

# Appendix H

## **Noise Documentation**



# Noise Measurements

**Summary**

File Name on Meter LxT\_Data.072  
 File Name on PC SLM\_0004983\_LxT\_Data\_072.00.lbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 09:11:55  
 Stop 2020-10-13 09:26:55  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:34  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak **A** **C** **Z**  
 Under Range Limit **100.9** 97.9 102.9 dB  
 Under Range Limit **49.9** 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LASeq 65.4 dB  
 LA SE 95.0 dB  
 EAS 350.086 µPa²h  
 EAS8 11.203 mPa²h  
 EAS40 56.014 mPa²h  
 LApeak (max) 2020-10-13 09:20:20 99.3 dB  
 LASmax 2020-10-13 09:18:10 83.5 dB  
 LASmin 2020-10-13 09:15:47 49.8 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 76.2 dB  
 LASeq 65.4 dB  
 LCSeq - LASeq 10.7 dB  
 LAleq 67.8 dB  
 LAeq 65.4 dB  
 LAleq - LAeq 2.4 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	65.4					
Ls(max)	83.5	2020/10/13 9:18:10				
Ls(min)	49.8	2020/10/13 9:15:47				
LPeak(max)	99.3	2020/10/13 9:20:20				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 0.00 %  
 Projected Dose -99.9 0.12 %  
 TWA (Projected) -99.9 41.4 dB  
 TWA (t) -99.9 16.4 dB  
 Lep (t) 50.4 50.4 dB

**Statistics**

LAS5.00	69.8 dB
LAS10.00	67.6 dB
LAS33.30	63.0 dB
LAS50.00	60.6 dB
LAS66.60	56.8 dB
LAS90.00	52.4 dB

**Calibration History**

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.073  
 File Name on PC SLM\_0004983\_LxT\_Data\_073.00.lbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 09:27:52  
 Stop 2020-10-13 09:42:52  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A 100.9 C 97.9 Z 102.9 dB  
 Under Range Limit A 49.9 C 47.9 Z 55.9 dB  
 Noise Floor A 36.7 C 37.4 Z 45.0 dB

**Results**

LASeq 64.9 dB  
 LASE 94.5 dB  
 EAS 310.347 µPa²h  
 EAS8 9.931 mPa²h  
 EAS40 49.655 mPa²h  
 LApeak (max) 2020-10-13 09:28:29 97.3 dB  
 LASmax 2020-10-13 09:28:29 82.7 dB  
 LASmin 2020-10-13 09:40:00 48.0 dB  
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 73.3 dB  
 LASeq 64.9 dB  
 LCSeq - LASeq 8.4 dB  
 LAleq 67.7 dB  
 LAeq 64.9 dB  
 LAleq - LAeq 2.8 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	64.9					
LS(max)	82.7	2020/10/13 9:28:29				
LS(min)	48.0	2020/10/13 9:40:00				
LPeak(max)	97.3	2020/10/13 9:28:29				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 0.00 %  
 Projected Dose -99.9 0.04 %  
 TWA (Projected) -99.9 34.0 dB  
 TWA (t) -99.9 9.0 dB  
 Lep (t) 49.9 49.9 dB

**Statistics**

LAS5.00	71.6 dB
LAS10.00	69.1 dB
LAS33.30	60.0 dB
LAS50.00	57.0 dB
LAS66.60	54.7 dB
LAS90.00	50.4 dB

**Calibration History**

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.074  
 File Name on PC SLM\_0004983\_LxT\_Data\_074.01.lbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 09:44:00  
 Stop 2020-10-13 09:59:00  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A 100.9 C 97.9 Z 102.9 dB  
 Under Range Limit A 49.9 C 47.9 Z 55.9 dB  
 Noise Floor A 36.7 C 37.4 Z 45.0 dB

**Results**

LASeq 64.2 dB  
 LA SE 93.8 dB  
 EAS 265.237 µPa²h  
 EAS8 8.488 mPa²h  
 EAS40 42.438 mPa²h  
 LApeak (max) 2020-10-13 09:55:51 99.3 dB  
 LASmax 2020-10-13 09:51:14 76.9 dB  
 LASmin 2020-10-13 09:55:42 47.4 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 71.7 dB  
 LASeq 64.2 dB  
 LCSeq - LASeq 7.4 dB  
 LAleq 66.9 dB  
 LAeq 64.3 dB  
 LAleq - LAeq 2.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	64.3					
LS(max)	76.9	2020/10/13 9:51:14				
LS(min)	47.4	2020/10/13 9:55:42				
LPeak(max)	99.3	2020/10/13 9:55:51				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 -99.9 %  
 Projected Dose -99.9 -99.9 %  
 TWA (Projected) -99.9 -99.9 dB  
 TWA (t) -99.9 -99.9 dB  
 Lep (t) 49.2 49.2 dB

Statistics

LAS5.00	71.3 dB
LAS10.00	68.7 dB
LAS33.30	61.8 dB
LAS50.00	58.6 dB
LAS66.60	55.9 dB
LAS90.00	51.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1



**Summary**

File Name on Meter LxT\_Data.075  
 File Name on PC SLM\_0004983\_LxT\_Data\_075.01.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 10:00:15  
 Stop 2020-10-13 10:15:15  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 69.5 dB  
 LAE 99.1 dB  
 EAS 901.324 µPa²h  
 EAS8 28.842 mPa²h  
 EAS40 144.212 mPa²h  
 LApeak (max) 2020-10-13 10:09:45 107.7 dB  
 LASmax 2020-10-13 10:09:45 88.0 dB  
 LASmin 2020-10-13 10:02:20 50.3 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 2 5.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 77.0 dB  
 LAseq 69.5 dB  
 LCseq - LAseq 7.5 dB  
 LAleq 73.2 dB  
 LAeq 69.6 dB  
 LAleq - LAeq 3.7 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	69.6					
Ls(max)	88.0	2020/10/13 10:09:45				
Ls(min)	50.3	2020/10/13 10:02:20				
LPeak(max)	107.7	2020/10/13 10:09:45				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 0.01 %  
 Projected Dose -99.9 0.41 %  
 TWA (Projected) -99.9 50.3 dB  
 TWA (t) -99.9 25.3 dB  
 Lep (t) 54.5 54.5 dB

**Statistics**

LAS5.00	74.3 dB
LAS10.00	72.4 dB
LAS33.30	67.2 dB
LAS50.00	64.5 dB
LAS66.60	62.1 dB
LAS90.00	56.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.076  
 File Name on PC SLM\_0004983\_LxT\_Data\_076.02.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 10:18:33  
 Stop 2020-10-13 10:33:33  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 65.2 dB  
 LA SE 94.7 dB  
 EAS 327.647 µPa²h  
 EAS8 10.485 mPa²h  
 EAS40 52.424 mPa²h  
 LApeak (max) 2020-10-13 10:28:04 91.1 dB  
 LASmax 2020-10-13 10:24:07 77.0 dB  
 LASmin 2020-10-13 10:30:56 50.8 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 75.0 dB  
 LASeq 65.2 dB  
 LCseq - LAseq 9.9 dB  
 LAleq 67.0 dB  
 LAeq 65.1 dB  
 LAleq - LAeq 1.9 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	65.1					
Ls(max)	77.0	2020/10/13 10:24:07				
Ls(min)	50.8	2020/10/13 10:30:56				
LPeak(max)	91.1	2020/10/13 10:28:04				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 -99.9 %  
 Projected Dose -99.9 -99.9 %  
 TWA (Projected) -99.9 -99.9 dB  
 TWA (t) -99.9 -99.9 dB  
 Lep (t) 50.1 50.1 dB

**Statistics**

LAS5.00	70.5 dB
LAS10.00	68.9 dB
LAS33.30	64.6 dB
LAS50.00	62.2 dB
LAS66.60	60.4 dB
LAS90.00	56.4 dB

#### Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.077  
 File Name on PC SLM\_0004983\_LxT\_Data\_077.02.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 10:35:13  
 Stop 2020-10-13 10:50:13  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 65.2 dB  
 LA SE 94.7 dB  
 EAS 328.826 µPa²h  
 EAS8 10.522 mPa²h  
 EAS40 52.612 mPa²h  
 LApeak (max) 2020-10-13 10:40:03 98.0 dB  
 LASmax 2020-10-13 10:40:33 81.5 dB  
 LASmin 2020-10-13 10:43:15 47.2 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 73.0 dB  
 LASeq 65.2 dB  
 LCseq - LAseq 7.8 dB  
 LAleq 68.2 dB  
 LAeq 65.2 dB  
 LAleq - LAeq 3.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	65.2					
Ls(max)	81.5	2020/10/13 10:40:33				
Ls(min)	47.2	2020/10/13 10:43:15				
LPeak(max)	98.0	2020/10/13 10:40:03				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 0.00 %  
 Projected Dose -99.9 0.03 %  
 TWA (Projected) -99.9 30.2 dB  
 TWA (t) -99.9 5.2 dB  
 Lep (t) 50.1 50.1 dB

**Statistics**

LAS5.00	70.9 dB
LAS10.00	69.0 dB
LAS33.30	64.1 dB
LAS50.00	61.6 dB
LAS66.60	58.8 dB
LAS90.00	51.5 dB

#### Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.078  
 File Name on PC SLM\_0004983\_LxT\_Data\_078.01.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 10:51:56  
 Stop 2020-10-13 11:06:56  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 74.8 dB  
 LA SE 104.3 dB  
 EAS 3.010 mPa²h  
 EAS8 96.320 mPa²h  
 EAS40 481.601 mPa²h  
 LApeak (max) 2020-10-13 10:57:58 111.9 dB  
 LASmax 2020-10-13 10:57:58 99.1 dB  
 LASmin 2020-10-13 11:01:01 53.4 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 1 7.7 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 79.0 dB  
 LAseq 74.8 dB  
 LCseq - LAseq 4.3 dB  
 LAleq 78.2 dB  
 LAeq 74.8 dB  
 LAleq - LAeq 3.4 dB

Leq  
 Ls(max)  
 Ls(min)  
 LPeak(max)

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	74.8					
Ls(max)	99.1	2020/10/13 10:57:58				
Ls(min)	53.4	2020/10/13 11:01:01				
LPeak(max)	111.9	2020/10/13 10:57:58				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose 0.04 0.05 %  
 Projected Dose 1.26 1.63 %  
 TWA (Projected) 58.5 60.3 dB  
 TWA (t) 33.5 35.3 dB  
 Lep (t) 59.7 59.7 dB

**Statistics**

LAS5.00	73.6 dB
LAS10.00	71.8 dB
LAS33.30	66.7 dB
LAS50.00	63.3 dB
LAS66.60	60.3 dB
LAS90.00	56.1 dB

#### Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1



**Summary**

File Name on Meter LxT\_Data.079  
 File Name on PC SLM\_0004983\_LxT\_Data\_079.02.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 11:08:16  
 Stop 2020-10-13 11:23:16  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 55.8 dB  
 LASE 85.4 dB  
 EAS 38.426 µPa²h  
 EAS8 1.230 mPa²h  
 EAS40 6.148 mPa²h  
 LApeak (max) 2020-10-13 11:08:36 90.3 dB  
 LASmax 2020-10-13 11:11:19 71.6 dB  
 LASmin 2020-10-13 11:21:02 47.3 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 66.9 dB  
 LAseq 55.8 dB  
 LCseq - LAseq 11.0 dB  
 LAleq 57.9 dB  
 LAeq 55.8 dB  
 LAleq - LAeq 2.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	55.8					
Ls(max)	71.6	2020/10/13 11:11:19				
Ls(min)	47.3	2020/10/13 11:21:02				
LPeak(max)	90.3	2020/10/13 11:08:36				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 -99.9 %  
 Projected Dose -99.9 -99.9 %  
 TWA (Projected) -99.9 -99.9 dB  
 TWA (t) -99.9 -99.9 dB  
 Lep (t) 40.8 40.8 dB

**Statistics**

LAS5.00	60.3 dB
LAS10.00	57.8 dB
LAS33.30	54.3 dB
LAS50.00	52.5 dB
LAS66.60	51.0 dB
LAS90.00	48.8 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

**Summary**

File Name on Meter LxT\_Data.080  
 File Name on PC SLM\_0004983\_LxT\_Data\_080.02.ldbin  
 Serial Number 0004983  
 Model SoundTrack LxT®  
 Firmware Version 2.302  
 User  
 Location  
 Job Description  
 Note

**Measurement**

Description  
 Start 2020-10-13 11:31:44  
 Stop 2020-10-13 11:46:44  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0  
 Pre Calibration 2020-10-13 09:07:33  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight A Weighting  
 Peak Weight A Weighting  
 Detector Slow  
 Preamp PRMLxT1  
 Microphone Correction Off  
 Integration Method Exponential  
 Overload 144.6 dB  
 Under Range Peak A C Z  
 100.9 97.9 102.9 dB  
 Under Range Limit 49.9 47.9 55.9 dB  
 Noise Floor 36.7 37.4 45.0 dB

**Results**

LAseq 49.9 dB  
 LASE 79.4 dB  
 EAS 9.761 µPa²h  
 EAS8 312.348 µPa²h  
 EAS40 1.562 mPa²h  
 LApeak (max) 2020-10-13 11:41:20 92.6 dB  
 LASmax 2020-10-13 11:34:41 65.2 dB  
 LASmin 2020-10-13 11:43:55 44.3 dB  
 SEA -99.9 dB  
 LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s  
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 62.1 dB  
 LAseq 49.9 dB  
 LCseq - LAseq 12.2 dB  
 LAleq 52.0 dB  
 LAeq 49.9 dB  
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	49.9					
Ls(max)	65.2	2020/10/13 11:34:41				
Ls(min)	44.3	2020/10/13 11:43:55				
LPeak(max)	92.6	2020/10/13 11:41:20				

# Overloads 0  
 Overload Duration 0.0 s

**Dose Settings**

Dose Name OSHA-1 OSHA-2  
 Exchange Rate 5 5 dB  
 Threshold 90 80 dB  
 Criterion Level 90 90 dB  
 Criterion Duration 8 8 h

**Results**

Dose -99.9 -99.9 %  
 Projected Dose -99.9 -99.9 %  
 TWA (Projected) -99.9 -99.9 dB  
 TWA (t) -99.9 -99.9 dB  
 Lep (t) 34.8 34.8 dB

**Statistics**

LAS5.00	54.2 dB
LAS10.00	52.2 dB
LAS33.30	48.7 dB
LAS50.00	47.8 dB
LAS66.60	47.1 dB
LAS90.00	46.2 dB

#### Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2020-10-13 09:07:33	-50.9	65.5	67.4	65.5
PRMLxT1	2020-10-13 09:07:19	-50.9	69.7	58.2	62.6
PRMLxT1	2020-10-01 11:08:27	-50.9	69.1	61.0	67.6
PRMLxT1	2020-10-01 11:08:12	-50.9	67.6	65.1	56.1
PRMLxT1	2020-01-30 07:34:47	-51.0	59.4	45.8	53.4
PRMLxT1	2020-01-30 07:34:32	-51.0	53.8	51.8	59.6
PRMLxT1	2020-01-14 09:46:24	-50.9	45.2	43.4	49.6
PRMLxT1	2020-01-14 09:46:10	-50.9	43.1	59.9	64.0
PRMLxT1	2020-01-14 07:50:06	-51.0	72.8	65.4	62.2
PRMLxT1	2020-01-14 07:49:43	-51.0	67.9	66.8	61.8
PRMLxT1	2019-11-20 08:22:46	-50.7	58.8	56.1	56.6
PRMLxT2B	2020-09-28 17:21:56	-50.9	67.0	56.5	58.5
PRMLxT2B	2020-09-28 17:21:41	-50.9	65.6	69.2	73.5
PRMLxT2B	2020-09-10 08:43:42	-50.8	46.9	47.4	65.7
PRMLxT2B	2020-09-10 08:43:27	-50.8	65.3	48.9	50.5
PRMLxT2B	2020-03-11 07:42:14	-50.7	75.1	71.8	76.4
PRMLxT2B	2020-03-11 07:42:00	-50.7	88.1	80.8	79.2
PRMLxT2B	2020-02-13 08:18:03	-50.5	50.8	59.2	43.7
PRMLxT2B	2020-02-13 08:17:08	-50.5	46.9	53.2	54.1

