





Project Number: 5179.0001 Sheet 1 of 1

Project Name: Terraces of Lafayette Test Personnel: Spencer Pignotti

Noise Measurement Survey

Site Number: LT-1 Date: 8/28/18-8/30/18 Time: From 12:18 p.m. To 12:38 p.m.

Site Location: Northeast side of site, approximately 75 feet west of Pleasant Hill Road.

Primary Noise Sources: Traffic on Pleasant Hill Road

Measurement Results

Micasar	ment results
	dBA
Leq	64.0
Lmax	97.2
Lmin	30.5
Lpeak	
L5	
L10	
L50	
L90	
Ldn	68.5
CNEL	

Observed Noise Sources/Events

Observed Noise Sources/Events			
Time	Noise Source/Event	dBA	

Comments:	
Equipment: SoundTrack LxT	Measured Difference: 0.1 dBA
Settings: A-Weighted⊠ Other□	Slow⊠ Fast□ Windscreen⊠

Atmospheric Conditions:

	,			
Maximum Wind	Average Wind		Relative	
Velocity (mph)	Velocity (mph)	Temperature (F)	Humidity (%)	
Comments:	Minimal wind			

Photos Taken:

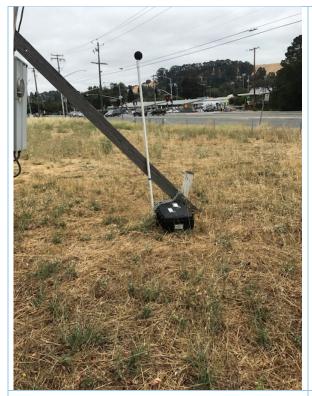
Photo Number	Location/Description
1	View from LT-1 facing north
2	View from LT-1 facing north
3	View from LT-1 facing south
4	View from LT-1 facing west

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts
Pleasant Hill Rd	4	35mph			

Diagram/Further Comments:		

Summary			
Filename	LxT_Data.045		
Serial Number	4397		
Model	SoundTrack LxT®		
Firmware Version	2.301		
User			
Location			
Job Description			
Note			
Measurement Description Start	2018/08/28 12:18:35		
Stop	2018/08/30 12:38:36		
Duration	2 Days 00:20:01.3		
Run Time	2 Days 00:20:01.3		
Pause	0:00:00.0		
Pre Calibration	2018/08/28 12:17:35		
Post Calibration Calibration Deviation	None 		
Campiation Deviation			
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRMLxT2L		
Microphone Correction	Off		
Integration Method Overload	Linear 124.6 dB		
Ovensau	124.6 ub	С	z
Under Range Peak	80.8	77.8	82.8
Under Range Limit	27.1	27.1	31.8
Noise Floor	18.0	18.0	22.6
Results			
LAeq LAE	64.0 dB 116.4 dB		
EA	49.035 mPa ²	h	
EA8	8.116 mPa ²		
EA40	40.581 mPa ²	h	
LApeak (max)	2018/08/29 18:23:50	113.1 dB	
LASmax	2018/08/29 11:25:25	97.2 dB	
LASmin	2018/08/29 2:06:05	30.5 dB	
SEA	-99.9 dB		
LAS > 85.0 dB (Exceedence Counts / Duration)	11	28.7 s	
LAS > 85.0 dB (Exceedence Counts / Duration) LAS > 115.0 dB (Exceedence Counts / Duration)	11 0	28.7 s 0.0 s	
LAS > 115.0 dB (Exceedence Counts / Duration) LApeak > 135.0 dB (Exceedence Counts / Duration) LApeak > 137.0 dB (Exceedence Counts / Duration)	0 0 0	0.0 s 0.0 s 0.0 s	
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LAS > 115.0 dB (Exceedence Counts / Duration) LApeak > 135.0 dB (Exceedence Counts / Duration) LApeak > 137.0 dB (Exceedence Counts / Duration) LApeak > 140.0 dB (Exceedence Counts / Duration) Community Noise LCeq LAeq LAeq LAeq LAleq LAleq LAleq - LAeq # Overloads Overload Duration Dose Settings Dose Name Exch. Rate Threshold	0 0 0 0 0 Ldn LDay 68.5 69.9 dB 64.0 dB 5.8 dB 65.4 dB 64.0 dB 1.4 dB 0 0.0 s	0.0 s 0.0 s 0.0 s 0.0 s 7 07:00-22:00 LNight 2: 65.1 OSHA-2 5 dB 80 dB	
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LAS > 115.0 dB (Exceedence Counts / Duration) LApeak > 135.0 dB (Exceedence Counts / Duration) LApeak > 137.0 dB (Exceedence Counts / Duration) LApeak > 140.0 dB (Exceedence Counts / Duration) Community Noise LCeq LAeq LAeq LAeq LAleq LAleq LAleq - LAeq # Overloads Overload Duration Dose Settings Dose Name Exch. Rate Threshold Criterion Level Criterion Duration Results Dose Projected Dose TWA (Projected) TWA (t) Lep (t) Statistics LAS5.00 LAS10.00 LAS33.30 LAS50.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 s 0.0 s 0.0 s 0.0 s 7 07:00-22:00 LNight 2: 65.1 OSHA-2 5 dB 80 dB 90 dB 8 h	
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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

TABLE Existing-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - Pleasant Hill Road to East Project

Driveway

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NTGHT
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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	80.6	172.2	370.2

TABLE Existing-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - East Project Driveway to West Project

Driveway

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12500 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	80.5	172.9	372.3

TABLE Existing-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - West Project Driveway to Brown Avenue

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12500 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn
70 Ldn 65 Ldn 60 Ldn 55 Ldn
----- 0.0 80.5 172.9 372.3

TABLE Existing-04 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Quant Road to Stanley Boulevard

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37000 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NIGHT
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	69.1	141.6	301.6

TABLE Existing-05 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Stanley Boulevard to Project

Driveway

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 28800 SPEED (MPH): 35 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	95.9	201.3	431.2

TABLE Existing-06 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Project Driveway to Acalanes Avenue

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30300 SPEED (MPH): 35 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) = 67.06

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn
70 Ldn 65 Ldn 60 Ldn 55 Ldn
----- 0.0 98.9 208.2 446.0

TABLE Existing-07 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Acalanes Avenue to SR 24 WB Direct

Ramps

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30600 SPEED (MPH): 35 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTER	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	99.6	209.5	449.0

TABLE Existing-08 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: SR 24 - 1st Street ramps to Pleasant Hill Road ramps

NOTES: Terraces of Lafayette - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 147000 SPEED (MPH): 65 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): 48 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 79.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn
70 Ldn 65 Ldn 60 Ldn 55 Ldn
----- 359.4 768.7 1653.2 3559.8

TABLE Existing + Project-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - Pleasant Hill Road to East Project

Driveway

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12800 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	82.3	175.9	378.1

TABLE Existing + Project-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - East Project Driveway to West Project

Driveway

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12500 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	80.5	172.9	372.3

TABLE Existing + Project-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - West Project Driveway to Brown Avenue

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12800 SPEED (MPH): 45 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	81.7	175.7	378.2

TABLE Existing + Project-04 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Quant Road to Stanley Boulevard

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37300 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NTGHT.
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	69.4	142.4	303.2

TABLE Existing + Project-05 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Stanley Boulevard to Project

Driveway

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 29100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NIGHT
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldr
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	96.5	202.7	434.2

TABLE Existing + Project-06 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Project Driveway to Acalanes Avenue

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NTGHT.
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	101.4	213.5	457.7

