

APPENDIX D

Noise Data

Appendix D-1

Ambient Noise Data

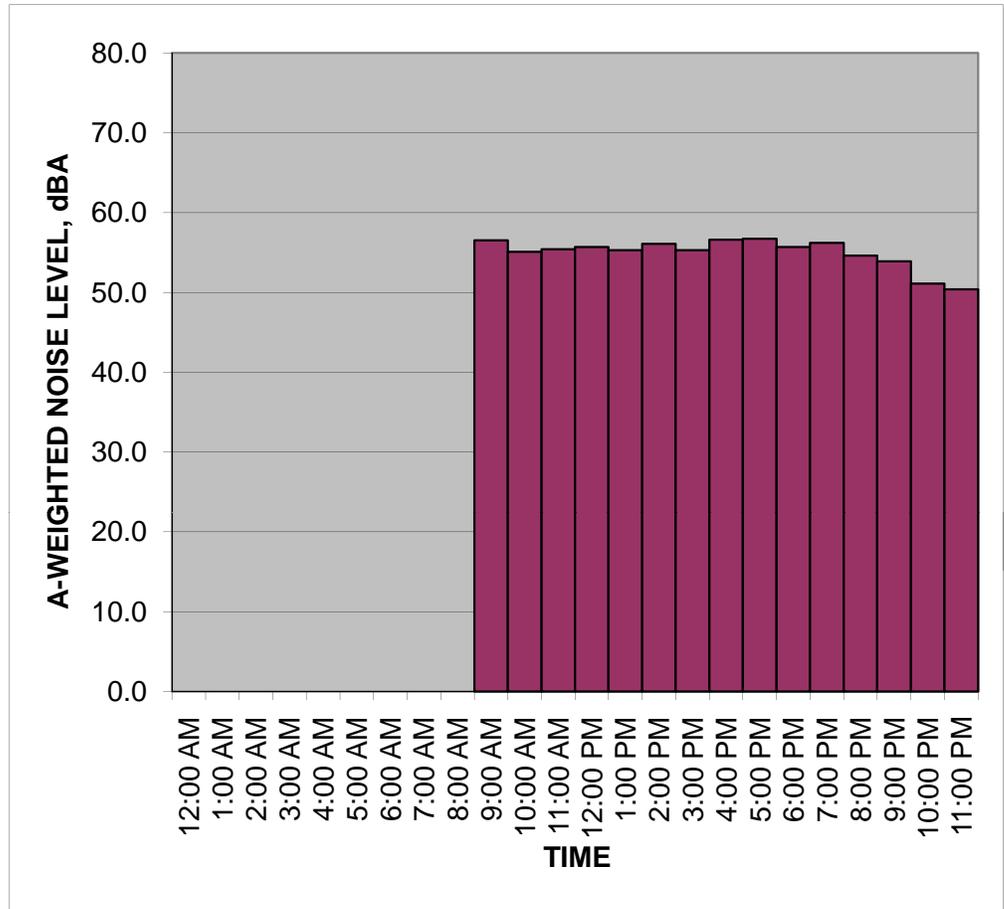
Measured Ambient Noise Levels



Project: HB Skate Park
 Location: R1 - East Property Line
 Sources: Ambient

Date: May 12, 2011

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	0.0
9:00 AM	56.5
10:00 AM	55.1
11:00 AM	55.4
12:00 PM	55.7
1:00 PM	55.3
2:00 PM	56.1
3:00 PM	55.3
4:00 PM	56.6
5:00 PM	56.7
6:00 PM	55.7
7:00 PM	56.2
8:00 PM	54.6
9:00 PM	53.9
10:00 PM	51.1
11:00 PM	50.4
CNEL, dB(A):	57.9



NOTES:

