

Appendix H: Noise Analysis

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Project Number: 2491.0036
Project Name: Bishop Ranch 6
Test Personnel: Spencer Pignotti

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Noise Measurement Survey

Site Number: ST-1 Date: June 16, 2021 Time: From 12:24 pm To 12:39 pm

Site Location: In Eastern parking lot between three buildings on-site

Primary Noise Sources: Automobile traffic from Camino Ramon

Measurement Results

	dBA
Leq	51.4
Lmax	67.1
Lmin	42.0
L5	55.5
L10	54.4
L50	49.4
L90	44.5
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1 _____ Measured Difference: -0.17dBA
Settings: A-Weighted ☒ Other ☐ _____ Slow ☒ Fast ☐ Windscreen ☒

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	4.0	92.0		
Comments:	Very Sunny day with slight winds and little humidity			

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Noise Measurement Survey

Site Number: ST-2 Date: June 16, 2021 Time: From 12:45 pm To 1:00 pm

Site Location: Southwest corner of site, in parking lot, about 100 feet from southern entrance to site from executive Parkway

Primary Noise Sources: Automobile traffic from Executive Parkway, some highway noise from I-680

Measurement Results

	dBA
Leq	45.9
Lmax	53.2
Lmin	42.6
L5	47.7
L10	47.2
L50	45.6
L90	44.1
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1 _____ Measured Difference: -0.17dBA
Settings: A-Weighted ☒ Other ☐ _____ Slow ☒ Fast ☐ Windscreen ☒

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	4.0	92.0		
Comments:	Very Sunny day with slight winds and little humidity			

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Noise Measurement Survey

Site Number: ST-3 Date: June 16, 2021 Time: From 1:04 pm To 1:19 pm

Site Location: Northwest corner of the Bishop Ranch 6 parking lot, approximately 90 feet south of Norris Canyon Road

Primary Noise Sources: Automobile traffic from Norris Canyon Road

Measurement Results

	dBA
Leq	53.2
Lmax	63.5
Lmin	43.9
L5	58.1
L10	56.5
L50	51.5
L90	45.7
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1 _____ Measured Difference: -0.17dBA
Settings: A-Weighted ☒ Other ☐ _____ Slow ☒ Fast ☐ Windscreen ☒

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	4.0	92.0		
Comments:	Very Sunny day with slight winds and little humidity			

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Noise Measurement Survey

Site Number: LT-1 Date: June 16 to June 17, 2021 Time: From 1:33(6/16) pm To 2:54 (6/17) pm

Site Location: tied to parking lot light pole, in western edge of site, near trail entrance to development to the west, about 650 feet northwest of ST-2.

Primary Noise Sources: Automobile traffic from Norris Canyon Road

Measurement Results

	dBA
Leq	50.1
Lmax	72.9
Lmin	38.4
L5	54.9
L10	53.0
L50	47.7
L90	42.6
Ldn	55.8
CNEL	56.3

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1 _____ Measured Difference: -0.17dBA
Settings: A-Weighted ☒ Other ☐ _____ Slow ☒ Fast ☐ Windscreen ☒

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
	4.0	92.0		
Comments:	Very Sunny day with slight winds and little humidity			

Summary	
File Name on Meter	LxT_Data.155.s
File Name on PC	LxT_0004397-20210616 133309-LxT_Data.155.ldbin
Serial Number	0004397
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2021-06-16 13:33:09
Stop	2021-06-17 14:54:46
Duration	25:21:37.102
Run Time	25:21:37.102
Pause	00:00:00.0
Pre-Calibration	2021-06-16 13:30:47
Post-Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRMLxT2L
Microphone Correction	Off
Integration Method	Exponential
Overload	124.9 dB
	A C Z
Under Range Peak	81.1 78.1 83.1 dB
Under Range Limit	26.6 26.7 31.6 dB
Noise Floor	17.4 17.6 22.5 dB

Results	
LASEq	50.1
LASE	99.8
EAS	1.050 mPa²h
EAS8	331.188 µPa²h
EAS40	1.656 mPa²h
LASpeak (max)	2021-06-16 13:33:21 106.8 dB
LASmax	2021-06-16 13:33:21 72.9 dB
LASmin	2021-06-17 00:36:04 38.4 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
LASpeak > 135.0 dB (Exceedance Counts / Duration)	0 0.0 s
LASpeak > 137.0 dB (Exceedance Counts / Duration)	0 0.0 s
LASpeak > 140.0 dB (Exceedance Counts / Duration)	0 0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00
	55.8	50.6	49.2	56.3	50.0	52.6	49.2

LCseq	61.5 dB
LASEq	50.1 dB
LCseq - LASEq	11.3 dB
LALeq	52.0 dB
LAEq	50.1 dB
LALeq - LAeq	1.8 dB

A		C		Z	
dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	50.1				
Ls(max)	72.9 2021/06/16 13:33:21				
Ls(min)	38.4 2021/06/17 0:36:04				
LPeak(max)	106.8 2021/06/16 13:33:21				

Overload Count	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	-99.94 -99.94 %
Projected Dose	-99.94 -99.94 %
TWA (Projected)	-99.9 -99.9 dB

TWA (t)	-99.9	-99.9 dB
Lep (t)	55.2	55.2 dB

Statistics		
LAS5.00	54.9	dB
LAS10.00	53.0	dB
LAS33.30	49.9	dB
LAS50.00	47.7	dB
LAS66.60	45.6	dB
LAS90.00	42.6	dB



Photograph 1: View from ST-1 facing north



Photograph 2: View from ST-1 facing east



Photograph 7: View from ST-2 facing south



Photograph 8: View from ST-2 facing west



Photograph 1: View from ST-2 facing north



Photograph 2: View from ST-2 facing east



Photograph 3: View from ST-2 facing south



Photograph 4: View from ST-2 facing west



Photograph 1: View from ST-3 facing north



Photograph 2: View from ST-3 facing east



Photograph 3: View from ST-3 facing south



Photograph 4: View from ST-3 facing west



Photograph 1: View from LT-1 facing north



Photograph 2: View from LT-1 facing east



Photograph 3: View from LT-1 facing south



Photograph 4: View from LT-1 facing west