TABLE Existing + Project-07 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Acalanes Avenue to SR 24 WB Direct

Ramps

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NIGHT
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	102.0	214.9	460.6

TABLE Existing + Project-08 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: SR 24 - 1st Street ramps to Pleasant Hill Road ramps

NOTES: Terraces of Lafayette - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 147000 SPEED (MPH): 65 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): 48 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 79.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn
70 Ldn 65 Ldn 60 Ldn 55 Ldn
----- 359.4 768.7 1653.2 3559.8

TABLE Cumulative No Project-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - Pleasant Hill Road to East Project

Driveway

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17300 SPEED (MPH): 45 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	100.3	214.8	462.1

TABLE Cumulative No Project-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - East Project Driveway to West Project

Driveway

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

Τ'
_
34
19
80

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	100.2	215.5	464.1

TABLE Cumulative No Project-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - West Project Driveway to Brown Avenue

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGH	ι⊥
	-
AUTOS	
88.08 9.	34
M-TRUCKS	
1.65 0.	19
H-TRUCKS	
0.66 0.	08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	100.2	215.5	464.1

TABLE Cumulative No Project-04 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Quant Road to Stanley Boulevard

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 51800 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NTGHT.
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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTER	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	84.6	176.3	377.0

TABLE Cumulative No Project-05 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Stanley Boulevard to Project

Driveway

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 40300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NIGHT
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
59.0	118.5	251.2	539.1

TABLE Cumulative No Project-06 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Project Driveway to Acalanes Avenue

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42400 SPEED (MPH): 35 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTER	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
60.7	122.4	259.7	557.6

TABLE Cumulative No Project-07 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Acalanes Avenue to SR 24 WB Direct

Ramps

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42800 SPEED (MPH): 35 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
61.0	123.2	261.4	561.1

TABLE Cumulative No Project-08 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: SR 24 - 1st Street ramps to Pleasant Hill Road ramps

NOTES: Terraces of Lafayette - Cumulative No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 147000 SPEED (MPH): 65 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): 48 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 79.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn
70 Ldn 65 Ldn 60 Ldn 55 Ldn
----- 359.4 768.7 1653.2 3559.8

TABLE Cumulative + Project-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - Pleasant Hill Road to East Project

Driveway

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17700 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGH'I'
AUTOS	}	
	88.08	9.34
M-TRU	ICKS	
	1.65	0.19
H-TRU	ICKS	
	0.66	0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldr
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	101.8	218.1	469.2

TABLE Cumulative + Project-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - East Project Driveway to West Project

Driveway

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	100.2	215.5	464.1

TABLE Cumulative + Project-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Deer Hill Road - West Project Driveway to Brown Avenue

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17800 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NTGHT
9.34
0.19
0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	101.7	218.8	471.2

TABLE Cumulative + Project-04 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Quant Road to Stanley Boulevard

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 52100 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NTGHT.
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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	84.9	177.0	378.5

TABLE Cumulative + Project-05 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Stanley Boulevard to Project

Driveway

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 40600 SPEED (MPH): 35 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 * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
59.2	119.1	252.4	541.7

TABLE Cumulative + Project-06 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Project Driveway to Acalanes Avenue

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 43600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

NTGHT.
9.34
0.19
0.08

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

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.64

DISTANCE	(FEET) FROM	ROADWAY CENTER	LINE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
61.7	124.7	264.6	568.1

TABLE Cumulative + Project-07 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

ROADWAY SEGMENT: Pleasant Hill Road - Acalanes Avenue to SR 24 WB Direct

Ramps

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 44000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	N1GH'I'
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) = 68.68

DISTANCE	(FEET) FROM	ROADWAY CENTERI	INE TO Ldn
70 Ldn	65 Ldn	60 Ldn	55 Ldn
62.0	125.4	266.2	571.5

TABLE Cumulative + Project-08 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/30/2018

 ${\tt ROADWAY\ SEGMENT:\ SR\ 24\ -\ 1st\ Street\ ramps\ to\ Pleasant\ Hill\ Road\ ramps}$

NOTES: Terraces of Lafayette - Cumulative + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 147000 SPEED (MPH): 65 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

D	ÞΑΥ	NIGHT
_		
AUTOS		
8	88.08	9.34
M-TRUCKS	3	
	1.65	0.19
H-TRUCKS	3	
	0.66	0.08

ACTIVE HALF-WIDTH (FT): 48 SITE CHARACTERISTICS: SOFT

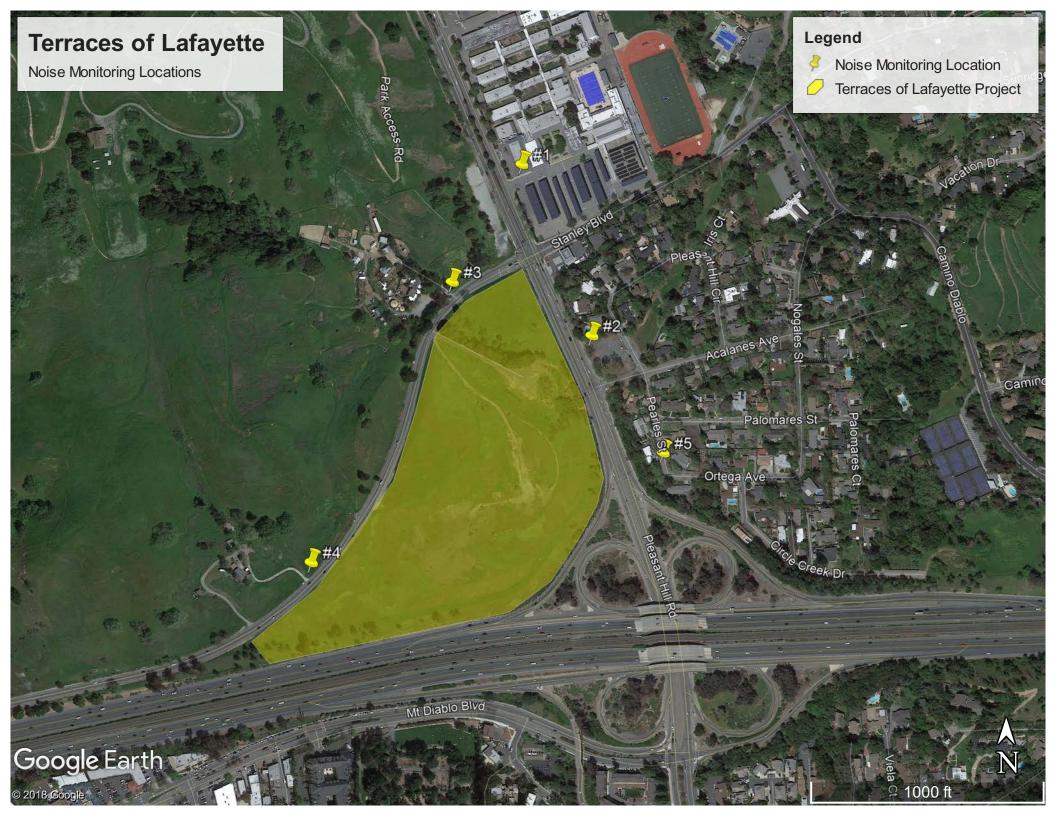
* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 79.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
359.4	768.7	1653.2	3559.8





Measurement Report

Report Summary

Meter's File Name LxT_Data.041 Computer's File Name SLM_0005667_LxT_Data_041.00.ldbin