# Construction

**Project: 11111 Jefferson**  
**Construction Noise Impact on Sensitive Receptors**



Parameters	
Construction Hours:	6 Daytime hours (7 am to 7 pm)
	0 Evening hours (7 pm to 10 pm)
	0 Nighttime hours (10 pm to 7 am)
Leq to L10 factor:	3

Construction Phase Equipment Type	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	R1					R2					R3					R4					R5					
				Distance (ft)	Lmax	Leq	L10	Estimated Noise Shielding, dBA	Distance (ft)	Lmax	Leq	L11	Estimated Noise Shielding, dBA	Distance (ft)	Lmax	Leq	L12	Estimated Noise Shielding, dBA	Distance (ft)	Lmax	Leq	L11	Estimated Noise Shielding, dBA	Distance (ft)	Lmax	Leq	L12	Estimated Noise Shielding, dBA	
				<b>Demolition</b>				<b>89</b>	<b>82</b>				<b>87</b>	<b>80</b>				<b>76</b>	<b>70</b>				<b>78</b>	<b>71</b>					<b>82</b>
Concrete Saw	1	90	20%	80	86	79	82	0	80	85	78	81	1	80	75	68	71	11	120	76	69	72	6	180	79	72	75	0	
Jackhammer	1	89	20%	90	85	78	81	0	80	81	74	77	4	80	71	64	67	14	120	72	65	68	9	180	78	71	74	0	
Dozer	1	82	40%	230	69	65	68	0	280	64	60	63	3	340	52	48	51	13	550	53	49	52	8	580	61	57	60	0	
Excavator	3	81	40%	230	73	69	72	0	280	69	65	68	2	340	57	53	56	12	550	58	54	57	7	580	64	61	64	0	
Tractor/Loader/Backhoe	2	80	25%	230	70	64	67	0	280	68	62	65	0	340	56	50	53	10	550	57	51	54	5	580	62	56	59	0	
<b>Site Preparation</b>				<b>81</b>	<b>76</b>				<b>81</b>	<b>76</b>				<b>70</b>	<b>66</b>				<b>75</b>	<b>71</b>				<b>74</b>	<b>69</b>				
Dozer	1	82	40%	80	78	74	77	0	80	78	74	77	0	80	68	64	67	10	120	74	70	73	0	180	77	67	70	0	
Tractor/Loader/Backhoe	1	80	25%	80	76	70	73	0	80	76	70	73	0	80	66	60	63	10	120	67	61	64	5	180	69	63	66	0	
Tractor/Loader/Backhoe	5	80	25%	230	74	68	71	0	280	72	66	69	0	340	60	54	57	10	550	61	55	58	5	580	66	60	63	0	
<b>Grading/Excavation</b>				<b>84</b>	<b>79</b>				<b>84</b>	<b>79</b>				<b>83</b>	<b>79</b>				<b>80</b>	<b>75</b>				<b>77</b>	<b>72</b>				
Graders	1	85	40%	80	81	77	80	0	80	81	77	80	0	80	81	77	80	0	120	77	73	76	0	180	74	70	73	0	
Compactor (ground)	1	83	20%	80	79	72	75	0	80	79	72	75	0	80	79	72	75	0	120	75	68	71	0	180	72	65	68	0	
Dozer	1	82	40%	230	69	65	68	0	280	67	63	66	0	340	65	61	64	0	550	61	57	60	0	580	61	57	60	0	
Excavator	1	81	40%	230	68	64	67	0	280	66	62	65	0	340	64	60	63	0	550	60	56	59	0	580	60	56	59	0	
Tractor/Loader/Backhoe	6	80	25%	230	75	69	72	0	280	73	67	70	0	340	71	65	68	0	550	67	61	64	0	580	66	60	63	0	
Rubber Tired Loader	1	79	40%	230	66	62	65	0	280	64	60	63	0	340	62	58	61	0	550	58	54	57	0	580	58	54	57	0	
<b>Drainage/Utilities/Trenching</b>				<b>85</b>	<b>81</b>				<b>85</b>	<b>81</b>				<b>84</b>	<b>81</b>				<b>81</b>	<b>78</b>				<b>78</b>	<b>74</b>				
Other Equipment	2	85	50%	80	84	81	84	0	80	84	81	84	0	80	84	81	84	0	120	80	77	80	0	180	77	74	77	0	
Other Equipment	1	85	50%	230	72	69	72	0	280	70	67	70	0	340	68	65	68	0	550	64	61	64	0	580	64	61	64	0	
Compactor (ground)	2	83	20%	230	73	66	69	0	280	71	64	67	0	340	69	62	65	0	550	65	58	61	0	580	65	58	61	0	
Tractor/Loader/Backhoe	5	80	25%	230	74	68	71	0	280	72	66	69	0	340	70	64	67	0	550	66	60	63	0	580	66	60	63	0	
Forklift	2	75	10%	230	65	55	58	0	280	63	53	56	0	340	61	51	54	0	550	57	47	50	0	580	57	47	50	0	
<b>Foundations/Concrete Pour</b>				<b>90</b>	<b>83</b>				<b>89</b>	<b>83</b>				<b>89</b>	<b>82</b>				<b>86</b>	<b>79</b>				<b>82</b>	<b>76</b>				
Concrete Saw	2	90	20%	80	89	82	85	0	80	89	82	85	0	80	89	82	85	0	120	85	78	81	0	180	82	75	78	0	
Concrete Saw	1	90	20%	230	77	70	73	0	280	75	68	71	0	340	73	66	69	0	550	69	62	65	0	580	69	62	65	0	
Other Equipment	1	85	50%	230	72	69	72	0	280	70	67	70	0	340	68	65	68	0	550	64	61	64	0	580	64	61	64	0	
Compactor (ground)	2	83	20%	230	73	66	69	0	280	71	64	67	0	340	69	62	65	0	550	65	58	61	0	580	65	58	61	0	
Cranes	1	81	16%	230	68	60	63	0	280	66	58	61	0	340	64	56	59	0	550	60	52	55	0	580	60	52	55	0	
Generator Sets	1	81	50%	230	68	65	68	0	280	66	63	66	0	340	64	61	64	0	550	60	57	60	0	580	60	57	60	0	
Pumps	2	81	50%	230	71	68	71	0	280	69	66	69	0	340	67	64	67	0	550	63	60	63	0	580	63	60	63	0	
Tractor/Loader/Backhoe	3	80	25%	230	72	65	68	0	280	70	64	67	0	340	68	62	65	0	550	64	58	61	0	580	63	57	60	0	
Tractor/Loader/Backhoe	4	80	25%	230	73	67	70	0	280	71	65	68	0	340	68	62	65	1	550	65	59	62	0	580	65	59	62	0	
Forklift	2	75	10%	230	65	55	58	0	280	63	53	56	0	340	60	50	53	1	550	57	47	50	0	580	57	47	50	0	
Welders	1	74	40%	230	61	57	60	0	280	59	55	58	0	340	56	52	55	1	550	53	49	52	0	580	53	49	52	0	
<b>Building Construction</b>				<b>86</b>	<b>83</b>				<b>85</b>	<b>82</b>				<b>85</b>	<b>82</b>				<b>81</b>	<b>78</b>				<b>79</b>	<b>75</b>				
Other Equipment	2	85	50%	80	84	81	84	0	80	84	81	84	0	80	84	81	84	0	120	80	77	80	0	180	77	74	77	0	
Other Equipment	3	85	50%	230	77	74	77	0	280	75	72	75	0	340	73	70	73	0	550	69	66	69	0	580	68	65	68	0	
Cranes	1	81	16%	230	68	60	63	0	280	66	58	61	0	340	64	56	59	0	550	60	52	55	0	580	60	52	55	0	
Generator Sets	3	81	50%	230	73	70	73	0	280	71	68	71	0	340	69	66	69	0	550	65	62	65	0	580	64	61	64	0	
Pumps	4	81	50%	230	74	71	74	0	280	72	69	72	0	340	70	67	70	0	550	66	63	66	0	580	66	63	66	0	
Tractor/Loader/Backhoe	4	80	25%	230	73	67	70	0	280	71	65	68	0	340	69	63	66	0	550	65	59	62	0	580	65	59	62	0	
Air Compressor	3	78	40%	230	70	66	69	0	280	68	64	67	0	340	66	62	65	0	550	62	58	61	0	580	61	58	61	0	
Air Compressor	4	78	40%	230	71	67	70	0	280	68	64	67	1	340	67	63	66	0	550	63	59	62	0	580	63	59	62	0	
Air Compressor	3	78	40%	230	70	66	69	0	280	68	62	65	2	340	66	62	65	0	550	62	58	61	0	580	61	58	61	0	
Forklift	2	75	10%	230	65	55	58	0	280	61	51	54	2	340	61	51	54	0	550	57	47	50	0	580	57	47	50	0	
Welders	1	74	40%	230	61	57	60	0	280	59	55	58	0	340	57	53	56	0	550	53	49	52	0	580	53	49	52	0	
<b>Paving</b>				<b>81</b>	<b>77</b>				<b>80</b>	<b>76</b>				<b>79</b>	<b>75</b>				<b>76</b>	<b>72</b>				<b>73</b>	<b>69</b>				
Cement and Mortar Mixers	2	79	40%	80	78	74	77	0	80	78	74	77	0	80	78	74	77	0	120	74	70	73	0	180	71	67	7		