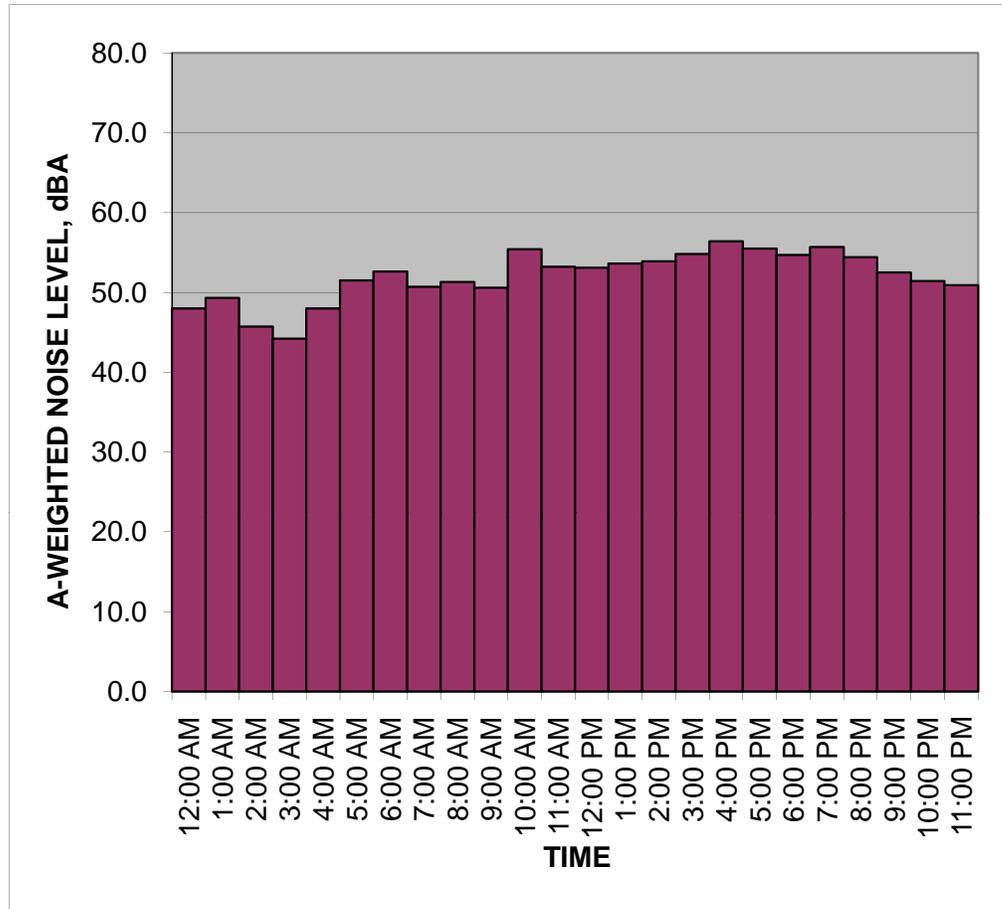
Measured Ambient Noise Levels



Project: HB Skate Park
 Location: R1 - East Property Line
 Sources: Ambient

Date: May 13, 2011

TIME	HNL, dB(A)
12:00 AM	48.0
1:00 AM	49.3
2:00 AM	45.7
3:00 AM	44.2
4:00 AM	48.0
5:00 AM	51.5
6:00 AM	52.6
7:00 AM	50.7
8:00 AM	51.3
9:00 AM	50.6
10:00 AM	55.4
11:00 AM	53.2
12:00 PM	53.1
1:00 PM	53.6
2:00 PM	53.9
3:00 PM	54.8
4:00 PM	56.4
5:00 PM	55.5
6:00 PM	54.7
7:00 PM	55.7
8:00 PM	54.4
9:00 PM	52.5
10:00 PM	51.4
11:00 PM	50.9
CNEL, dB(A):	57.7



NOTES:

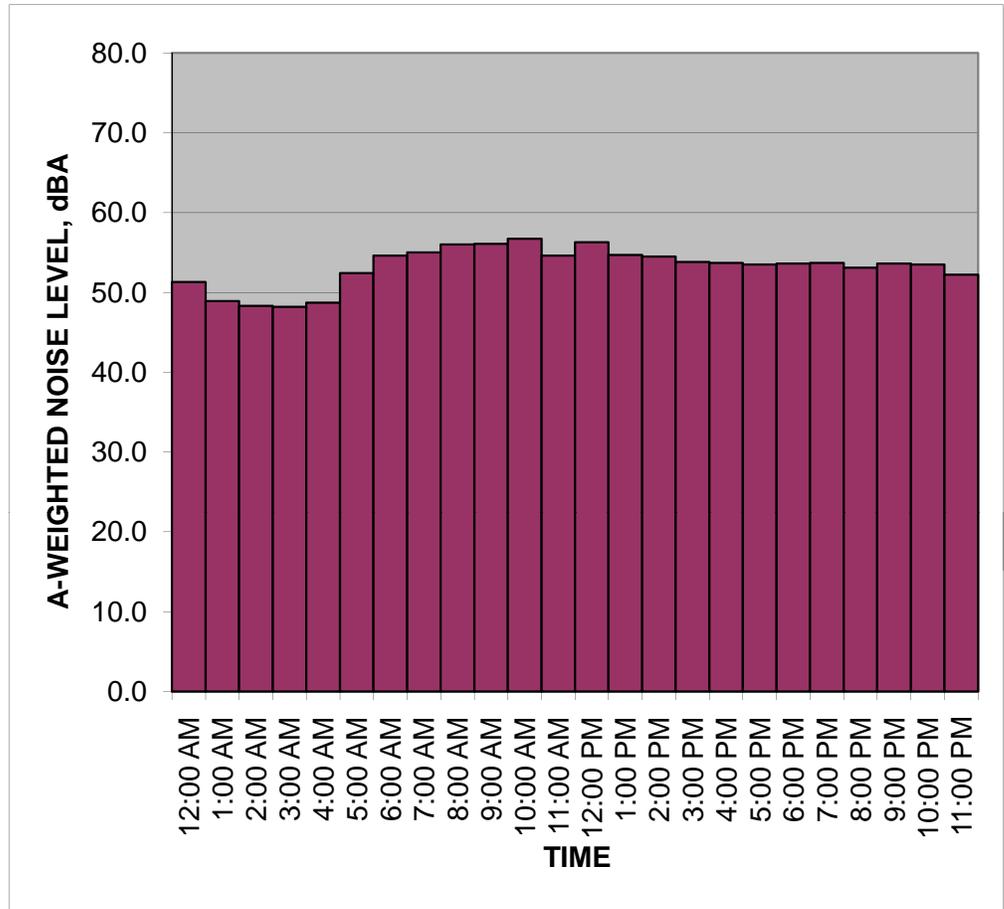
Measured Ambient Noise Levels



Project: HB Skate Park
 Location: R1 - East Property Line
 Sources: Ambient

Date: May 14, 2011

TIME	HNL, dB(A)
12:00 AM	51.3
1:00 AM	48.9
2:00 AM	48.3
3:00 AM	48.2
4:00 AM	48.7
5:00 AM	52.4
6:00 AM	54.6
7:00 AM	55.0
8:00 AM	56.0
9:00 AM	56.1
10:00 AM	56.7
11:00 AM	54.6
12:00 PM	56.3
1:00 PM	54.7
2:00 PM	54.5
3:00 PM	53.8
4:00 PM	53.7
5:00 PM	53.5
6:00 PM	53.6
7:00 PM	53.7
8:00 PM	53.1
9:00 PM	53.6
10:00 PM	53.5
11:00 PM	52.2
CNEL, dB(A):	58.9



NOTES:

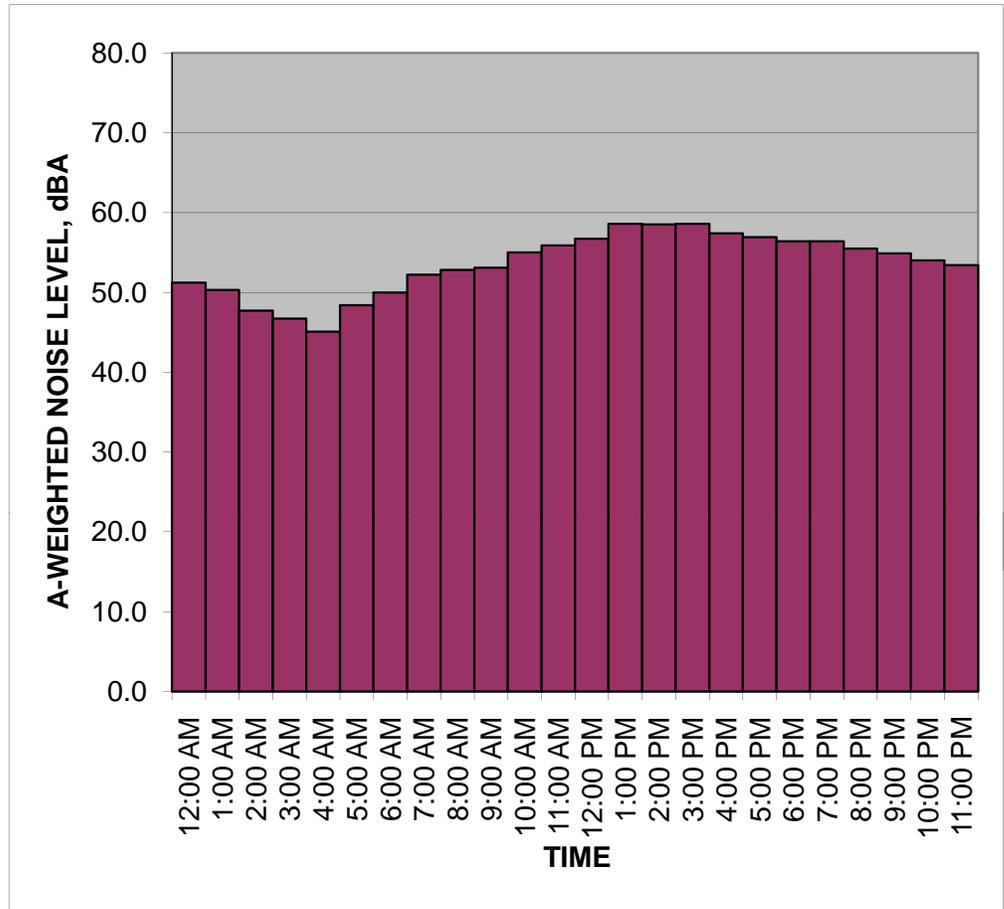
Measured Ambient Noise Levels



Project: HB Skate Park
 Location: R1 - East Property Line
 Sources: Ambient

Date: May 15, 2011

TIME	HNL, dB(A)
12:00 AM	51.2
1:00 AM	50.3
2:00 AM	47.7
3:00 AM	46.7
4:00 AM	45.1
5:00 AM	48.4
6:00 AM	50.0
7:00 AM	52.2
8:00 AM	52.8
9:00 AM	53.1
10:00 AM	55.0
11:00 AM	55.9
12:00 PM	56.7
1:00 PM	58.6
2:00 PM	58.5
3:00 PM	58.6
4:00 PM	57.4
5:00 PM	56.9
6:00 PM	56.4
7:00 PM	56.4
8:00 PM	55.5
9:00 PM	54.9
10:00 PM	54.0
11:00 PM	53.4
CNEL, dB(A):	59.0



NOTES:

Appendix D-2

Off-Site Traffic Noise Calculations

Roadway Traffic Noise Calculations

1 of 4



Project: Center Avenue Skate Park Project

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3175	3689	0	72.2	69.6	67.9	73.4	70.8	69.1
Goldenwest St between McFadden Ave. and Edinger Ave.	35	2910	3095	0	71.4	68.8	67.2	72.7	70.0	68.4
Goldenwest St s/o Edinger Ave.	35	2642	2738	0	70.9	68.3	66.6	72.1	69.5	67.9
Edinger Ave. w/o Goldenwest St.	35	1982	1939	0	69.5	66.9	65.2	70.7	68.1	66.5
Beach Blvd n/o McFadden Ave.	45	5180	5445	0	76.0	73.5	72.0	77.2	74.8	73.2
Future No Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3458	3976	0	72.5	69.9	68.3	73.7	71.1	69.5
Goldenwest St between McFadden Ave. and Edinger Ave.	35	3201	3398	0	71.9	69.2	67.6	73.1	70.4	68.8
Goldenwest St s/o Edinger Ave.	35	2951	2843	0	71.2	68.6	67.0	72.5	69.8	68.2
Edinger Ave. w/o Goldenwest St.	35	2157	2209	0	70.0	67.3	65.7	71.2	68.6	66.9
Beach Blvd n/o McFadden Ave.	45	5672	5958	0	76.3	73.9	72.4	77.6	75.2	73.6
Future With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3458	3980	0	72.5	69.9	68.3	73.8	71.1	69.5
Goldenwest St between McFadden Ave. and Edinger Ave.	35	3201	3398	0	71.9	69.2	67.6	73.1	70.4	68.8
Goldenwest St s/o Edinger Ave.	35	2953	2851	0	71.2	68.6	67.0	72.5	69.8	68.2
Edinger Ave. w/o Goldenwest St.	35	2159	2218	0	70.0	67.4	65.7	71.2	68.6	66.9
Beach Blvd n/o McFadden Ave.	45	5672	5963	0	76.3	73.9	72.4	77.6	75.2	73.6

