a Cañada Unified School District—New Outdoor Pool Facility and
outh of Campus Improvement Project
nitial Study/Mitigated Negative Declaration

Appendix F: Noise Supporting Information



Project Number: 5153.0002 Sheet of 3 Project Name: La Cañada High School Noise monitoring Test Personnel: Kevin Bolland **Noise Measurement Survey** Site Number: 5T-3 Date: October 23, 2019 Time: From 1048 To 1103 Site Location: ST-3, on concrete Basketball courts. Between court 1 & Z. Primary Noise Sources: Traffic from freeway **Measurement Results Observed Noise Sources/Events** Noise Source/Event dBA Time dBA 60.6 Motorcycle on freeway 620 Leq 1052 62.5 68.6 Lmax 1053 motorcycle passing school Lmin 57.4 Large Truck on free way 6101 1058 1100 Large Timeleon freeway 62.3 L5 622 L10 1101 Tuck passing school 61.8 61.8 L50 60.4 L90 59.0 Ldn **CNEL** Comments: Measured Difference: __O.co 3 dBA Equipment: Larger Davis LXTZ Windscreen□ Settings: A-Weighted□ Other□ Slow□ Fast□ **Atmospheric Conditions:** Maximum Wind Average Wind Relative Velocity (mph) Velocity (mph) Temperature (F) Humidity (%) 3.8 1.4 89.5 14

Comments:

Project Number: 5153 0002

Project Name: La Cañada High School

Test Personnel: Kryin Bolland

No	ise	M	easur	ement	Su	rvey
----	-----	---	-------	-------	----	------

Site Number: 5T-1 Date: 10/23/19 Time: From 1117 To

Site Location:

ST-1, Approximately 25 feet from the corner of Berkshive and foothill road under a tree

Primary Noise Sources: Traffic, Passing Street Sweepers, Tracks, Pedestrians

Measurement Results

	dBA
Leq	67.4
Lmax	79.6
Lmin	56.0
L5	72.4
L10	70.8
L50	64,9
L90	59.9
Ldn	
CNEL	5 11

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
1118	StreetSweeper	72.5
1119	5 treet sweeper	71.6
1120	Passing Bas	71.2
1122	Passing Truck	69.8
	Street Sweeper & Truck	69.9
1124	Passing Truck	731
1124	Passing Truck	74.0
1127	Helicopter	72.7
1130	passing Truck	72.2

Comments:	multiple	Street sweepers	made	multiple	passes.
		P-F-Trib	N/		

Measured Difference: 0,00 Equipment: Larson Davis LXTZ Settings: A-Weighted□ Other□_ Slow□ Fast□

Atmospheric Conditions:

Maximum Wind	Average Wind		Relative	
Velocity (mph)	Velocity (mph)	Temperature (F)	Humidity (%)	
3.8	1,0	86.9	14	
Comments:				

Project Number: 5153.0007 Sheet $\frac{3}{9}$ of $\frac{3}{9}$ Project Name: La Canada High School Test Personnel: Kevin Bolland **Noise Measurement Survey** Site Number: <u>5T-2</u> Date: <u>10-23-19</u> Time: From <u>1141</u> To <u>1156</u> Site Location: 57-2 - Approximately 100 feet from free way on ramp, gross the street from the mothodist church on the side wilk Primary Noise Sources: Street Suce per Kept making passes. Passing TMCKS, cars. Freeway Ambient Moise. **Observed Noise Sources/Events Measurement Results** Noise Source/Event dBA Time dBA 1141 70.2 Street Sweeper 84.7 Leq 85.6 1142 75.1 Lmax Street Sweeper 1145 Passing Truck 85.0 Lmin 55.9 83.1 Par Ssing Truck L5 76.2 1146 L10 72.5 1147 Passing Truck 85.5 65.0 1150 78.Z L50 Passing Truck L90 1154 77.3 60.1 Passing Truck Ldn 8.08 1155 Passing Truck CNEL Comments: Equipment: Largen Davis LXT 2 Measured Difference: -0,05 dBA Settings: A-Weighted□ Other□____ Slow□ Fast□ Windscreen⊡ **Atmospheric Conditions:** Average Wind Maximum Wind Relative Velocity (mph) Temperature (F) Velocity (mph) Humidity (%) 6.7 90.2 14

Comments:

Photos Taken:

Photo Number	Location/Description
	regional to amineralist said
	The state of the s

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts

Diagram/Further Comments: Basketball courts Chain link fence Sidewalk Oak Chain INK ST-Z Berkshire Pl. Vacant Lot La Cañala Methodist Church

Parking Lot activity

Receptor: La Canada Methodist Church located south of lot

receptor	La Canada Metrodist Church located 30dth of lot									
		Reference (dBA)		Hoose	Distance to	Cround	Chielding	Calaulai	(-IDA)	
		50 ft		Usage	Distance to	Ground	Shielding	Calculat	ed (dBA)	
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	parking lot activity	70	3	1	280	1	5	50.0	27.3	540.2032264
2	parking lot activity	70	2	1	300	1	5	49.4	24.7	292.8034871
3	parking lot activity	70	2	1	315	1	5	49.0	24.0	252.9346611
4	parking lot activity	70	2	1	330	1	5	48.6	23.4	219.9875936
5										
6										
7										
8										
9										
10										
Notes:	•	•					Lmax[4]	50	Leq	31

[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to terrain or structures
[4] Calculated Lmax is the Loudest value.

TABLE Existing-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Foothill Boulevard - west of Oak Grove Drive

NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.51	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.19
H-TRUC	CKS		
	0.64	0.02	0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	75.2	160.3

TABLE Existing-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Oak Grove Drive - Foothill Boulevard to Berkshire Place NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15600 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.51	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.19
H-TRUC	CKS		
	0.64	0.02	0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	86.9	181.5

TABLE Existing-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Berkshire Place - west of Oak Grove Drive

NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12400 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.51	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.19
H-TRUC	CKS		
	0.64	0.02	0.08

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	98.3	206.8

TABLE Existing with Construction Traffic-01 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Foothill Boulevard - west of Oak Grove Drive

NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing with Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.49	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.19
H-TRUC	CKS		
	0.65	0.02	0.09

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	76.1	162.3

TABLE Existing with Construction Traffic-02 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Oak Grove Drive - Foothill Boulevard to Berkshire Place NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing with Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15700 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.48	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.20
H-TRUC	CKS		
	0.65	0.02	0.09

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERL	INE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	88.9	186.0

TABLE Existing with Construction Traffic-03 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/14/2020

ROADWAY SEGMENT: Berkshire Place - west of Oak Grove Drive

NOTES: New Outdoor Pool Facility and South of Campus Improvement Project

- Existing with Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS			
	75.48	12.57	9.34
M-TRUC	CKS		
	1.56	0.09	0.20
H-TRUC	CKS		
	0.65	0.02	0.09

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

* * CALCULATED NOISE LEVELS * *

DISTANCE	(FEET) FROM	ROADWAY CENTERI	LINE TO CNEL
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	100.4	211.3