Project: 11111 Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

<b>Construction Hours:</b>	8 Daytime hours (7 am to 7 pm) 0 Evening hours (7 pm to 10 pm) 0 Nighttime hours (10 pm to 7 am)
<b>Leq to L10 factor</b>	3

Construction Phase Equipment Type	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	R6				R7				R8				R9							
				Distance (ft)		Estimated Noise Shielding, dBA		Distance (ft)		Estimated Noise Shielding, dBA		Distance (ft)		Estimated Noise Shielding, dBA		Distance (ft)		Estimated Noise Shielding, dBA					
				Lmax	Leq	L13	L11	Lmax	Leq	L12	L10	Lmax	Leq	L12	L10	Lmax	Leq	L13	L10				
<b>Demolition</b>				<b>87</b>	<b>80</b>			<b>87</b>	<b>80</b>			<b>78</b>	<b>71</b>			<b>76</b>	<b>70</b>						
Concrete Saw	1	90	20%	100	84	77	80	0	100	84	77	80	0	300	74	67	70	0	340	73	66	69	0
Jackhammer	1	89	20%	100	83	76	79	0	100	83	76	79	0	300	73	66	69	0	340	72	65	68	0
Dozer	1	82	40%	400	64	60	63	0	230	69	65	68	0	475	62	58	61	0	580	61	57	60	0
Excavator	3	81	40%	400	68	64	67	0	230	73	69	72	0	475	66	62	65	0	580	64	61	64	0
Tractor/Loader/Backhoe	2	80	25%	400	65	59	62	0	230	70	64	67	0	475	63	57	60	0	580	62	56	59	0
<b>Site Preparation</b>				<b>79</b>	<b>74</b>				<b>79</b>	<b>74</b>				<b>71</b>	<b>66</b>				<b>70</b>	<b>65</b>			
Dozer	1	82	40%	100	76	72	75	0	100	76	72	75	0	300	66	62	65	0	340	65	61	64	0
Tractor/Loader/Backhoe	1	80	25%	100	74	68	71	0	100	74	68	71	0	300	64	58	61	0	340	63	57	60	0
Tractor/Loader/Backhoe	5	80	25%	400	69	63	66	0	230	74	68	71	0	475	67	61	64	0	580	66	60	63	0
<b>Grading/Excavation</b>				<b>82</b>	<b>77</b>				<b>82</b>	<b>77</b>				<b>74</b>	<b>69</b>				<b>73</b>	<b>68</b>			
Graders	1	85	40%	100	79	75	78	0	100	79	75	78	0	300	69	65	68	0	340	68	64	67	0
Compactor (ground)	1	83	20%	100	77	70	73	0	100	77	70	73	0	300	67	60	63	0	340	66	59	62	0
Dozer	1	82	40%	400	64	60	63	0	230	69	65	68	0	475	62	58	61	0	580	61	57	60	0
Excavator	1	81	40%	400	63	59	62	0	230	68	64	67	0	475	61	57	60	0	580	60	56	59	0
Tractor/Loader/Backhoe	6	80	25%	400	70	64	67	0	230	75	69	72	0	475	68	62	65	0	580	66	60	63	0
Rubber Tired Loader	1	79	40%	400	61	57	60	0	230	66	62	65	0	475	59	55	58	0	580	58	54	57	0
<b>Drainage/Utilities/Trenching</b>				<b>83</b>	<b>79</b>				<b>83</b>	<b>80</b>				<b>75</b>	<b>71</b>				<b>74</b>	<b>70</b>			
Other Equipment	2	85	50%	100	82	79	82	0	100	82	79	82	0	300	72	69	72	0	340	71	68	71	0
Other Equipment	1	85	50%	400	67	64	67	0	230	72	69	72	0	475	65	62	65	0	580	64	61	64	0
Compactor (ground)	2	83	20%	400	68	61	64	0	230	73	66	69	0	475	66	59	62	0	580	65	58	61	0
Tractor/Loader/Backhoe	5	80	25%	400	69	63	66	0	230	74	68	71	0	475	67	61	64	0	580	66	60	63	0
Forklift	2	75	10%	400	60	50	53	0	230	65	55	58	0	475	58	48	51	0	580	57	47	50	0
<b>Foundations/Concrete Pour</b>				<b>87</b>	<b>81</b>				<b>88</b>	<b>81</b>				<b>79</b>	<b>73</b>				<b>78</b>	<b>72</b>			
Concrete Saw	2	90	20%	100	87	80	83	0	100	87	80	83	0	300	77	70	73	0	340	76	69	72	0
Concrete Saw	1	90	20%	400	72	65	68	0	230	77	74	77	0	475	70	63	66	0	580	69	62	65	0
Other Equipment	1	85	50%	400	67	64	67	0	230	72	69	72	0	475	65	62	65	0	580	64	61	64	0
Compactor (ground)	2	83	20%	400	68	61	64	0	230	73	66	69	0	475	66	59	62	0	580	65	58	61	0
Cranes	1	81	16%	400	63	55	58	0	230	68	60	63	0	475	61	53	56	0	580	60	52	55	0
Generator Sets	1	81	50%	400	63	60	63	0	230	68	65	68	0	475	61	58	61	0	580	60	57	60	0
Pumps	2	81	50%	400	66	63	66	0	230	71	68	71	0	475	64	61	64	0	580	63	60	63	0
Tractor/Loader/Backhoe	3	80	25%	400	67	61	64	0	230	72	65	68	0	475	65	59	62	0	580	63	57	60	0
Tractor/Loader/Backhoe	4	80	25%	400	68	62	65	0	230	73	67	70	0	475	66	60	63	0	580	65	59	62	0
Forklift	2	75	10%	400	60	50	53	0	230	65	55	58	0	475	58	48	51	0	580	57	47	50	0
Welders	1	74	40%	400	56	52	55	0	230	61	57	60	0	475	54	50	53	0	580	53	49	52	0
<b>Building Construction</b>				<b>83</b>	<b>80</b>				<b>85</b>	<b>81</b>				<b>77</b>	<b>74</b>				<b>76</b>	<b>72</b>			
Other Equipment	2	85	50%	100	82	79	82	0	100	82	79	82	0	300	72	69	72	0	340	71	68	71	0
Other Equipment	3	85	50%	400	72	69	72	0	230	77	74	77	0	475	70	67	70	0	580	68	65	68	0
Cranes	1	81	16%	400	63	55	58	0	230	68	60	63	0	475	61	53	56	0	580	60	52	55	0
Generator Sets	3	81	50%	400	68	65	68	0	230	73	70	73	0	475	66	63	66	0	580	64	61	64	0
Pumps	4	81	50%	400	69	66	69	0	230	74	71	74	0	475	67	64	67	0	580	65	63	66	0
Tractor/Loader/Backhoe	4	80	25%	400	68	62	65	0	230	73	67	70	0	475	66	60	63	0	580	65	59	62	0
Air Compressor	3	78	40%	400	65	61	64	0	230	70	66	69	0	475	63	59	62	0	580	61	58	61	0
Air Compressor	4	78	40%	400	66	62	65	0	230	71	67	70	0	475	64	60	63	0	580	63	59	62	0
Air Compressor	3	78	40%	400	65	61	64	0	230	70	66	69	0	475	63	59	62	0	580	61	58	61	0
Forklift	2	75	10%	400	60	50	53	0	230	65	55	58	0	475	58	48	51	0	580	57	47	50	0
Welders	1	74	40%	400	56	52	55	0	230	61	57	60	0	475	54	50	53	0	580	53	49	52	0
<b>Paving</b>				<b>78</b>	<b>74</b>				<b>80</b>	<b>76</b>				<b>72</b>	<b>68</b>				<b>71</b>	<b>67</b>			
Cement and Mortar Mixers	2	79	40%	100	76	72	75	0	100	76	72	75	0	300	66	62	65	0	340	65	61	64	0
Other Equipment	2	85	50%	400	70	67	70	0	230	75	72	75	0	475	68	65	68	0	580	67	64	67	0
Roller	2	80	20%	400	65	68	61	0	230	70	63	66	0	475	63	56	59	0	580	62	55	58	0
Paver	1	77	50%	400	59	56	59	0	230	64	61	64	0	475	57	54	57	0	580	56	53	56	0
Vacuum Street Sweeper	1	82	10%	400	64	54	57	0	230	69	59	62	0	475	62	52	55	0	580	61	51	54	0
Tractor/Loader/Backhoe	1	80	25%	400	62	56	59	0	230	67	61	64	0	475	60	54	57	0	580	59	53	56	0
<b>Architectural Coating</b>				<b>78</b>	<b>70</b>				<b>79</b>	<b>71</b>				<b>70</b>	<b>63</b>				<b>68</b>	<b>61</b>			
Vacuum Street Sweeper	1	82	10%	100	76	66	69	0	100	76	66	69	0	300	66	56	59	0	340	65	55	58	0
Tractor/Loader/Backhoe	1	80	25%	100	74	68	71	0	100	74	68	71	0	300	64	58	61	0	340	63	57	60	0
Cement and Mortar Mixers	1	79	40%	400	61	57	60	0	230	66	62	65	0	475	59	55	58	0	580	58	54	57	0
Air Compressor	1	78	40%	400	60	56	59	0	230	65	61	64	0	475	58	54	57	0	580	57	53	56	0
Forklift	1	75</																					