Meter LxT1 0005667

Firmware 2.302 User ISI

lser ISI Location

Description Terraces of Lafayette

Note Location #1

Start Time 2019-08-21 12:44:11 Duration 0:15:50.6

End Time 2019-08-21 13:00:05 Run Time 0:15:50.6 Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	68.4 dB		
LAE	98.2 dB	SEA	dB
EA	736.9 µPa²h		
EA8	22.3 mPa ² h		
EA40	111.6 mPa ² h		
LZ _{peak}	100.0 dB	2019-08-21 12:51:21	
LAS _{max}	91.6 dB	2019-08-21 12:49:41	
LAS_{min}	48.9 dB	2019-08-21 12:44:42	

LA_{eq} 68.4 dB

 LC_{eq} 72.1 dB LC_{eq} - LA_{eq} 3.6 dB LAI_{eq} 71.1 dB LAI_{eq} - LA_{eq} 2.7 dB

Exceedances Count Duration LAS > 85.0 dB 1 0:00:02.3 LAS > 115.0 dB 0 0:00:00.0 LZpeak > 135.0 dB 0 0:00:00.0

LZpeak > 135.0 dB 0 0:00:00.0 LZpeak > 137.0 dB 0 0:00:00.0 LZpeak > 140.0 dB 0 0:00:00.0

Community Noise LDN LDay LNight
--- dB --- dB 0.0 dB

LDEN LDay LEve LNight
--- dB --- dB --- dB

Any Data A C Z

	Level Time Stamp	Level Time	e Stamp Level	Time Stamp
L _{eq}	68.4 dB	72.1 dB	dB	
Ls _(max)	91.6 dB 2019-08-21 12:49:41	dB	dB	
LS _(min)	48.9 dB 2019-08-21 12:44:42	dB	dB	
L _{Peak(max)}	dB	dB	100.0 dB	2019-08-21 12:51:21

Overloads Count Duration OBA Count OBA Duration
0 0:00:00.0 0 0:00:00.0

Statistics

LAS 5.0	69.8 dB
LAS 5.0	09.0 UD
LAS 10.0	68.3 dB
LAS 33.3	64.5 dB
LAS 50.0	62.3 dB
LAS 66.6	60.1 dB
LAS 90.0	54.3 dB

Time History - LAeq - LZpeak - LASmax 100 75 50 12:46 12:48 12:50 12:52 12:54 12:56 12:58 13:00

Measurement Report

Report Summary

Meter's File Name LxT_Data.042 Computer's File Name SLM_0005667_LxT_Data_042.00.ldbin

Meter LxT1 0005667

Firmware 2.302 User ISI

ISI Location

Description Terraces of Lafayette

Note Location #2

Start Time 2019-08-21 13:05:18 Duration 0:15:00.0

End Time 2019-08-21 13:20:18 Run Time 0:15:00.0 Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	54.9 dB	
LAE	84.5 dB	SEA dB
EA	31.1 µPa²h	
EA8	995.7 µPa²h	
EA40	5.0 mPa ² h	
LZ _{peak}	96.8 dB	2019-08-21 13:15:39
LAS _{max}	64.7 dB	2019-08-21 13:18:57
LAS _{min}	42.1 dB	2019-08-21 13:10:55
LA _{eq}	54.9 dB	
LC _{eq}	66.7 dB	LC_{eq} - LA_{eq} 11.8 dB
LAI _{eq}	55.8 dB	LAI _{eq} - LA _{eq} 0.9 dB

- 7		- 7
Exceedances	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
	_	

LZpeak > 135.0 dB 0 0:00:00.0 LZpeak > 137.0 dB 0 0:00:00.0 LZpeak > 140.0 dB 0 0:00:00.0

Community Noise LDN LDay LNight
--- dB --- dB 0.0 dB

LDEN LDay LEve LNight
--- dB --- dB --- dB

Any Data A C Z

	Level Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	54.9 dB	66.7 dB		dB	
Ls _(max)	64.7 dB 2019-08-21 13:18:57	dB		dB	
LS _(min)	42.1 dB 2019-08-21 13:10:55	dB		dB	
L _{Peak(max)}	dB	dB		96.8 dB	2019-08-21 13:15:39

Overloads Count Duration OBA Count OBA Duration
0 0:00:00.0 0 0:00:00.0

Statistics

LAS 5.0	58.7 dB
LAS 10.0	57.7 dB
LAS 33.3	55.4 dB
LAS 50.0	54.1 dB
LAS 66.6	52.5 dB
LAS 90.0	49.2 dB

Time History - LAeq - LZpeak - LASmax 100 - 75 - 50 - 13:06 13:08 13:10 13:12 13:14 13:16 13:18 13:20

Measurement Report

Report Summary

Meter's File Name LxT_Data.043 Computer's File Name SLM_0005667_LxT_Data_043.00.ldbin

Meter LxT1 0005667

Firmware 2.302 User ISI

Location

Description Terraces of Lafayette
Note Locations #3

Start Time 2019-08-21 13:26:18 Duration 0:15:00.0

End Time 2019-08-21 13:41:18 Run Time 0:15:00.0 Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	68.0 dB		
LAE	97.6 dB	SEA	dB
EA	637.3 µPa²h		
EA8	20.4 mPa ² h		
EA40	102.0 mPa²h		
LZ _{peak}	102.0 dB	2019-08-21 13:29:01	
LAS _{max}	79.0 dB	2019-08-21 13:29:03	
LAS _{min}	40.8 dB	2019-08-21 13:32:24	
LA _{eq}	68.0 dB		
LC _{eq}	74.7 dB	LC _{eq} - LA _{eq}	6.6 dB
LAI _{eq}	69.8 dB	LAI _{eq} - LA _{eq}	1.8 dB

Exceedances	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpeak > 135.0 dB	0	0:00:00.0
I 7 neak > 137 0 dB	0	0:00:00.0

0

LZpeak > 140.0 dB

Community Noise LDN LDay LNight
--- dB --- dB 0.0 dB

0:00:00.0

LDEN LDay LEve LNight
--- dB --- dB --- dB

Time Stamp

Any Data A C Z
Level Time Stamp Level Time Stamp Level

68.0 dB 74.7 dB --- dB L_{eq} $\operatorname{Ls}_{(\max)}$ 79.0 dB 2019-08-21 13:29:03 --- dB --- dB 40.8 dB 2019-08-21 13:32:24 --- dB --- dB LS_(min) --- dB --- dB 102.0 dB 2019-08-21 13:29:01 L_{Peak(max)}

Overloads Count Duration OBA Count OBA Duration
0 0:00:00.0 0 0:00:00.0

Statistics

LAS 5.0	73.8 dB
LAS 10.0	72.5 dB
LAS 33.3	67.9 dB
LAS 50.0	63.8 dB
LAS 66.6	57.8 dB
LAS 90 0	46.8 dB



Measurement Report

Report Summary

Meter's File Name LxT_Data.044 SLM_0005667_LxT_Data_044.00.ldbin Computer's File Name

Meter LxT1 0005667

Firmware 2.302 User ISI

Location

Description Terraces of Lafayette Note Locations #4

Start Time 2019-08-21 13:45:19 Duration 0:15:00.0

End Time 2019-08-21 14:00:19 Run Time 0:15:00.0 Pause Time 0:00:00.0

Results

Overall Metrics

LA _{eq}	71.0 dB	
LAE	100.6 dB	SEA dB
EA	1.3 mPa²h	
EA8	40.4 mPa ² h	
EA40	202.1 mPa²h	
LZ _{peak}	108.4 dB	2019-08-21 13:49:37
LAS _{max}	93.5 dB	2019-08-21 13:49:37
LAS _{min}	53.7 dB	2019-08-21 13:45:20
LA _{eq}	71.0 dB	
LC _{eq}	74.5 dB	LC_{eq} - LA_{eq} 3.5 dB
LAI _{eq}	75.1 dB	LAI _{eq} - LA _{eq} 4.1 dB