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
Goldenwest St between Bolsa Ave. and McFadden Ave.	0.0	0.3	0.1	0.4
Goldenwest St between McFadden Ave. and Edinger Ave.	0.0	0.4	0.0	0.4
Goldenwest St s/o Edinger Ave.	0.0	0.3	0.0	0.4
Edinger Ave. w/o Goldenwest St.	0.0	0.5	0.0	0.5
Beach Blvd n/o McFadden Ave.	0.0	0.4	0.0	0.4

Vehicle Type	% of ADT			Sub total
	Day	Eve	Night	
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Roadway Traffic Noise Calculations
2 of 4



Project: Center Avenue Skate Park Project

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1570	1494	0	69.2	66.2	64.5	70.4	67.4	65.7
McFadden Ave. between Goldenwest St. and Gothard St.	35	1077	1305	0	68.4	65.4	63.7	69.6	66.6	64.9
McFadden Ave. between Gothard St. and Beach Blvd.	30	1760	1907	0	71.0	66.9	64.8	72.2	68.1	66.0
McFadden Ave. e/o Beach Blvd.	35	1730	2030	0	70.3	67.4	65.6	71.6	68.6	66.8
Gothard St. between McFadden Ave. and Center Ave.	35	992	1291	0	68.4	65.4	63.6	69.6	66.6	64.8
Future No Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1610	1510	0	69.3	66.3	64.6	70.5	67.6	65.8
McFadden Ave. between Goldenwest St. and Gothard St.	35	1200	1315	0	68.5	65.5	63.7	69.7	66.7	64.9
McFadden Ave. between Gothard St. and Beach Blvd.	30	1874	2042	0	71.3	67.2	65.1	72.5	68.4	66.3
McFadden Ave. e/o Beach Blvd.	35	1907	2217	0	70.7	67.7	66.0	71.9	68.9	67.2
Gothard St. between McFadden Ave. and Center Ave.	35	1244	1474	0	68.9	66.0	64.2	70.2	67.2	65.4
Future With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1610	1514	0	69.3	66.3	64.6	70.5	67.6	65.8
McFadden Ave. between Goldenwest St. and Gothard St.	35	1206	1345	0	68.5	65.6	63.8	69.8	66.8	65.0
McFadden Ave. between Gothard St. and Beach Blvd.	30	1874	2044	0	71.3	67.2	65.1	72.5	68.4	66.3
McFadden Ave. e/o Beach Blvd.	35	1907	2217	0	70.7	67.7	66.0	71.9	68.9	67.2
Gothard St. between McFadden Ave. and Center Ave.	35	1246	1484	0	69.0	66.0	64.2	70.2	67.2	65.5

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
McFadden Ave. w/o Goldenwest ST.	0.0	0.2	0.0	0.1
McFadden Ave. between Goldenwest St. and Gothard St.	0.1	0.2	0.1	0.2
McFadden Ave. between Gothard St. and Beach Blvd.	0.0	0.3	0.0	0.3
McFadden Ave. e/o Beach Blvd.	0.0	0.3	0.0	0.3
Gothard St. between McFadden Ave. and Center Ave.	0.0	0.6	0.0	0.6

Vehicle Type	% of ADT			Sub total
	Day	Even	Night	
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Roadway Traffic Noise Calculations
3 of 4



