Appendices

Appendix L Noise Data

Appendices

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RCNM Construction Modeling

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Architectural Coating Residential 60.0 55.0 60.0

Equipment

Spec Actual Receptor Estimated

Impact Usage Lmax Lmax Distance Shielding

Description Device (%) (dBA) (dBA) (feet) (dBA)

Compressor (air) No 40 77.7 120.0 0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

				(,					(. ,		
	Calculated	d (dBA)	Day	Eve	ning	Nigł	nt	Day	Eve	ening	Niį	ght	
Equipment Lmax Leq	Ln	nax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lma	x Leo	4
Compressor (a N/A	ir) 70	0.1 66.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total N/A	70.1	66.1	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Asphalt/Concrete Demo Residential 60.0 55.0 60.0

Equipment

Spec Actual Receptor Estimated Impact Usage Lmax Lmax Distance Shielding Device (%) (dBA) (dBA) Description (feet) (dBA) 20 120.0 Concrete Saw No 89.6 0.0 0.0 81.7 120.0 Dozer No 40 Tractor No 40 84.0 120.0 0.0 79.1 Front End Loader No 40 120.0 0.0 Backhoe 77.6 120.0 0.0 No 40

Results

		Noise Lin	nits (dBA)	No	Noise Limit Exceedance (dBA)					
C	Calculated (dBA)		Evening	Night	Day Ever	ning Night				
Equipment Lmax Leq	Lmax Lec	ı Lmax	Leq Lmax	Leq Lmax	Leq Lmax	Leq Lmax Leq				
Concrete Saw N/A	82.0 75.0	N/A N	J/A N/A 1	N/A N/A	N/A N/A N	/A N/A N/A N/A				
Dozer N/A	74.1 70.1	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A				
Tractor N/A	76.4 72.4	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A				
Front End Loade N/A	er 71.5 67.	5 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A N/A				
Backhoe N/A	70.0 66.0	N/A N/A	A N/A N/A	A N/A N/	/A N/A N/A	N/A N/A N/A				
Total N/A	82.0 78.4	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A				

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Building Construction Residential 60.0 55.0 60.0

Equipment

		Spec A	Actual Rec	eptor Est	imated								
Impact Usage Lmax Lmax Distance Shielding													
Description	Device	e (%)	(dBA) (d	BA) (fe	et) (dBA)							
Crane	No	16	80.6	120.0	0.0								
Man Lift	No	20	74.7	120.0	0.0								
Man Lift	No	20	74.7	120.0	0.0								
Generator	No	50	80.6	120.0	0.0								
Welder / Torch	N	o 40	74.0	120.0	0.0								
Welder / Torch	N	o 40	74.0	120.0	0.0								
Welder / Torch	N	0 40	74.0	120.0	0.0								

Results

		Noise Limit	es (dBA)	Noise Limit Exceedance (dBA)					
	Calculated (dBA)	Day	•	Night Day	Evening	Night			
Equipment Lmax Leq				eq Lmax Leq					
Crane N/A	72.9 65.0	N/A N/A	N/A N/A	N/A N/A N	/A N/A N/A	N/A N/A			
Man Lift N/A	67.1 60.1	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A	N/A N/A			
Man Lift N/A	67.1 60.1	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A	N/A N/A			
Generator N/A	73.0 70.0	N/A N/A	N/A N/A	N/A N/A	N/A N/A N/A	A N/A N/A			
Welder / Torch N/A	n 66.4 62.4	N/A N/A	A N/A N/A	A N/A N/A	N/A N/A N	J/A N/A N/A			
Welder / Torch N/A	n 66.4 62.4	N/A N/A	A N/A N/A	A N/A N/A	N/A N/A N	J/A N/A N/A			
Welder / Torch N/A	n 66.4 62.4	N/A N/A	A N/A N/A	A N/A N/A	N/A N/A N	J/A N/A N/A			
Total N/A	73.0 73.1	N/A N/A	N/A N/A	N/A N/A N/	A N/A N/A	N/A N/A			