Exceedances	Count	Duration
LAS > 85.0 dB	1	0:00:03.3
LAS > 115.0 dB	0	0:00:00.0
LZpeak > 135.0 dB	0	0:00:00.0
LZpeak > 137.0 dB	0	0:00:00.0

0

LZpeak > 140.0 dB

Community Noise LDN **LDay LNight** --- dB --- dB 0.0 dB

0:00:00.0

LDEN LDay LEve LNight --- dB --- dB --- dB --- dB

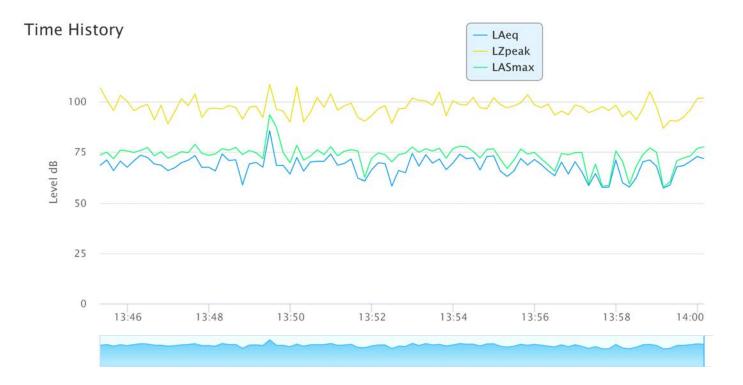
Any Data Α C Z Time Stamp Time Stamp Time Stamp Level Level Level 71.0 dB 74.5 dB --- dB L_{eq} $\operatorname{Ls}_{(\max)}$ 93.5 dB 2019-08-21 13:49:37 --- dB --- dB 53.7 dB 2019-08-21 13:45:20 --- dB --- dB LS_(min) --- dB --- dB 108.4 dB 2019-08-21 13:49:37

Overloads Count Duration **OBA Count OBA Duration** 0 0:00:00.0 0 0:00:00.0

Statistics

L_{Peak(max)}

LAS 5.0	75.2 dB
LAS 10.0	74.0 dB
LAS 33.3	69.9 dB
LAS 50.0	65.8 dB
LAS 66.6	62.0 dB
LAS 90 0	58 0 dB



Report date: 9/19/2019 Case Description: Terraces of Lafayette Grading

Equipment

---- Receptor #1 ----

Baselines (dBA)

Daytime Evening Description Land Use

Night Residential 68.4 50 50 Acalanes HS

Equipment

Results

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actua Lmax (dBA)		Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40			80.7	400	0
Excavator	No	40			80.7	400	0
Grader	No	40		85		400	0
Dozer	No	40			81.7	400	0
Scraper	No	40			83.6	400	0
Scraper	No	40			83.6	400	0
Tractor	No	40		84		400	0
Tractor	No	40		84		400	0

Calculated (dBA) Noise Limits (dBA) Day Evening Night Day *Lmax Lmax Lmax Leq Lmax Leq Lmax 62.6 58.7 N/A N/A N/A N/A 62.6 58.7 N/A N/A N/A N/A N/A N/A

Excavator N/A N/A N/A N/A N/A Excavator N/A N/A N/A N/A N/A N/A Grader 66.9 63 N/A Dozer 63.6 59.6 N/A 61.5 N/A N/A N/A N/A N/A Scraper 65.5 N/A N/A N/A N/A N/A N/A N/A Scraper 65.5 61.5 N/A 65.9 62 N/A Tractor N/A N/A 65.9 N/A Tractor 62 N/A 70.2 N/A Total 66.9 N/A N/A

Noise Limit Exceedance (dBA)

Evening

Lmax

Night

Lmax

Leq

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description Land Use Daytime Evening Night Residences East of Site Residential 54.9 45

Equipment

		Spec	ACU	ıaı	Receptor	Estimated
Impact		Lmax	Lma	IX	Distance	Shielding
Device	Usage(%)	(dBA)	(dB	۹)	(feet)	(dBA)
No	40			80.7	140	0
No	40			80.7	140	0
No	40		85		140	0
No	40			81.7	140	0
No	40			83.6	140	0
No	40			83.6	140	0
No	40		84		140	0
No	40		84		140	0
	Device No No No No No No	Device Usage(%) No 40 No 40	Impact	Impact	Impact	Impact Lmax Lmax (dBA) Distance (feet) Device Usage(%) (dBA) (dBA) (feet) No 40 80.7 140 No 40 85 140 No 40 81.7 140 No 40 83.6 140 No 40 83.6 140 No 40 83.6 140 No 40 84 140

			Results											
		Calculated (dE	SA)	Noise L	imits (dBA)					Noise L	imit Exceed	ance (dBA))	
			Day		Evening		Night	Night Day			Evening		Night	
Equipment		*Lmax Led	l Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		71.8	67.8 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		71.8	67.8 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		76.1	72.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		72.7	68.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		74.6	70.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		74.6	70.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		75.1	71.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		75.1	71.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	76.1	79.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Land Use Daytime Evening Night Description 45 Sienna Ranch Residential

> Equipment Spec

			Spec	A	Actual	Receptor	Estimated
	Impact		Lmax	L	_max	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40			80.7	180	0
Excavator	No	40			80.7	180	0
Grader	No	40		85		180	0
Dozer	No	40			81.7	180	0

Scraper	No 40	83.6 1	80 0			
Scraper	No 40		80 0			
Tractor	No 40		80 0			
Tractor	No 40	84 1	80 0			
	Resu					
	Calculated (dBA) Day	Noise Limits (dBA) Evening	Night	Day	Noise Limit Exceeda Evening	nce (dBA) Night
Equipment	*Lmax Leq Lmax	_	Leq Lmax	Leq Lmax	Leq Lmax	Leq Lmax Leq
Excavator	69.6 65.6 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Excavator Grader	69.6 65.6 N/A 73.9 69.9 N/A	N/A N/A N/A N/A	N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Dozer	70.5 66.6 N/A	N/A N/A	N/A N/A N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A N/A N/A N/A
Scraper	72.5 68.5 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Scraper	72.5 68.5 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Tractor Tractor	72.9 68.9 N/A 72.9 68.9 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Total	73.9 77.1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
	*Calculated Lmax is the Lo	udest value.				
	R	eceptor #4				
	Baselines (dBA)					
Description Land Use Residence to SW of Site Residential	Daytime Evening Nigh 71 45	t 45				
	Equi _l Spec	pment Actual Recepto	or Estimated			
	Impact Lmax	•	e Shielding			
Description	Device Usage(%) (dBA		(dBA)			
Excavator Excavator	No 40 No 40		20 0 20 0			
Grader	No 40		20 0			
Dozer	No 40		20 0			
Scraper Scraper	No 40 No 40		20 0 20 0			
Tractor	No 40		20 0			
Tractor	No 40	84 23	20 0			
	Resu	lts				
	Calculated (dBA)	Noise Limits (dBA)		_	Noise Limit Exceeda	
Equipment	Day *Lmax Leq Lmax	Evening Leq Lmax	Night Leq Lmax	Day Leq Lmax	Evening Leq Lmax	Night Leq Lmax Leq
Excavator	67.8 63.9 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Excavator	67.8 63.9 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Grader Dozer	72.1 68.2 N/A 68.8 64.8 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Scraper	70.7 66.7 N/A	N/A N/A	N/A N/A N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Scraper	70.7 66.7 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Tractor	71.1 67.2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Tractor Total	71.1 67.2 N/A 72.1 75.3 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
	*Calculated Lmax is the Lo				, ,	, , ,
	R	eceptor #5				
	Baselines (dBA)					
Description Land Use 50 Foot Reference Level Residential	Daytime Evening Nigh 55 45	t 45				
so voc nere ence zever nesidential	55 .5	.5				
	Equi _l Spec	pment Actual Recepto	or Estimated			
	Impact Lmax	·	e Shielding			
Description	Device Usage(%) (dBA) (dBA) (feet)	(dBA)			
Excavator Excavator	No 40 No 40		50 0 50 0			
Grader	No 40		50 0			
Dozer	No 40		50 0			
Scraper Scraper	No 40 No 40		50 0 50 0			
Tractor	No 40		50 0			
Tractor	No 40		50 0			
	Resu	Its				
	Calculated (dBA)	Noise Limits (dBA)	Niah+	Day	Noise Limit Exceeda	
Equipment	Day *Lmax Leq Lmax	Evening Leq Lmax	Night Leq Lmax	Day Leq Lmax	Evening Leq Lmax	Night Leq Lmax Leq
Excavator	80.7 76.7 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Excavator	80.7 76.7 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Grader Dozer	85 81 N/A 81.7 77.7 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Scraper	83.6 79.6 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Scraper	83.6 79.6 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A
Tractor Tractor	84 80 N/A 84 80 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Total	85 88.2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A

