

**Appendix C:
Noise Supporting Information**

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Project Number: 5288.0001
 Project Name: College Creek Apartments
 Test Personnel: Spencer P.

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Noise Measurement Survey

Site Number: ST-1 Date: 11/7/2019 Time: From 1:34 pm To 1:49 pm

Site Location: Southwest corner of site 20 feet to property line, adjacent to CALFIRE Station

Primary Noise Sources: Minimal noise, some maintenance work and noise from CALFIRE

Measurement Results

	dB(A)
Leq	43.0
Lmax	51.0
Lmin	39.5
L5	45.9
L10	44.8
L50	42.4
L90	40.7
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: -0.05 dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
<u>2.8</u>	<u>1.0</u>	<u>70°</u>	<u>-</u>
Comments: <u>Partly cloudy w/ slight winds</u>			

Project Number: 5288.0001
 Project Name: College Creek Apartments
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Noise Measurement Survey

Site Number: ST-2 Date: 11/7/2019 Time: From 1:15 p.m To 1:30 p.m

Site Location:
Northeast ~~side~~ portion of project site, near fence line adjacent to creek

Primary Noise Sources: Traffic on West College Ave / Stony Point Rd.

Measurement Results

	dBA
Leq	50.1
Lmax	64.7
Lmin	41.6
L5	54.6
L10	51.1
L50	46.6
L90	43.7
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: -0.05 dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
<u>2.8</u>	<u>1.0</u>	<u>70°</u>	
Comments: <u>Partly Cloudy w/ slight winds</u>			

Project Number: 5288.0001
 Project Name: College Creek Apartments
 Test Personnel: Spencer P.

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Noise Measurement Survey

Site Number: ST-3 Date: 11/7/2019 Time: From 12:49 pm To 1:04 pm

Site Location: Northern boundary of site on sidewalk adjacent to West College Ave., directly across from Navarro St.

Primary Noise Sources: Traffic on West College Ave

Measurement Results

	dBA
Leq	72.2
Lmax	83.0
Lmin	45.4
L5	77.1
L10	75.9
L50	70.3
L90	60.2
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: -0.05 dBA
 Slow Fast Windscreener

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
<u>2.8</u>	<u>1.0</u>	<u>70°</u>	
Comments: <u>Partly cloudy w/ slight winds</u>			

Summary

Filename LxT_Data.110
 Serial Number 4397
 Model SoundTrack LxT®
 Firmware Version 2.301
 User
 Location
 Job Description
 Note
 Measurement Description
 Start 2019/11/07 13:59:13
 Stop 2019/11/08 13:59:15
 Duration 1 Day 00:00:01.7
 Run Time 1 Day 00:00:01.7
 Pause 0:00:00.0

Pre Calibration 2019/11/07 13:56:33
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT2B
 Microphone Correction Off
 Integration Method Exponential
 Overload 145.7 dB

	A	C	Z
Under Range Peak	101.9	98.9	103.9
Under Range Limit	38.0	36.0	44.0
Noise Floor	25.2	25.7	33.2

Results

LASeq 47.0 dB
 LASe 96.4 dB
 EAS 484.406 µPa²h
 EAS8 161.465 µPa²h
 EAS40 807.327 µPa²h
 LApeak (max) 2019/11/08 13:25:14 119.0 dB
 LASmax 2019/11/08 13:25:14 88.3 dB
 LASmin 2019/11/08 1:36:50 31.3 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedence Counts / Duration)	1	1.8 s
LAS > 115.0 dB (Exceedence Counts / Duration)	0	0.0 s
LApeak > 135.0 dB (Exceedence Counts / Duration)	0	0.0 s
LApeak > 137.0 dB (Exceedence Counts / Duration)	0	0.0 s
LApeak > 140.0 dB (Exceedence Counts / Duration)	0	0.0 s

Community Noise

	Ldn	LDay 07:00-22:00	LNight 22:00-07:00
	48.4	48.9	37.4
LCSeq	63.1 dB		
LASeq	47.0 dB		
LCSeq - LASeq	16.0 dB		
LALeq	53.4 dB		
LAeq	47.0 dB		
LALeq - LAeq	6.4 dB		
# Overloads	0		
Overload Duration	0.0 s		

Dose Settings

	OSHA-1	OSHA-2
Dose Name		
Exch. 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	0.00 %
TWA (Projected)	-99.9	9.2 dB
TWA (t)	-99.9	17.1 dB
Lep (t)	51.8	51.8 dB

Statistics

LAS5.00	50.8 dB
LAS10.00	48.5 dB
LAS33.30	45.2 dB
LAS50.00	42.3 dB
LAS66.60	38.0 dB
LAS90.00	32.9 dB

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Putney Drive to Navarro Street
NOTES: 2150 West College Avenue - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.41

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	68.2	139.7	297.3

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Navarro Street to Marlow Road
NOTES: 2150 West College Avenue - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
----	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.61

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	67.9	144.4	310.1

TABLE Existing plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019

ROADWAY SEGMENT: West College Avenue - Putney Drive to Navarro Street

NOTES: 2150 West College Avenue - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.41

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	68.2	139.7	297.3

TABLE Existing plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Navarro Street to Marlow Road
NOTES: 2150 West College Avenue - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13400 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
----	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.84

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	70.3	149.6	321.4

TABLE Future-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Putney Drive to Navarro Street
NOTES: 2150 West College Avenue - Future

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	70.2	144.2	307.2

TABLE Future-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Navarro Street to Marlow Road
NOTES: 2150 West College Avenue - Future

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.91

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	70.9	151.1	324.6

TABLE Future plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Putney Drive to Navarro Street
NOTES: 2150 West College Avenue - Future plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.65

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	70.6	144.9	308.8

TABLE Future plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/27/2019
ROADWAY SEGMENT: West College Avenue - Navarro Street to Marlow Road
NOTES: 2150 West College Avenue - Future plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14300 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.13

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	73.3	156.2	335.6