Project: Center Avenue Skate Park Project

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3175	3689	0	72.2	69.6	67.9	73.4	70.8	69.1
Goldenwest St between McFadden Ave. and Edinger Ave.	35	2910	3095	0	71.4	68.8	67.2	72.7	70.0	68.4
Goldenwest St s/o Edinger Ave.	35	2642	2738	0	70.9	68.3	66.6	72.1	69.5	67.9
Edinger Ave. w/o Goldenwest St.	35	1982	1939	0	69.5	66.9	65.2	70.7	68.1	66.5
Beach Blvd n/o McFadden Ave.	45	5180	5445	0	76.0	73.5	72.0	77.2	74.8	73.2
Existing With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3175	3689	0	72.2	69.6	67.9	73.4	70.8	69.1
Goldenwest St between McFadden Ave. and Edinger Ave.	35	2910	3095	0	71.4	68.8	67.2	72.7	70.0	68.4
Goldenwest St s/o Edinger Ave.	35	2642	2738	0	70.9	68.3	66.6	72.1	69.5	67.9
Edinger Ave. w/o Goldenwest St.	35	1982	1939	0	69.5	66.9	65.2	70.7	68.1	66.5
Beach Blvd n/o McFadden Ave.	45	5180	5445	0	76.0	73.5	72.0	77.2	74.8	73.2
Future With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St between Bolsa Ave. and McFadden Ave.	35	3458	3980	0	72.5	69.9	68.3	73.8	71.1	69.5
Goldenwest St between McFadden Ave. and Edinger Ave.	35	3201	3398	0	71.9	69.2	67.6	73.1	70.4	68.8
Goldenwest St s/o Edinger Ave.	35	2953	2851	0	71.2	68.6	67.0	72.5	69.8	68.2
Edinger Ave. w/o Goldenwest St.	35	2159	2218	0	70.0	67.4	65.7	71.2	68.6	66.9
Beach Blvd n/o McFadden Ave.	45	5672	5963	0	76.3	73.9	72.4	77.6	75.2	73.6

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
Goldenwest St between Bolsa Ave. and McFadden Ave.	0.0	0.3	0.0	0.4
Goldenwest St between McFadden Ave. and Edinger Ave.	0.0	0.4	0.0	0.4
Goldenwest St s/o Edinger Ave.	0.0	0.3	0.0	0.4
Edinger Ave. w/o Goldenwest St.	0.0	0.5	0.0	0.5
Beach Blvd n/o McFadden Ave.	0.0	0.4	0.0	0.4

Vehicle Type	% of ADT			
	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Roadway Traffic Noise Calculations
4 of 4



Project: Center Avenue Skate Park Project

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1570	1494	0	69.2	66.2	64.5	70.4	67.4	65.7
McFadden Ave. between Goldenwest St. and Gothard St.	35	1077	1305	0	68.4	65.4	63.7	69.6	66.6	64.9
McFadden Ave. between Gothard St. and Beach Blvd.	30	1760	1907	0	71.0	66.9	64.8	72.2	68.1	66.0
McFadden Ave. e/o Beach Blvd.	35	1730	2030	0	70.3	67.4	65.6	71.6	68.6	66.8
Gothard St. between McFadden Ave. and Center Ave.	35	992	1291	0	68.4	65.4	63.6	69.6	66.6	64.8
Existing With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1570	1494	0	69.2	66.2	64.5	70.4	67.4	65.7
McFadden Ave. between Goldenwest St. and Gothard St.	35	1077	1305	0	68.4	65.4	63.7	69.6	66.6	64.9
McFadden Ave. between Gothard St. and Beach Blvd.	30	1760	1907	0	71.0	66.9	64.8	72.2	68.1	66.0
McFadden Ave. e/o Beach Blvd.	35	1740	2030	0	70.3	67.4	65.6	71.6	68.6	66.8
Gothard St. between McFadden Ave. and Center Ave.	35	992	1291	0	68.4	65.4	63.6	69.6	66.6	64.8
Future With Project										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1610	1514	0	69.3	66.3	64.6	70.5	67.6	65.8
McFadden Ave. between Goldenwest St. and Gothard St.	35	1206	1345	0	68.5	65.6	63.8	69.8	66.8	65.0
McFadden Ave. between Gothard St. and Beach Blvd.	30	1874	2044	0	71.3	67.2	65.1	72.5	68.4	66.3
McFadden Ave. e/o Beach Blvd.	35	1907	2217	0	70.7	67.7	66.0	71.9	68.9	67.2
Gothard St. between McFadden Ave. and Center Ave.	35	1246	1484	0	69.0	66.0	64.2	70.2	67.2	65.5

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
McFadden Ave. w/o Goldenwest ST.	0.0	0.2	0.0	0.1
McFadden Ave. between Goldenwest St. and Gothard St.	0.0	0.2	0.0	0.2
McFadden Ave. between Gothard St. and Beach Blvd.	0.0	0.3	0.0	0.3
McFadden Ave. e/o Beach Blvd.	0.0	0.3	0.0	0.3
Gothard St. between McFadden Ave. and Center Ave.	0.0	0.6	0.0	0.6

Vehicle Type	% of ADT			Sub total
	Day	Eve	Night	
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Roadway Traffic Noise Calculations