*Calculated Lmax is the Loudest value.

Terraces of Lafayette

Construction Noise - Unmitigated 50

Reference Noise Distance
Reference Noise Level (from RCNM)

88.2

			Maximum			
			Construction	Existing		
	Distance	Attenuation	Noise Level	Ambient (dBA,	New Ambient	
Sensitive Receptor	(feet)	Factors	(RCNM)	Leq)	(dBA, Leq)	Increase
Arcalane High School	400	0	70.1	68.4	72.4	4.0
Residences East of Site	140	0	79.3	54.9	79.3	24.4
Sienna Ranch	180	0	77.1	68	77.6	9.6
Deer Hill Residence SW of Site	220	0	75.3	71	76.7	5.7

A 6 dBA attenuation was given for hard ground surfuce, and 3 dBA reduction was given for the first row of buildings intervening between the construction site and sensitive receptors (1.5 dBA for subsequent intervening structures), as recommended by the Caltrans Technical Noise Supplement.

Vibration levels generated using propogation formulas provided by the FTA Noise and Vibration Impact Assessment Manual (2018).

Terraces of	f Lafayette (Construction	Equipment Vibration Arcalane High School
Ref=	Reference	ibration lev	vel (PPV)
RefD=	Reference of	distance for	Reference vibration level (Feet)
	Vibration P	PV	
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	400	Distance from equipment to sensitive receptor
	Equip=	0.001	
	Annoyance	VdB	
	Ref=	87	Based on type of equipment
	RefD=	25	
	D=	400	Distance from equipment to sensitive receptor
	Equip=	51	
Peak vibratio	n based on util	izing a large bı	ılldozer.
Source: FTA T	ranist Noise a	nd Vibration Ir	npact Assessment Manual, 2018.

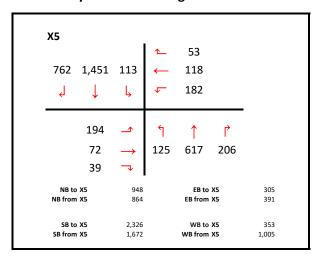
Terraces of	f Lafayette (Construction	n Equipment Vibration Sienna Ranch
Ref=	Reference	vibration le	vel (PPV)
RefD=	Reference	distance for	Reference vibration level (Feet)
	Vibration F	PPV	
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	180	Distance from equipment to sensitive receptor
	Equip=	0.005	
	Annoyance	· VdB	
	Ref=	87	Based on type of equipment
	RefD=	25	
	D=	180	Distance from equipment to sensitive receptor
	Equip=	61	
Peak vibratio	on based on util	izing a large b	ulldozer.
Source: FTA	Tranist Noise a	nd Vibration I	npact Assessment Manual, 2018.

Terraces of	Lafayette C	Construction	n Equipment Vibration Residences East of Site
Ref=	Reference v	ibration le	vel (PPV)
RefD=	Reference o	distance for	Reference vibration level (Feet)
	Vibration P	PV	
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	140	Distance from equipment to sensitive receptor
	Equip=	0.007	
	Annoyance	VAR	
	Ref=		Based on type of equipment
	RefD=	25	based on type of equipment
	D=		Distance from equipment to sensitive receptor
	Equip=	65	2 istance nom equipment to sensitive receptor
Peak vibratio	n based on util	izing a large b	ulldozer.
Source: FTA T	ranist Noise a	nd Vibration In	npact Assessment Manual, 2018.

Terraces	of Lafayette C	Construction	n Equipment Vibration Deer Hill Residence SW of Site
Ref=	Reference v	vibration le	vel (PPV)
RefD=	Reference of	distance for	Reference vibration level (Feet)
	Vibration P	PV	
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	220	Distance from equipment to sensitive receptor
	Equip=	0.003	
	Annovance	VAR	
	Ref=		Based on type of equipment
	RefD=	25	based on type of equipment
	D=		Distance from equipment to sensitive receptor
	Equip=	59	Sistemed from equipment to denotative receptor
Peak vibrat	tion based on util	izing a large b	ulldozer.
Course ET	A Tranist Noise a	nd Vibration I	mpact Assessment Manual, 2018.

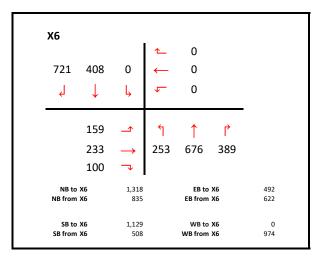
Terraces of Lafayette Traffic Noise Analysis

Terraces of Lafayette AM Existing



X5 Pleasant Hill Road at Deer Hill Road

NB to X5	948	0	0	EB to X5	305	0	0
NB from X5	864	0	0	EB from X5	391	0	0
SB to X5	2326	0	0	WB to X5	353	0	0
SB from X5	1672	0	0	WB from X5	1005	0	0



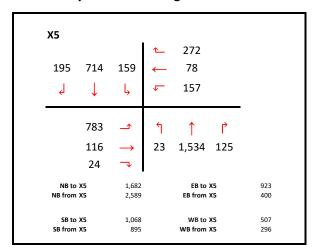
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1318	0	0	EB to X6	492	0	0
NB from X6	835	0	0	EB from X6	622	0	0
SB to X6	1129	0	0	WB to X6	0	0	0
SB from X6	508	0	0	WB from X6	974	0	0

X8 5 737 23 8 12 133 9 294 45 46 5 39 NB to X8 EB to X8 342 NB from X8 EB from X8 19 352 SB to X8 43 WB to X8 875 SB from X8 180 WB from X8 805