**TRAFFIC NOISE ANALYSIS TOOL**



11111 Jefferson Blvd  
 Construction  
 Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Construction Traffic	Hard	30	40	40	35	120	0	38	65.2	65.5

**Model Notes:**

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.



# Operations

**11111 Jefferson**

**Open Space Noise Calculation  
Summary**

<b>Outdoor Space</b>	<b>Receptor</b>	<b>Estimated Leq</b>	<b>Existing Ambient</b>	<b>Ambient + Project</b>	<b>Threshold</b>	<b>Exceed?</b>
Machado Park	R1	42.1	65.4	65.4	70.4	No
	R2	50.9	64.9	65.1	69.9	No
	R3	50.9	64.3	64.5	69.3	No
	R4	46.6	69.6	69.6	74.6	No
	R5	43.8	65.1	65.1	70.1	No
	R6	48.9	65.2	65.3	70.2	No
	R7	25.4	74.8	74.8	79.8	No
	R8	27.1	55.8	55.8	60.8	No
	R9	33.4	49.9	50.0	54.9	No
Paseo Courtyard	R1	40.4	65.4	65.4	70.4	No
	R2	39.1	64.9	64.9	69.9	No
	R3	36.9	64.3	64.3	69.3	No
	R4	35.0	69.6	69.6	74.6	No
	R5	34.8	65.1	65.1	70.1	No
	R6	42.8	65.2	65.2	70.2	No
	R7	59.5	74.8	74.9	79.8	No
	R8	45.0	55.8	56.1	60.8	No
	R9	34.0	49.9	50.0	54.9	No
Entry Courtyard	R1	41.5	65.4	65.4	70.4	No
	R2	44.1	64.9	64.9	69.9	No
	R3	42.2	64.3	64.3	69.3	No
	R4	39.5	69.6	69.6	74.6	No
	R5	44.3	65.1	65.1	70.1	No
	R6	54.4	65.2	65.6	70.2	No
	R7	58.0	74.8	74.9	79.8	No
	R8	53.5	55.8	57.8	60.8	No
	R9	37.3	49.9	50.1	54.9	No
Residential Amenities	R1	48.2	65.4	65.5	70.4	No
	R2	48.2	64.9	65.0	69.9	No
	R3	42.7	64.3	64.3	69.3	No
	R4	39.4	69.6	69.6	74.6	No
	R5	39.1	65.1	65.1	70.1	No
	R6	43.8	65.2	65.2	70.2	No
	R7	48.2	74.8	74.8	79.8	No
	R8	41.0	55.8	55.9	60.8	No
	R9	37.9	49.9	50.2	54.9	No
Machado Park - Event	R1	56.3	65.4	65.9	70.4	No
	R2	65.1	64.9	68.0	69.9	No
	R3	65.1	64.3	67.7	69.3	No
	R4	60.8	69.6	70.1	74.6	No
	R5	58.0	65.1	65.9	70.1	No
	R6	63.1	65.2	67.3	70.2	No
	R7	39.6	74.8	74.8	79.8	No
	R8	41.3	55.8	56.0	60.8	No
	R9	47.6	49.9	51.9	54.9	No

**11111 Jefferson****Open Space Noise Calculation  
Summary**

<b>Outdoor Space</b>	<b>Receptor</b>	<b>Estimated Leq</b>	<b>Existing Ambient</b>	<b>Ambient + Project</b>	<b>Threshold</b>	<b>Exceed?</b>
Total Composite Open Space - no events	R1	50.3	65.4	65.5	70.4	No
	R2	53.5	64.9	65.2	69.9	No
	R3	52.1	64.3	64.6	69.3	No
	R4	48.3	69.6	69.6	74.6	No
	R5	47.9	65.1	65.2	70.1	No
	R6	56.0	65.2	65.7	70.2	No
	R7	62.0	74.8	75.0	79.8	No
	R8	54.3	55.8	58.1	60.8	No
	R9	42.1	49.9	50.6	54.9	No

**11111 Jefferson**  
**Open Space Noise Calculation**

Machado Park							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) <sup>1</sup>	Reference Noise Level (dBA) <sup>1</sup>	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	200						
Females (Adult)	50	25	3	55	69.0	50	44.5
Males (Adult)	50	25	3	58	72.0	50	47.5
Children	100	100	3	58	78.0	50	53.6
<b>Total</b>	<b>200</b>	<b>150</b>	-	-	<b>79.4</b>	-	<b>54.9</b>

Source:  
<sup>1</sup> American Journal of Audiology Vol. 7, p. 3 (1998)

Paseo Courtyard							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) <sup>1</sup>	Reference Noise Level (dBA) <sup>1</sup>	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	200						
Females (Adult)	50	25	3	55	69.0	50	44.5
Males (Adult)	50	25	3	58	72.0	50	47.5
Children	100	50	3	58	75.0	50	50.6
<b>Total</b>	<b>200</b>	<b>100</b>	-	-	<b>77.4</b>	-	<b>53.0</b>
Amplified Music (75 dBA Leq at 25 feet)			25	75	75.0	50	69.0