1 of 4



Project: Center Avenue Skate Park Project

Weekend Special Event

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St n/o McFadden Ave.	35	3175	3689	34800	72.0	69.3	67.7	73.2	70.5	68.9
Goldenwest St between McFadden Ave. and Edinger Ave.	35	2910	3095	33100	71.7	69.1	67.5	73.0	70.3	68.7
Goldenwest St s/o Edinger Ave.	35	2642	2738	31400	71.5	68.9	67.2	72.7	70.1	68.4
Edinger Ave. w/o Goldenwest St.	35	1982	1939	23800	70.3	67.7	66.0	71.5	68.9	67.2
Edinger Ave. between Goldenwest St. and Gothard St.	35	5180	5445	25500	70.6	68.0	66.3	71.8	69.2	67.5
Future Without Special Event										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St n/o McFadden Ave.	35	3458	3976	38900	72.4	69.8	68.2	73.7	71.0	69.4
Goldenwest St between McFadden Ave. and Edinger Ave.	35	3201	3398	39100	72.5	69.8	68.2	73.7	71.0	69.4
Goldenwest St s/o Edinger Ave.	35	2951	2843	34000	71.9	69.2	67.6	73.1	70.4	68.8
Edinger Ave. w/o Goldenwest St.	35	2157	2209	25400	70.6	67.9	66.3	71.8	69.2	67.5
Edinger Ave. between Goldenwest St. and Gothard St.	35	5672	5958	26300	70.7	68.1	66.5	72.0	69.3	67.7
Future With Special Event										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Goldenwest St n/o McFadden Ave.	35	3458	3980	39300	72.5	69.8	68.2	73.7	71.1	69.4
Goldenwest St between McFadden Ave. and Edinger Ave.	35	3201	3398	39600	72.5	69.9	68.2	73.7	71.1	69.5
Goldenwest St s/o Edinger Ave.	35	2953	2851	34500	71.9	69.3	67.6	73.1	70.5	68.9
Edinger Ave. w/o Goldenwest St.	35	2159	2218	25600	70.6	68.0	66.3	71.8	69.2	67.6
Edinger Ave. between Goldenwest St. and Gothard St.	35	5672	5963	26400	70.8	68.1	66.5	72.0	69.3	67.7

CNEL

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
Goldenwest St n/o McFadden Ave.	0.1	0.6	0.0	0.5
Goldenwest St between McFadden Ave. and Edinger Ave.	0.1	0.8	0.0	0.7
Goldenwest St s/o Edinger Ave.	0.1	0.4	0.0	0.4
Edinger Ave. w/o Goldenwest St.	0.0	0.3	0.0	0.3
Edinger Ave. between Goldenwest St. and Gothard St.	0.0	0.1	0.0	0.2

Vehicle Type	% of ADT			
	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Roadway Traffic Noise Calculations
2 of 4



Project: Center Avenue Skate Park Project

Weekend Special Event

Existing										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1570	1494	11900	68.0	65.0	63.3	69.2	66.2	64.5
McFadden Ave. between Goldenwest St. and Gothard St.	35	1077	1305	16100	69.3	66.3	64.6	70.5	67.6	65.8
Gothard St. between McFadden Ave. and Center Avenue	35	1760	1907	10200	67.3	64.4	62.6	68.6	65.6	63.8
Gothard St. between Center Ave. and Edinger Ave.	35	1730	2030	12700	68.3	65.3	63.6	69.5	66.5	64.8
	0	35	992	1291	0	-	-	-	-	-
Future Without Special Event										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1610	1510	11800	68.0	65.0	63.2	69.2	66.2	64.5
McFadden Ave. between Goldenwest St. and Gothard St.	35	1200	1315	14100	68.8	65.8	64.0	70.0	67.0	65.2
Gothard St. between McFadden Ave. and Center Avenue	35	1874	2042	13000	68.4	65.4	63.7	69.6	66.6	64.9
Gothard St. between Center Ave. and Edinger Ave.	35	1907	2217	10700	67.6	64.6	62.8	68.8	65.8	64.0
	0	35	1244	1474	0	-	-	-	-	-
Future With Special Event										
Roadway/Segment	Speed MPH	Traffic Volumes			Leq			CNEL		
		AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
McFadden Ave. w/o Goldenwest ST.	35	1610	1514	12000	68.1	65.1	63.3	69.3	66.3	64.5
McFadden Ave. between Goldenwest St. and Gothard St.	35	1206	1345	14100	68.8	65.8	64.0	70.0	67.0	65.2
Gothard St. between McFadden Ave. and Center Avenue	35	1874	2044	13000	68.4	65.4	63.7	69.6	66.6	64.9
Gothard St. between Center Ave. and Edinger Ave.	35	1907	2217	10800	67.6	64.6	62.9	68.8	65.8	64.1
	0	35	1246	1484	0	-	-	-	-	-