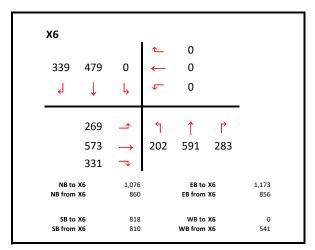
NB to X8	96	0	0	EB to X8	342	0	0
NB from X8	19	0	0	EB from X8	352	0	0
SB to X8	43	0	0	WB to X8	875	0	0
SB from X8	180	0	0	WB from X8	805	0	0

Terraces of Lafayette PM Existing



X5 Pleasant Hill Road at Deer Hill Road

NB to X5	1682	0	0	EB to X5	923	0	0
NB from X5	2589	0	0	EB from X5	400	0	0
SB to X5	1068	0	0	WB to X5	507	0	0
SB from X5	895	0	0	WB from X5	296	0	0



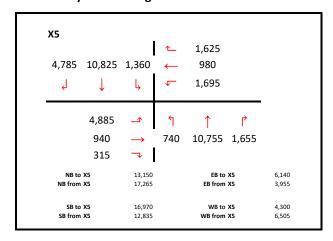
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1076	0	0	EB to X6	1173	0	0
NB from X6	860	0	0	EB from X6	856	0	0
SB to X6	818	0	0	WB to X6	0	0	0
SB from X6	810	0	0	WB from X6	541	0	0

X8						
			←	8		
10	11	3	←	275		
٢	\downarrow	Ļ	₩	68		
	25	1	þ	↑	ľ	
	832	\rightarrow	37	7	93	
	60	→				
NB to X8 137 NB from X8 40			EB to EB from		917 928	
SB to SB from		24 139		WB to WB from		351 322

NB to X8	137	0	0	EB to X8	917	0	0
NB from X8	40	0	0	EB from X8	928	0	0
SB to X8	24	0	0	WB to X8	351	0	0
SB from X8	139	0	0	WB from X8	322	0	0

Terraces of Lafayette Existing DAILY



X5 Pleasant Hill Road at Deer Hill Road

	ADT						
NB to X5	13150	0	0	EB to X5	6140	0	0
NB from X5	17265	0	0	EB from X5	3955	0	0
SB to X5	16970	0	0	WB to X5	4300	0	0
SB from X5	12835	0	0	WB from X5	6505	0	0

Х6							
			←	0			
5,300	4,435	0	\leftarrow	0			
Ļ	\downarrow	Ļ	✓	0			
	2,140	1	4	↑	ŗ		
	4,030	\rightarrow	2,275	6,335	3,360		
	2,155	\neg					
NB to X6 NB from X6		11,970 8,475		EB to		8,325 7,390	
SB to X6 SB from X6		9,735 6,590		WB to X6 WB from X6		0 7,575	

X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	11970	0	0	EB to X6	8325	0	0
NB from X6	8475	0	0	EB from X6	7390	0	0
SB to X6	9735	0	0	WB to X6	0	0	0
SB from X6	6590	0	0	WB from X6	7575	0	0

Х8						
			~_	65		
165	95	75	←	5,060		
٦	\downarrow	Ļ	Ļ	1,005		
	170	4	4	↑	ľ	
	5,630	\rightarrow	410	60	695	
	495	→				
NB to 2		1,165		EB to X8		6,295
NB from X8		295		EB from	Х8	6,400
SB to X8 SB from X8		335 1,595		WB to WB from		6,130 5,635

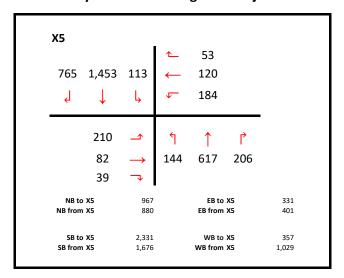
X8 Deer Hill Road at Miller Drive/Brown Avenue

NB to X8	1165	0	0	EB to X8	6295	0	0
NB from X8	295	0	0	EB from X8	6400	0	0
SB to X8	335	0	0	WB to X8	6130	0	0
SB from X8	1595	0	0	WB from X8	5635	0	0

Daily Existing Totals

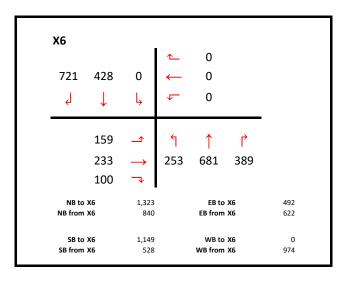
ADT X5:	8112
ADT X6:	6006
ADT X8:	2785

Terraces of Lafayette AM Existing Plus Project



X5 Pleasant Hill Road at Deer Hill Road

NB to X5	967	0	0	EB to X5	331	0	0
NB from X5	880	0	0	EB from X5	401	0	0
SB to X5	2331	0	0	WB to X5	357	0	0
SB from X5	1676	0	0	WB from X5	1029	0	0



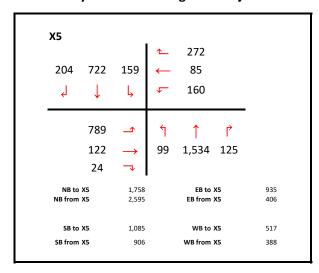
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1323	0	0	EB to X6	492	0	0
NB from X6	840	0	0	EB from X6	622	0	0
SB to X6	1149	0	0	WB to X6	0	0	0
SB from X6	528	0	0	WB from X6	974	0	0

X8							
			←	5			
23	8	12	\leftarrow	760			
٢	\downarrow	Ļ	┰	133			
	9	 	4	↑	Ļ		
	299	\rightarrow	45	5	46		
	39	⊸					
NB to		96 19		EB to X8		347	
NB from	NB from X8			EB from	X8	357	
SB to X8		43	43		X8	898	
SB from	X8	180		WB from X8		828	

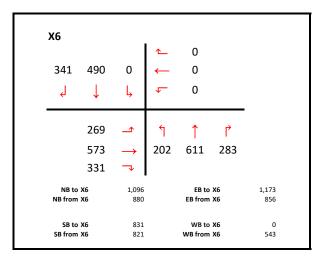
NB to X8	96	0	0	EB to X8	347	0	0
NB from X8	19	0	0	EB from X8	357	0	0
SB to X8	43	0	0	WB to X8	898	0	0
SB from X8	180	0	0	WB from X8	828	0	0

Terraces of Lafayette PM Existing Plus Project



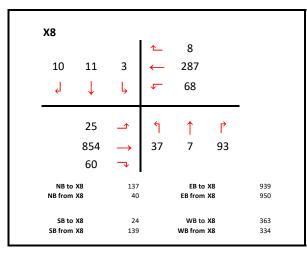
X5 Pleasant Hill Road at Deer Hill Road

NB to X5	1758	0	0	EB to X5	935	0	0
NB from X5	2595	0	0	EB from X5	406	0	0
SB to X5	1085	0	0	WB to X5	517	0	0
SB from X5	906	0	0	WB from X5	388	0	0



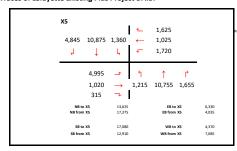
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1096	0	0	EB to X6	1173	0	0
NB from X6	880	0	0	EB from X6	856	0	0
SB to X6	831	0	0	WB to X6	0	0	0
SB from X6	821	0	0	WB from X6	543	0	0



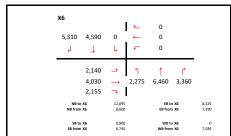
NB to X8	137	0	0	EB to X8	939	0	0
NB from X8	40	0	0	EB from X8	950	0	0
SB to X8	24	0	0	WB to X8	363	0	0
SB from X8	139	0	0	WB from X8	334	0	0