**Total Noise Level 69.1**

Source:  
<sup>1</sup> American Journal of Audiology Vol. 7, p. 3 (1998)

Entry Courtyard							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) <sup>1</sup>	Reference Noise Level (dBA) <sup>1</sup>	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	200						
Females (Adult)	50	25	3	55	69.0	50	44.5
Males (Adult)	50	25	3	58	72.0	50	47.5
Children	100	50	3	58	75.0	50	50.6
<b>Total</b>	<b>200</b>	<b>100</b>	-	-	<b>77.4</b>	-	<b>53.0</b>
Amplified Music (75 dBA Leq at 25 feet)			25	75	75.0	50	69.0

**Total Noise Level 69.1**

Source:  
<sup>1</sup> American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Amenity							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) <sup>1</sup>	Reference Noise Level (dBA) <sup>1</sup>	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	200						
Females (Adult)	50	25	3	55	69.0	50	44.5
Males (Adult)	50	25	3	58	72.0	50	47.5
Children	100	50	3	58	75.0	50	50.6
<b>Total</b>	<b>200</b>	<b>100</b>	-	-	<b>77.4</b>	-	<b>53.0</b>
Amplified Music (75 dBA Leq at 25 feet)			25	75	75.0	50	69.0

**Total Noise Level 69.1**

Source:  
<sup>1</sup> American Journal of Audiology Vol. 7, p. 3 (1998)

Machado Park Special Event							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) <sup>1</sup>	Reference Noise Level (dBA) <sup>1</sup>	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	200						
Females (Adult)	50	25	3	55	69.0	50	44.5
Males (Adult)	50	25	3	58	72.0	50	47.5
Children	100	100	3	58	78.0	50	53.6
<b>Total</b>	<b>200</b>	<b>150</b>	-	-	<b>79.4</b>	-	<b>54.9</b>
Amplified Music (75 dBA Leq at 25 feet)			25	75	75.0	50	69.0

Total Noise  
Level 69.1

# Project: 11111 Jefferson

## Machado Park

Receptor Location	R1	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R1	220	ft
	-13	dBA
	42.1	dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R1	42.1	dBA

Receptor Location	R2	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R2	80	ft
	-4	dBA
	50.9	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings		dBA
Noise Levels at R2	50.9	dBA

Receptor Location	R3	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R3	80	ft
	-4	dBA
	50.9	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R3	50.9	dBA

Receptor Location	R4	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R4	130	ft
	-8	dBA
	46.6	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R4	46.6	dBA

Receptor Location	R5	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R5	180	ft
	-11	dBA
	43.8	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R5	43.8	dBA

Receptor Location	R6	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R6	100	ft
	-6	dBA
	48.9	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R6	48.9	dBA

Receptor Location	R7	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R7	475	ft
	-20	dBA
	35.4	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R7	25.4	dBA

Receptor Location	R8	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R8	390	ft
	-18	dBA
	37.1	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R8	27.1	dBA

Receptor Location	R9	
Machado Park Noise Level	54.9	dBA
Reference Distance	50	ft
Distance to R9	337	ft
	-17	dBA
	38.4	dBA
		dBA
Noise Reduction by Existing/Proposed Buildings	5	dBA
Noise Levels at R9	33.4	dBA

# Project: 11111 Jefferson

## Machado Park - Special Event

Receptor Location		<b>R1</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R1	220	ft	
	<b>-13</b>	dBA	
	56.3	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R1	<b>56.3</b>	dBA	

Receptor Location		<b>R2</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R2	80	ft	
	<b>-4</b>	dBA	
	65.1	dBA	
Noise Reduction by Existing/Proposed Buildings			
		dBA	
Noise Levels at R2	<b>65.1</b>	dBA	

Receptor Location		<b>R3</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R3	80	ft	
	<b>-4</b>	dBA	
	65.1	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R3	<b>65.1</b>	dBA	

Receptor Location		<b>R4</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R4	130	ft	
	<b>-8</b>	dBA	
	60.8	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R4	<b>60.8</b>	dBA	

Receptor Location		<b>R5</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R5	180	ft	
	<b>-11</b>	dBA	
	58.0	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R5	<b>58.0</b>	dBA	

Receptor Location		<b>R6</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R6	100	ft	
	<b>-6</b>	dBA	
	63.1	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R6	<b>63.1</b>	dBA	

Receptor Location		<b>R7</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R7	475	ft	
	<b>-20</b>	dBA	
	49.6	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R7	<b>39.6</b>	dBA	

Receptor Location		<b>R8</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R8	390	ft	
	<b>-18</b>	dBA	
	51.3	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R8	<b>41.3</b>	dBA	

Receptor Location		<b>R9</b>	
Machado Park Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R9	337	ft	
	<b>-17</b>	dBA	
	52.6	dBA	
Noise Reduction by Existing/Proposed Buildings			
	5	dBA	
Noise Levels at R9	<b>47.6</b>	dBA	

# Project: 11111 Jefferson

## Paseo Courtyard

Receptor Location		R1	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R1	430	ft	
	-19	dBA	
	50.4	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R1	40.4	dBA	

Receptor Location		R2	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R2	500	ft	
	-20	dBA	
	49.1	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R2	39.1	dBA	

Receptor Location		R3	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R3	645	ft	
	-22	dBA	
	46.9	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R3	36.9	dBA	

Receptor Location		R4	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R4	800	ft	
	-24	dBA	
	45.0	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R4	35.0	dBA	

Receptor Location		R5	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R5	815	ft	
	-24	dBA	
	44.8	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R5	34.8	dBA	

Receptor Location		R6	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R6	580	ft	
	-21	dBA	
	47.8	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	5	dBA	
Noise Levels at R6	42.8	dBA	

Receptor Location		R7	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R7	150	ft	
	-10	dBA	
	59.5	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R7	59.5	dBA	

Receptor Location		R8	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R8	450	ft	
	-19	dBA	
	50.0	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	5	dBA	
Noise Levels at R8	45.0	dBA	

Receptor Location		R9	
Paseo Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R9	900	ft	
	-25	dBA	
	44.0	dBA	
		dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R9	34.0	dBA	



# Project: 11111 Jefferson

## Entry Courtyard

Receptor Location		R1	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R1	380	ft	
	-18	dBA	
	51.5	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R1	41.5	dBA	

Receptor Location		R2	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R2	280	ft	
	-15	dBA	
	54.1	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R2	44.1	dBA	

Receptor Location		R3	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R3	350	ft	
	-17	dBA	
	52.2	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R3	42.2	dBA	

Receptor Location		R4	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R4	475	ft	
	-20	dBA	
	49.5	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R4	39.5	dBA	

Receptor Location		R5	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R5	490	ft	
	-20	dBA	
	49.3	dBA	
Noise Reduction by Existing/Proposed Buildings			
	5	dBA	
Noise Levels at R5	44.3	dBA	

Receptor Location		R6	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R6	270	ft	
	-15	dBA	
	54.4	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R6	54.4	dBA	

Receptor Location		R7	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R7	180	ft	
	-11	dBA	
	58.0	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R7	58.0	dBA	

Receptor Location		R8	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R8	300	ft	
	-16	dBA	
	53.5	dBA	
Noise Reduction by Existing/Proposed Buildings			
	0	dBA	
Noise Levels at R8	53.5	dBA	

Receptor Location		R9	
Entry Courtyard Noise Level	69.1	dBA	
Reference Distance	50	ft	
Distance to R9	615	ft	
	-22	dBA	
	47.3	dBA	
Noise Reduction by Existing/Proposed Buildings			
	10	dBA	
Noise Levels at R9	37.3	dBA	

# Project: 11111 Jefferson

## Residential Amenity

Receptor Location	R1	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R1	175	ft
	-11	dBA
	58.2	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R1	<b>48.2</b>	dBA

Receptor Location	R2	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R2	175	ft
	-11	dBA
	58.2	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R2	<b>48.2</b>	dBA