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Roadway/Segment				
McFadden Ave. w/o Goldenwest ST.	0.1	0.1	0.1	0.1
McFadden Ave. between Goldenwest St. and Gothard St.	0.0	-0.6	0.0	-0.5
Gothard St. between McFadden Ave. and Center Avenue	0.0	1.0	0.0	1.0
Gothard St. between Center Ave. and Edinger Ave.	0.0	-0.7	0.0	-0.7
	0	-	-	-

Vehicle Type	% of ADT			Sub total
	Day	Eve	Night	
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

Appendix D-3

Construction Noise Calculations

Project: Center Avenue Skate Park

Construction Phase: *Excavation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Excavator	1	81		40%	35	0
Skid Steer Loader	1	79		40%	35	0
Tractor/loader/backhoe	1	80		25%	35	0
Rubber Tired Dozer	1	79		50%	35	0

Receptor: *R1*

Results:

Hourly Leq: 85

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Site Grading/Foundation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Grader	1	85		40%	35	0
Tractor/loader/backhoe	1	80		25%	35	0
Rubber Tired Dozer	1	79		50%	35	0

Receptor: *R1*

Results:

Hourly Leq: 86

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Crane	1	81		40%	35	0
Skid Steer Loader	1	79		40%	35	0
Forklift	1	75		10%	35	0
Other construction equipment	1	85		50%	35	0

Receptor: R1

Results:

Hourly Leq: 87

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park
Construction Phase: *Paving*
Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Cement and Mortar Mixer	1	79		40%	35	0
Paver	1	77		50%	35	0
Roller	1	80		20%	35	0

Receptor: *R1*
Results:
Hourly Leq: 82

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Excavation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Excavator	1	81		40%	150	5
Skid Steer Loader	1	79		40%	150	5
Tractor/loader/backhoe	1	80		25%	150	5
Rubber Tired Dozer	1	79		50%	150	5

Receptor: *R2*

Results:

Hourly Leq: *67*

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Site Grading/Foundation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Grader	1	85		40%	150	5
Tractor/loader/backhoe	1	80		25%	150	5
Rubber Tired Dozer	1	79		50%	150	5

Receptor: *R2*

Results:

Hourly Leq: 68

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Building Construction*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Crane	1	81		40%	150	5
Skid Steer Loader	1	79		40%	150	5
Forklift	1	75		10%	150	5
Other construction equipment	1	85		50%	150	5

Receptor: R2

Results:

Hourly Leq: 69

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park
Construction Phase: *Paving*
Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Cement and Mortar Mixer	1	79		40%	150	5
Paver	1	77		50%	150	5
Roller	1	80		20%	150	5

Receptor: *R2*
Results:
Hourly Leq: 64

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Excavation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Excavator	1	81		40%	200	0
Skid Steer Loader	1	79		40%	200	0
Tractor/loader/backhoe	1	80		25%	200	0
Rubber Tired Dozer	1	79		50%	200	0

Receptor: *R3*

Results:

Hourly Leq: 70

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Site Grading/Foundation*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Grader	1	85		40%	200	0
Tractor/loader/backhoe	1	80		25%	200	0
Rubber Tired Dozer	1	79		50%	200	0

Receptor: *R3*

Results:

Hourly Leq: 71

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park
Construction Phase: *Building Construction*
Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Crane	1	81		40%	200	0
Skid Steer Loader	1	79		40%	200	0
Forklift	1	75		10%	200	0
Other construction equipment	1	85		50%	200	0

Receptor: R3
Results:
Hourly Leq: 72

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Center Avenue Skate Park

Construction Phase: *Paving*

Equipment

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Cement and Mortar Mixer	1	79		40%	200	0
Paver	1	77		50%	200	0
Roller	1	80		20%	200	0

Receptor: *R3*

Results:

Hourly Leq: 67

Source for Ref. Noise Levels: FHWA, RCNM 2005