Terraces of Lafayette Existing Plus Project DAILY



X5 Pleasant Hill Road at Deer Hill Road

	ADT				ADT			Percent Increase from Existing	
NB to XS	13625	0	0	EB to XS	6330	0	0	3	%
NB from XS	17375	0	0	EB from XS	4035	0	0	o	ni
SB to XS	17080	0	0	WB to XS	4370	0	0	2	26
SB from XS	12910	0	0	WB from XS	7085	0	0	9	26
	NB from XS SB to XS	NB to XS 136/35 NB from XS 17275 SB to XS 17080	NB to XS 13635 0 NB from XS 17235 0 SB to XS 17080 0	N8 to XS 13635 0 0 N8 from XS 127375 0 0 0 S8 to XS 127000 0 0 0	NB to XS 13635 0 0 EB to XS NB from XS 17975 0 0 EB from XS SB to XS 17900 0 0 WB to XS	N8 to XS 13625 0 0 E8 to XS 6330 N8 from XS 17775 0 0 E8 from XS 4035 SS to XS 17080 0 0 W8 to XS 4370	N8 to XS 13625 0 0 £8 to XS 6330 0 N8 from XS 37375 0 0 £8 from XS 4035 0 S8 to XS 37000 0 0 W8 to XS 4370 0	N8 to X5 13625 0 0 688 to X5 6330 0 0 0 N8 from X5 137975 0 0 688 from X5 4035 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N8 to XS 13625 0 0 E8 to XS 6330 0 0 3 A8 from XS 127275 0 0 E8 from XS 4205 0 0 0 5 S6 to XS 127080 0 0 W8 to XS 4270 0 0



X6 Pleasant Hill at Mount Diablo Boulevard

disting									Percent Increase from Existing	
100%	NB to X6	12095	0	0	EB to X6	8325	0	0		0%
1%	NB from X6	8600	0	0	EB from X6	7390	0	0		0%
2%	SB to X6	9900	0	0	WB to X6	0	0	0	#DIV/01	
2%	SB from X6	6745	0	0	WB from X6	7585	0	0		0%

e to individual turn volumes exceeding 100%, a segment analysis is provided at the bottom of the page

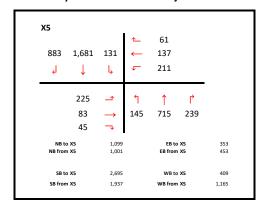
X8						
				65		
165	95	75	←	5,235		
Ą	\downarrow	Ļ	₽	1,005		
	170	_	'n	1	ľ	
	5,765	\rightarrow	410	60	695	
	495	⊸				
NB to NB from		1,165 295		EB to		6,430 6,535
SB to SB from		335 1,595		WB to		6,305 5,810

X8 Deer Hill Road at Miller Drive/Brown Avenue

В									Percent Increase from Existing	
0%	NB to X8	1165	0	0	EB to X8	6430	0	0		2%
0%	NB from X8	295	0	0	EB from X8	6535	0	0		2%
0%	SB to X8	335	0	0	WB to X8	6305	0	0		3%
0%	SB from X8	1595	0	0	WB from X8	5810	0	0		3%
		-					-		ļ!	

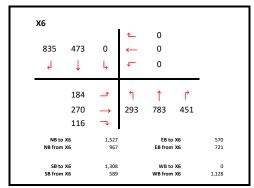
Percent Increase

Terraces of Lafayette AM Future No Project



X5 Pleasant Hill Road at Deer Hill Road

NB to X5	1099	0	0	EB to X5	353	0	0
NB from X5	1001	0	0	EB from X5	453	0	0
SB to X5	2695	0	0	WB to X5	409	0	0
SB from X5	1937	0	0	WB from X5	1165	0	0



X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1527	0	0	EB to X6	570	0	0
NB from X6	967	0	0	EB from X6	721	0	0
SB to X6	1308	0	0	WB to X6	0	0	0
SB from X6	589	0	0	WB from X6	1128	0	0

Х8							
			←	6			
27	9	14	←	854			
ل	\downarrow	Ļ	ţ	154			
	10	4	4	↑	ļ		
	341	\rightarrow	52	6	53		
	45	→					
NB to NB from		111 22		EB to EB from		396 408	
SB to SB from		50 208		WB to WB from		1,014 933	

0	0	396	EB to X8	0	0	111	NB to X8
0	0	408	EB from X8	0	0	22	NB from X8
0	0	1014	WB to X8	0	0	50	SB to X8
0	0	933	WB from X8	0	0	208	SB from X8

Terraces of Lafayette PM Future No Project

Х5					
			315		
226 827	184	←	90		
₹ ↑	Ļ	┰	182		
907	\	4	↑	ļ,	
134	\rightarrow	27	1,777	145	
28	→				
NB to X5 NB from X5	1,949 2,999		EB to EB from		1,069 463
SB to X5	1,237		WB to	Х5	587
SB from X5	1,037		WB from	X5	343

X5 Pleasant Hill Road at Deer Hill Road

NB to X5	1949	0	0	EB to X5	1069	0	0
NB from X5	2999	0	0	EB from X5	463	0	0
SB to X5	1237	0	0	WB to X5	587	0	0
SB from X5	1037	0	0	WB from X5	343	0	0

Х6						
			←	0		
393	555	0	←	0		
٢	\downarrow	Ļ	↓	0		
	312	\	4	↑	۲	
	664	\rightarrow	234	685	328	
	384	→				
NB to		1,247		EB to		1,360
NB from	1 X6	997		EB from	1 X6	992
SB to		948		WB to		0
SB from	X6	939		WB from	1 X6	627

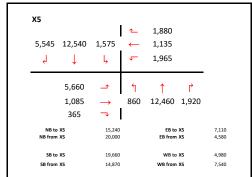
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1247	0	0	EB to X6	1360	0	0
NB from X6	997	0	0	EB from X6	992	0	0
SB to X6	948	0	0	WB to X6	0	0	0
SB from X6	939	0	0	WB from X6	627	0	0

X8						
				9		
12	13	3	←	319		
Ą	\downarrow	Ļ	₩	79		
	29	_	4	↑	ŗ	
	964	\rightarrow	43	8	108	
	70	⊸				
NB to	X8	159		EB to	x8	1,063
NB from	X8	46		EB fron	1 X8	1,075
SB to	X8	28		WB to X8		407
SB from	X8	162		WB from X8		374

NB to X8	159	0	0	EB to X8	1063	0	0
NB from X8	46	0	0	EB from X8	1075	0	0
SB to X8	28	0	0	WB to X8	407	0	0
SB from X8	162	0	0	WB from X8	374	0	0

Terraces of Lafayette Future No Project DAILY



X5						
			←	1,880		
5,545	12,540	1,575	←	1,135		
٢	\downarrow	Ļ	₽	1,965		
	5,660	1	4	↑	ľ	
	1,085	\rightarrow	860	12,460	1,920	
	365	⊸				
NB to X5		15,240		EB to		7,110
NB from	X5	20,000	000 EB from X5		Х5	4,580
SB to	X5	19,660	WB to X5			4,980
SB from	X5	14,870	WB from X5			7,540

Pleasant Hill Road at Deer Hill Road

NB to X5	15240	0	0	EB to X5	7110	0	0
NB from X5	20000	0	0	EB from X5	4580	0	0
SB to X5	19660	0	0	WB to X5	4980	0	0
SB from X5	14870	0	0	WB from X5	7540	0	0