Receptor Location	R3	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R3	330	ft
	-16	dBA
	52.7	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R3	<b>42.7</b>	dBA

Receptor Location	R4	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R4	480	ft
	-20	dBA
	49.4	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R4	<b>39.4</b>	dBA

Receptor Location	R5	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R5	500	ft
	-20	dBA
	49.1	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R5	<b>39.1</b>	dBA

Receptor Location	R6	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R6	290	ft
	-15	dBA
	53.8	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R6	<b>43.8</b>	dBA

Receptor Location	R7	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R7	175	ft
	-11	dBA
	58.2	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R7	<b>48.2</b>	dBA

Receptor Location	R8	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R8	400	ft
	-18	dBA
	51.0	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R8	<b>41.0</b>	dBA

Receptor Location	R9	
Residential Amenity Noise Level	69.1	dBA
Reference Distance	50	ft
Distance to R9	575	ft
	-21	dBA
	47.9	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R9	<b>37.9</b>	dBA

**11111 Jefferson**

**Parking Noise  
Summary**

<b>Outdoor Space</b>	<b>Receptor</b>	<b>Estimated Leq</b>	<b>Existing Ambient</b>	<b>Ambient + Project</b>	<b>Threshold</b>	<b>Exceed?</b>
Machado - West	R1	28.8	65.4	65.4	70.4	No
	R2	36.8	64.9	64.9	69.9	No
	R3	41.7	64.3	64.3	69.3	No
	R4	31.8	69.6	69.6	74.6	No
	R5	24.5	65.1	65.1	70.1	No
	R6	22.9	65.2	65.2	70.2	No
	R7	16.5	74.8	74.8	79.8	No
	R8	15.7	55.8	55.8	60.8	No
	R9	23.6	49.9	49.9	54.9	No
Machado - East	R1	43.7	65.4	65.4	70.4	No
	R2	41.4	64.9	64.9	69.9	No
	R3	34.3	64.3	64.3	69.3	No
	R4	30.1	69.6	69.6	74.6	No
	R5	29.2	65.1	65.1	70.1	No
	R6	21.5	65.2	65.2	70.2	No
	R7	22.4	74.8	74.8	79.8	No
	R8	19.6	55.8	55.8	60.8	No
	R9	25.7	49.9	49.9	54.9	No
Sepulveda	R1	22.9	65.4	65.4	70.4	No
	R2	24.7	64.9	64.9	69.9	No
	R3	23.1	64.3	64.3	69.3	No
	R4	20.9	69.6	69.6	74.6	No
	R5	30.5	65.1	65.1	70.1	No
	R6	35.4	65.2	65.2	70.2	No
	R7	41.4	74.8	74.8	79.8	No
	R8	35.7	55.8	55.8	60.8	No
	R9	18.6	49.9	49.9	54.9	No
Total Composite Parking	R1	43.9	65.4	65.4	70.4	No
	R2	42.7	64.9	64.9	69.9	No
	R3	42.4	64.3	64.3	69.3	No
	R4	34.2	69.6	69.6	74.6	No
	R5	33.5	65.1	65.1	70.1	No
	R6	35.8	65.2	65.2	70.2	No
	R7	41.4	74.8	74.8	79.8	No
	R8	35.9	55.8	55.8	60.8	No
	R9	28.3	49.9	49.9	54.9	No

# Project: 11111 Jefferson

## Parking Structure Noise

### Non-Residential

AM or PM Peak Hour Trips

Leq

283	trips
51	dBa

### Residential

AM or PM Peak Hour Trips

Leq

86	trips
46	dBa

$$Leq(h) = SEL_{ref} + 10\log(NA/1000) - 35.6$$

Where: Leq(h) = hourly Leq noise level at 50 feet

SELref (92 dBA SEL) = reference noise level for stationary noise source represented in

NA = number of automobiles per hour

# Project: 11111 Jefferson

## Parking - Machado West

Receptor Location	R1	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R1	350	ft
	-17	dBA
	28.8	dBA
Noise Reduction by		
Existing/Proposed Buildings	0	dBA
Noise Levels at R1	<b>28.8</b>	dBA

Receptor Location	R2	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R2	140	ft
	-9	dBA
	36.8	dBA
Noise Reduction by		
Existing/Proposed Buildings		dBA
Noise Levels at R2	<b>36.8</b>	dBA

Receptor Location	R3	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R3	80	ft
	-4	dBA
	41.7	dBA
Noise Reduction by		
Existing/Proposed Buildings	0	dBA
Noise Levels at R3	<b>41.7</b>	dBA

Receptor Location	R4	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R4	250	ft
	-14	dBA
	31.8	dBA
Noise Reduction by		
Existing/Proposed Buildings	0	dBA
Noise Levels at R4	<b>31.8</b>	dBA

Receptor Location	R5	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R5	325	ft
	-16	dBA
	29.5	dBA
Noise Reduction by		
Existing/Proposed Buildings	5	dBA
Noise Levels at R5	<b>24.5</b>	dBA

Receptor Location	R6	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R6	220	ft
	-13	dBA
	32.9	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R6	<b>22.9</b>	dBA

Receptor Location	R7	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R7	460	ft
	-19	dBA
	26.5	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R7	<b>16.5</b>	dBA

Receptor Location	R8	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R8	500	ft
	-20	dBA
	25.7	dBA
Noise Reduction by		
Existing/Proposed Buildings	10	dBA
Noise Levels at R8	<b>15.7</b>	dBA

Receptor Location	R9	
Machado - West Noise Level	45.7	dBA
Reference Distance	50	ft
Distance to R9	360	ft
	-17	dBA
	28.6	dBA
Noise Reduction by		
Existing/Proposed Buildings	5	dBA
Noise Levels at R9	<b>23.6</b>	dBA

# Project: 11111 Jefferson

## Parking - Machado East

Receptor Location	R1	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R1	115	ft
	-7	dBA
	43.7	dBA
Noise Reduction by Existing/Proposed Buildings		
	0	dBA
Noise Levels at R1	<b>43.7</b>	dBA

Receptor Location	R2	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R2	150	ft
	-10	dBA
	41.4	dBA
Noise Reduction by Existing/Proposed Buildings		
		dBA
Noise Levels at R2	<b>41.4</b>	dBA

Receptor Location	R3	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R3	340	ft
	-17	dBA
	34.3	dBA
Noise Reduction by Existing/Proposed Buildings		
	0	dBA
Noise Levels at R3	<b>34.3</b>	dBA

Receptor Location	R4	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R4	550	ft
	-21	dBA
	30.1	dBA
Noise Reduction by Existing/Proposed Buildings		
	0	dBA
Noise Levels at R4	<b>30.1</b>	dBA

Receptor Location	R5	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R5	611	ft
	-22	dBA
	29.2	dBA
Noise Reduction by Existing/Proposed Buildings		
	0	dBA
Noise Levels at R5	<b>29.2</b>	dBA

Receptor Location	R6	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R6	465	ft
	-19	dBA
	31.5	dBA
Noise Reduction by Existing/Proposed Buildings		
	10	dBA
Noise Levels at R6	<b>21.5</b>	dBA

Receptor Location	R7	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R7	420	ft
	-18	dBA
	32.4	dBA
Noise Reduction by Existing/Proposed Buildings		
	10	dBA
Noise Levels at R7	<b>22.4</b>	dBA

Receptor Location	R8	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R8	585	ft
	-21	dBA
	29.6	dBA
Noise Reduction by Existing/Proposed Buildings		
	10	dBA
Noise Levels at R8	<b>19.6</b>	dBA

Receptor Location	R9	
Machado - East Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R9	515	ft
	-20	dBA
	30.7	dBA
Noise Reduction by Existing/Proposed Buildings		
	5	dBA
Noise Levels at R9	<b>25.7</b>	dBA

# Project: 11111 Jefferson

## Parking - Sepulveda

Receptor Location	R1	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R1	400	ft
	-18	dBA
	32.9	dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R1	22.9	dBA