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Grading Residential 60.0 55.0 60.0

Equipment

Spec Actual Receptor Estimated Impact Usage Lmax Lmax Distance Shielding Device (%) (dBA) (dBA) Description (feet) (dBA) _____ Grader No 40 85.0 120.0 0.0 81.7 Dozer No 40 120.0 0.0 Tractor 40 84.0 120.0 0.0 No 79.1 Front End Loader No 40 120.0 0.0

Results

	-		Noi	Noise Limits (dBA)				Noise Limit Exceedance (dBA)						
	Calculate	ed (dBA) Da	 y	Even	ing	Night	 ;	Day	Eve	ning	Nigh	nt	
Equipment Lmax Leq	L	max L	eq L	max	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Grader N/A	77.4	73.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Dozer N/A	74.1	70.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor N/A	76.4	72.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Front End Lo N/A	ader	71.5 6	57.5 N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	
Tota N/A	al 77.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Paving Residential 60.0 55.0 60.0

Equipment

Imp	act U	-			-	r Estir Distance	nated Shielding
						(feet	
Drum Mixer	1	No	50	80	0.0	120.0	0.0
Paver	No	50		77.2	120	.0	0.0
Pavement Scarafi	er	No	20		89.5	120.0	0.0
Roller	No	20		80.0	120	.0	0.0
Roller	No	20		80.0	120	.0	0.0
Tractor	No	40	84.	0	120	0.0	0.0

Results

Noise Limits (dBA) Noise Limit Exceedance (dBA)

	Calculat	ed (dBA)) Da	y	Evening	Night	 t	Day	Eveni	ing	Nigh	t
Equipment Lmax Leq	I	 Lmax L	eq L	 max L	eq Lma	x Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drum Mixer	<i></i>	72.4 69.	.4 N/	/A N/	A N/A	N/A 1	N/A N	J/A N	J/A N/.	A N	/A N	'A N/A
N/A Paver N/A	69.6	66.6	N/A	N/A	N/A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Sca N/A	arafier	81.9 7	4.9	N/A N	J/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/.
Roller N/A	72.4	65.4	N/A	N/A	N/A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller N/A	72.4	65.4	N/A	N/A	N/A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A	76.4	72.4	N/A	N/A	N/A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tota N/A	al 81.9	78.4	N/A	N/A	N/A N/	A N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 01/10/2019 Case Description: COA-72

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Site Prep Residential 60.0 55.0 60.0

Equipment

Spec Actual Receptor Estimated Impact Usage Lmax Lmax Distance Shielding Description Device (%) (dBA) (dBA) (feet) (dBA) 85.0 120.0 Grader No 40 0.0 Scraper No 120.0 0.0 40 83.6 Tractor No 40 84.0 120.0 0.0

Results

				Noi	se Lin	nits (dB	Noise Limit Exceedance (dBA)							
		Calculated (dBA)		A) Da	Day Evening		ing	Night		Day	Evening		Nigh	t
Equipment Lmax L		L1	max l	Leq L	 max	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader N/A		77.4	73.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper N/A		76.0	72.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A		76.4	72.4	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	77.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Traffic Noise Data

Revised 2035 Traffic

Sogmont	Existing No Project	Existing Plus Project	Future No Project		Noise Increase	Cumulativ	Project Cumulative Contributio
Segment	Fioject	Project	Fioject	Project	IIICIEase	e Increase	11
Nohl Ranch Road	5,599	5,182	4,954	4,202	-0.3	-1.2	-0.7
Serrano Avenue	14,121	14,196	17,891	17,386	0.0	0.9	-0.1
Serrano Avenue	14,013	14,023	17,407	17,325	0.0	0.9	0.0
Carnegie Avenue	695	750	693	743	0.3	0.3	0.3
Calle Venado	424	479	422	453	0.5	0.3	0.3
Cannon Street	39,356	39,431	54,652	54,291	0.0	1.4	0.0
Cannon Street	34,268	34,343	49,564	49,203	0.0	1.6	0.0

Local Regulations

Print

Anaheim Municipal Code

Chapter 6.70 SOUND PRESSURE LEVELS

Sections:

6.70.010 Established.

6.70.020 Violations and penalties.

6.70.030 Enforcement.

6.70.010 ESTABLISHED.

Sound produced in excess of the sound pressure levels permitted herein are hereby determined to be objectionable and constitute an infringement upon the right and quiet enjoyment ofproperty in this City.

