700	12400	12600	25	53.8	62.1	62.0	8.3	Yes	-0.1	No
Hayes Street	Gough Street to Franklin Street	6000	12100	12400	25	59.0	62.0	61.9	3.1	Yes	-0.1	No
Hayes Street	From Octavia Street to Gough Street	834	4171	4229	25	51.1	57.5	57.4	6.4	Yes	-0.1	No
Hickory Street	From Franklin Street to Van Ness Avenue	233	348	598	25	47.2	49.9	48.2	2.8	No	-1.7	No
Ivy Street	From Octavia Street to Gough Street	376	2358	2446	25	48.5	55.2	55.1	6.8	Yes	-0.1	No
Jessie Street	From 9th Street to 10th Street	520	2630	2627	25	49.5	55.5	55.5	6.1	Yes	0.0	No
Lafayette Street	From Mission Street to Minna Street	542	685	1254	25	49.6	52.6	50.4	3.0	No	-2.2	No
Linden Street	From Gough Street to Franklin Street	35	145	75	25	44.3	45.0	46.1	0.8	No	1.1	No
Linden Street	From Octavia Street to Gough Street	35	145	75	25	44.3	45.0	46.1	0.8	No	1.1	No
Minna Street	From 8th Street to Julia Street	127	832	858	25	45.9	51.2	51.1	5.3	Yes	-0.1	No
Minna Street	From Howard Street to 8th Street	34	582	618	25	44.3	50.0	49.8	5.8	Yes	-0.2	No
Minna Street	From Lafayette Street to 11th Street	12	24	34	25	43.8	44.3	44.0	0.5	No	-0.2	No
Mission Street	From 10th Street to Grace Street	10491	42250	43969	25	61.3	67.5	67.3	6.2	Yes	-0.2	No
Mission Street	From Grace Street to Washburn Street	10493	42251	43970	25	61.3	67.5	67.3	6.2	Yes	-0.2	No
Mission Street	From Washburn Street to 9th Street	10514	41977	43612	25	61.3	67.5	67.3	6.1	Yes	-0.2	No
Natoma Street	From 7th Street to 8th Street	114	266	392	25	45.7	48.6	47.5	2.9	No	-1.1	No
Oak Street	From Franklin Street to Van Ness Avenue	1000	1800	2600	25	51.8	55.5	54.0	3.7	No	-1.5	No
Octavia Street	From Haight Street to Waller Street (SB?)	272	855	835	25	47.6	51.1	51.2	3.5	No	0.1	No
Octavia Street	From Rose Street to Haight Street	199	755	695	25	46.8	50.4	50.7	3.7	No	0.3	No
Octavia Street	From Page Street to Ros Street	199	770	696	25	46.8	50.5	50.8	3.7	No	0.4	No
Octavia Street	From Hayes Street to Linden Street (SB?)	121	477	542	25	45.8	49.6	49.2	3.8	No	-0.4	No
Octavia Street	SB South of Waller Street	107	618	623	25	45.6	50.1	50.0	4.5	No	0.0	No
Page Street	From Buchanan Street to Laguna Street	3720	13218	13652	25	57.0	62.5	62.3	5.5	Yes	-0.1	No
Plum Street	From Mission Street to South Van Ness Avenue	779	1654	2098	25	50.8	54.6	53.7	3.8	No	-0.9	No
Stevenson Street	From McCoppin Street to DuBoce Avenue	24	70	81	25	44.0	45.1	44.9	1.1	No	-0.2	No
Valencia Street	From 15th Street to 14th Street	1288	2646	2729	25	52.7	55.7	55.6	3.0	No	-0.1	No

Cumulative Impacts -->

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