Receptor Location	R2	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R2	325	ft
	-16	dBA
	34.7	dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R2	24.7	dBA

Receptor Location	R3	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R3	390	ft
	-18	dBA
	33.1	dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R3	23.1	dBA

Receptor Location	R4	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R4	500	ft
	-20	dBA
	30.9	dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R4	20.9	dBA

Receptor Location	R5	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R5	525	ft
	-20	dBA
	30.5	dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R5	30.5	dBA

Receptor Location	R6	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R6	300	ft
	-16	dBA
	35.4	dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R6	35.4	dBA

Receptor Location	R7	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R7	150	ft
	-10	dBA
	41.4	dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R7	41.4	dBA

Receptor Location	R8	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R8	288	ft
	-15	dBA
	35.7	dBA
Noise Reduction by Existing/Proposed Buildings	0	dBA
Noise Levels at R8	35.7	dBA

Receptor Location	R9	
Sepulveda Noise Level	50.9	dBA
Reference Distance	50	ft
Distance to R9	650	ft
	-22	dBA
	28.6	dBA
Noise Reduction by Existing/Proposed Buildings	10	dBA
Noise Levels at R9	18.6	dBA

TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
Existing  
Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2351	48	24	72.4	72.7
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	2547	53	26	72.8	73.1
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	864	18	9	68.1	68.4
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	2579	53	27	72.8	73.1
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1263	26	13	66.6	66.9
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2292	47	24	72.3	72.6
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2441	50	25	72.6	72.9
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	110	2	1	54.5	54.8
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	694	14	7	65.6	65.9
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	928	19	10	66.8	67.1
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2343	48	24	72.4	72.7
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4004	83	41	74.7	75.0
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	1932	40	20	71.6	71.9
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3022	62	31	73.5	73.8
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	1820	38	19	71.3	71.6
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	3829	79	39	74.5	74.8
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2219	46	23	72.2	72.5
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3026	62	31	73.5	73.8
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1011	21	10	67.2	67.5
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	733	15	8	63.5	63.8

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.



TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
Existing + Project  
Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2397	49	25	72.5	72.8
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	2577	53	27	72.8	73.1
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	884	18	9	68.2	68.5
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	2606	54	27	72.9	73.2
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1286	27	13	66.7	67.0
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2292	47	24	72.3	72.6
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2456	51	25	72.6	72.9
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	118	2	1	54.8	55.1
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	696	14	7	65.6	65.9
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	933	19	10	66.8	67.1
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2380	49	25	72.5	72.8
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4068	84	42	74.8	75.1
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	1953	40	20	71.6	71.9
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3079	63	32	73.6	73.9
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	1915	39	20	71.5	71.8
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	3887	80	40	74.6	74.9
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2238	46	23	72.2	72.5
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3049	63	31	73.5	73.8
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1011	21	10	67.2	67.5
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	733	15	8	63.5	63.8

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
 Opening Year (2024)  
 Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2534	52	26	72.7	73.0
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	2769	57	29	73.1	73.4
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	959	20	10	68.5	68.8
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	2797	58	29	73.2	73.5
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1336	28	14	66.9	67.2
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2417	50	25	72.5	72.8
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2596	54	27	72.8	73.1
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	115	2	1	54.7	55.0
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	731	15	8	65.8	66.1
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	1000	21	10	67.1	67.4
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2508	52	26	72.7	73.0
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4330	89	45	75.1	75.4
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	2069	43	21	71.9	72.2
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3224	66	33	73.8	74.1
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	1956	40	20	71.6	71.9
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	4141	85	43	74.9	75.2
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2374	49	24	72.5	72.8
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3222	66	33	73.8	74.1
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1091	23	11	67.5	67.8
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	771	16	8	63.7	64.0

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
 Opening Year + Project (2024)  
 Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2579	53	27	72.8	73.1
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	2799	58	29	73.2	73.5
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	979	20	10	68.6	68.9
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	2824	58	29	73.2	73.5
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1359	28	14	66.9	67.2
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2417	50	25	72.5	72.8
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2611	54	27	72.9	73.2
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	124	3	1	55.0	55.3
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	734	15	8	65.8	66.1
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	1005	21	10	67.2	67.5
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2546	53	26	72.8	73.1
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4394	91	45	75.1	75.4
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	2089	43	22	71.9	72.2
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3282	68	34	73.9	74.2
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	2051	42	21	71.8	72.1
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	4199	87	43	74.9	75.2
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2392	49	25	72.5	72.8
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3245	67	33	73.8	74.1
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1091	23	11	67.5	67.8
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	771	16	8	63.7	64.0

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
 Future Baseline (2045)  
 Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2768	57	29	73.1	73.4
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	3025	62	31	73.5	73.8
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	1047	22	11	68.9	69.2
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	3056	63	32	73.6	73.9
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1465	30	15	67.3	67.6
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2647	55	27	72.9	73.2
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2839	59	29	73.2	73.5
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	127	3	1	55.1	55.4
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	800	17	8	66.2	66.5
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	1094	23	11	67.5	67.8
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2742	57	28	73.1	73.4
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4732	98	49	75.5	75.8
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	2264	47	23	72.3	72.6
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3527	73	36	74.2	74.5
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	2136	44	22	72.0	72.3
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	4525	93	47	75.3	75.6
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2596	54	27	72.8	73.1
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3526	73	36	74.2	74.5
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1195	25	12	67.9	68.2
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	844	17	9	64.1	64.4

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



11111 Jefferson Blvd  
 Future + Project (2045)  
 Fehr & Peers

	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
Jefferson Bl between Machado Rd and Sepulveda Bl	Hard	30	40	40	35	2814	58	29	73.2	73.5
Jefferson Bl between Overland Av and Machado Rd	Hard	30	40	40	35	3056	63	32	73.6	73.9
Jefferson Bl between Slauson Av and Sepulveda Bl	Hard	30	40	40	35	1066	22	11	69.0	69.3
Jefferson Bl n/o Overland Av	Hard	30	40	40	35	3083	64	32	73.6	73.9
Machado Rd between Sepulveda Bl and Jefferson Bl	Hard	30	30	30	25	1488	31	15	67.3	67.6
Overland Av e/o Jefferson Bl	Hard	30	40	40	35	2647	55	27	72.9	73.2
Overland Av w/o Jefferson Bl	Hard	30	40	40	35	2855	59	29	73.3	73.6
Project Driveway/Janisann Av w/o Sepulveda Bl	Hard	30	25	25	25	136	3	1	55.4	55.7
Sawtelle Bl e/o Sepulveda Bl	Hard	30	35	35	30	803	17	8	66.2	66.5
Sawtelle Bl w/o Sepulveda Bl	Hard	30	35	35	30	1099	23	11	67.6	67.9
Sepulveda Bl between Culver Bl and Machado Rd	Hard	30	40	40	35	2780	57	29	73.1	73.4
Sepulveda Bl between Jefferson Bl (N) and Sawtelle Bl	Hard	30	40	40	35	4796	99	49	75.5	75.8
Sepulveda Bl between Machado Rd and Project Driveway/Janisa	Hard	30	40	40	35	2284	47	24	72.3	72.6
Sepulveda Bl between Playa St/Jefferson Bl (S) and Slauson Av	Hard	30	40	40	35	3584	74	37	74.2	74.5
Sepulveda Bl between Project Driveway/Janisann Av and Jeffers	Hard	30	40	40	35	2231	46	23	72.2	72.5
Sepulveda Bl between Sawtelle Bl and Playa St/Jefferson Bl (S)	Hard	30	40	40	35	4583	95	47	75.3	75.6
Sepulveda Bl n/o Culver Bl	Hard	30	40	40	35	2614	54	27	72.9	73.2
Sepulveda Bl s/o Slauson Av	Hard	30	40	40	35	3548	73	37	74.2	74.5
Slauson Av between Jefferson Bl and Sepulveda Bl	Hard	30	35	35	30	1195	25	12	67.9	68.2
Slauson Av n/o Jefferson Bl	Hard	30	30	30	25	844	17	9	64.1	64.4

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.