X6					
		1	0		
6,140 5,140	0	\leftarrow	0		
∮ ↓	Ļ	✓	0		
2,480	<u>_</u>	4	↑	ľ	
4,670	\rightarrow	2,635	7,340	3,895	
2,500	\neg				
NB to X6 NB from X6	13,870 9,820		EB to		9,65 8,56
SB to X6 SB from X6	11,280 7,640		WB to		8,77

Х6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	13870	0	0	EB to X6	9650	0	0
NB from X6	9820	0	0	EB from X6	8565	0	0
SB to X6	11280	0	0	WB to X6	0	0	0
SB from X6	7640	0	0	WB from X6	8775	0	0

Х8			_			
			←	75		
195	110	85	\leftarrow	5,865		
Ą	\downarrow	Ļ	\	1,165		
	195	→	Í	↑	ŗ	
	6,525	\rightarrow	475	70	805	
	575	→				
NB to X8		1,350		EB to		7,295
NB from	X8	340		7,415		
SB to		390	WB to X8 WB from X8			7,105
SB from	X8	1,850		6,535		

NB to X8	1350	0	0	EB to X8	7295	0	0
NB from X8	340	0	0	EB from X8	7415	0	0
SB to X8	390	0	0	WB to X8	7105	0	0
SB from X8	1850	0	0	WB from X8	6535	0	0

ADT X5:	9398
ADT X6:	6960
ADT VO-	2220

Terraces of Lafayette AM Future Plus Project

X5			-			
			_	61		
886	1,683	131	\leftarrow	139		
٢	\downarrow	Ļ	Ļ	213		
	241	4	4	↑	Ļ	
	93	\rightarrow	164	715	239	
	45	⊸				
NB to	Х5	1,118		EB to	X5	379
NB from X5		1,017		EB from	Х5	46
		2,700	WB to X5			41
SB from	X5	1,941		WB from	X5	1,18

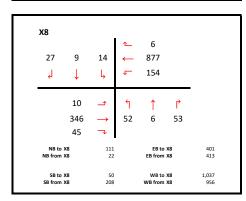
X5 Pleasant Hill Road at Deer Hill Road

ſ	NB to X5	1118	0	0	EB to X5	379	0	0
	NB from X5	1017	0	0	EB from X5	463	0	0
	SB to X5	2700	0	0	WB to X5	413	0	0
Ī	SB from X5	1941	0	0	WB from X5	1189	0	0

		←	0		
493	0	←	0		
\downarrow	Ļ	L	0		
184	_	4	↑	Ļ	
270	\rightarrow	293	788	451	
116	⊸				
X6					570
Х6	9/2		EB from	Хб	721
х6					0 1,128
	184 270 116	184	$ \begin{array}{ccccc} & \downarrow & \downarrow & & \downarrow \\ 184 & -1 & \uparrow & \\ 270 & \longrightarrow & 293 \\ 116 & \longrightarrow & & \\ K6 & & & 1,532 \\ K6 & & & & 972 \\ K6 & & & & & 1,328 \\ \end{array} $	493 0 ← 0 ↓ ↓	493 0 ← 0 ↓ ↓

X6 Pleasant Hill at Mount Diablo Boulevard

No W	4533			FD 4 - VC	570		
NB to X6	1532	U	U	EB to X6	570	U	U
NB from X6	972	0	0	EB from X6	721	0	C
SB to X6	1328	0	0	WB to X6	0	0	C
SB from X6	609	0	0	WB from X6	1128	0	C



NB to X8	111	0	0	EB to X8	401	0	0
							ı
NB from X8	22	0	0	EB from X8	413	0	0
SB to X8	50	0	0	WB to X8	1037	0	0
SB from X8	208	0	0	WB from X8	956	0	0

Terraces of Lafayette PM Future Plus Project

X5						
			_	315		
235	835	184	←	97		
ل	\downarrow	Ļ	Ļ	185		
	913	├	Í	1	ŗ	
	140	\rightarrow	103	1,777	145	
	28	⊸				
NB to		2,025 3,005		EB to EB from		1,081 469
SB to	Х5	1,254		WB to	X5	597
SB from		1,048		WB from		435

X5 Pleasant Hill Road at Deer Hill Road

NB to X5	2025	0	0	EB to X5	1081	0	0
NB from X5	3005	0	0	EB from X5	469	0	0
SB to X5	1254	0	0	WB to X5	597	0	0
SB from X5	1048	0	0	WB from X5	435	0	0

Х6						
			←	0		
395	566	0	←	0		
ل	\downarrow	Ļ	Ļ	0		
	312	_	4	↑	r	
	664	\rightarrow	234	705	328	
	384	⊸				
NB to NB from		1,267 1,017		EB to		1,360 992
SB to		961		WB to		0
SB from	X6	950		WB from	n X6	629

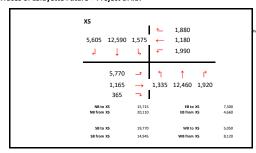
X6 Pleasant Hill at Mount Diablo Boulevard

NB to X6	1267	0	0	EB to X6	1360	0	0
NB from X6	1017	0	0	EB from X6	992	0	0
SB to X6	961	0	0	WB to X6	0	0	0
SB from X6	950	0	0	WB from X6	629	0	0

х8						
			←	9		
12	13	3	←	331		
٢	\downarrow	Ļ	~	79		
	29	_	4	↑	r	
	986	\rightarrow	43	8	108	
	70	⊸				
NB to NB from		159 46		EB to		1,085 1,097
SB to SB from		28 162		WB to		419 386

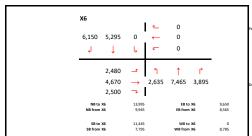
NB to X8	159	0	0	EB to X8	1085	0	0
NB from X8	46	0	0	EB from X8	1097	0	0
SB to X8	28	0	0	WB to X8	419	0	0
SB from X8	162	0	0	WB from X8	386	0	0

Terraces of Lafayette Future + Project DAILY



X5 Pleasant Hill Road at Deer Hill Road

5									Percent Increase from Existing	
3%	NB to XS	15715	0	0	EB to XS	7300	0	0		3%
1%	NB from XS	20110	0	0	EB from XS	4660	0	0		0%
1%	SB to XS	19770	0	0	WB to XS	5050	0	0		1%
1%	SB from XS	14945		0	WB from XS	8120		0		8%



X6 Pleasant Hill at Mount Diablo Boulevard

ting									Percent Increase from Existing	
100%	NB to X6	13995	0	0	EB to X6	9650	0	0		0
1%	NB from X6	9945	0	0	EB from X6	8565	0	0		0
1%	SB to X6	11445	0	0	WB to X6	0	0	0	#DIV/0!	
2%	SB from X6	7795	0	0	WB from X6	8785	0	0		01

e to individual turn volumes exceeding 100%, a segment analysis is provided at the bottom of the page.

X8 195 ↓	110 ↓	85 Ļ	1 1 1	75 6,040 1,165			Percent Increase from Existing
	195 6,660 575	_↑ → ¬	ή 475	↑ 70	1 ³ 805		
NB to NB from		1,350 340		EB to EB from		7,430 7,550	
SB to SB from		390 1,850		WB to WB from		7,280 6,710	

X8 Deer Hill Road at Miller Drive/Brown Avenue

16									Percent Increase from Existing
0%	NB to X8	1350	0	0	EB to X8	7430	0	0	2%
0%	NB from X8	340	0	0	EB from X8	7550	0	0	2%
0%	SB to XB	390	0	0	WB to X8	7280	0	0	2%
0%	SB from X8	1850	0	0	WB from X8	6710	0	0	3%

Percent Increase