No person shall within the City create any sound radiated for extended periods from any premises which produces asound pressure level at any point on the property line in excess of sixty decibels (Re 0.0002 Microbar) read on the A-scale of a sound level meter. Readings shall be taken in accordance with the instrument manufacturer's instructions, using the slowest meter response.

The sound level measuring microphone shall be placed at any point on the property line, but not closer than three (3) feet from any wall and not less than three (3) feet above the ground, where the above listed maximum sound pressure level shall apply. At any point the measured level shall be the average of not less than three (3) readings taken at two (2) minute intervals. To have valid readings, the levels must be five (5) decibels or more above the levels prevailing at the same point when the source's ofthe alleged objectionable sound are not operating.

Sound pressure levels shall be measured with a sound level meter manufactured according to American Standard S1.4-1961 published by the American Standards Association, Inc., New York City, New York.

Traffic sounds sound created by emergencyactivities and sound created by governmental units or their contractors shall be exempt from the applications of this chapter. Sound created by construction or building repair of any premises within the City shall be exempt from the applications of this chapter during the hours of 7:00 a.m. to 7:00 p.m. Additional work hours may be permitted if deemed necessary by the Director of Public Works or Building Official. (Ord. 2526 § 1 (part); June 18, 1968; Ord. 3400 § 1; February 11, 1975: Ord. 6020 § 1; April 25, 2006.)

6.70.020 VIOLATIONS AND PENALTIES.

The first violation of this chapter by any person shall be punishable as an infraction in accordance with applicable provisions of the California Penal Code and the California Government Code. The second and all subsequent violations of said chapter committed by such person shall be punishable as a misdemeanor. (Ord. 5929 § 9; July 27, 2004.)

6.70.030 ENFORCEMENT.

The Code Enforcement Manager of the City of Anaheim shall enforce the provisions of this chapter. (Ord. 5812 § 25; June 11, 2002.)

18.40.090 SOUND ATTENUATION FOR RESIDENTIAL DEVELOPMENTS.

- .010 Applicability. Residential developments involving the construction of two (2) or more dwelling units, or residential subdivisions resulting in two (2) or more parcels, and located within six hundred (600) feet of any railroad, freeway, expressway, major arterial, primary arterial or secondary arterial, as designated by the Circulation Element of the General Plan, shall comply with the provisions of this section. The construction of an Accessory Dwelling Unit or senior second unit shall not constitute a residential development subject to the provisions of this section.
- .020 Study Required. A noise level analysis shall be performed for any new residential development or subdivision to determine the projected interior and exterior noise levels within the development. The study shall include mitigation measures that would be required to comply with applicable City noise standards, as identified in this section. The study shall be provided by the applicant, at its sole expense, to the City at the time of application for development of the residential development or subdivision.
- .030 Attenuation. Mitigation measures, without limitation, may include masonry walls, an earthen berm or a combination thereof. Masonry walls must comply with the requirements of Chapter 18.46 (Landscaping and Screening). The height of any proposed walls shall be determined by the approval authority based on the recommendation of a sound attenuation study prepared by a state-licensed acoustical engineer, unless a variance is granted by the approval authority, or City Council on appeal, in accordance with the procedures established in Chapter 18.60 (Common Procedures) for the processing of variances.
- .040 Single-Family Detached. Exterior noise within the private rear yard of any single family lot and/or within any common recreation areas, shall be attenuated to a maximum of sixty-five (65) dB CNEL. Interior noise levels shall be attenuated to a maximum of forty-five (45) dB CNEL, or to a level designated by the Uniform Building Code, as adopted by the City.
- .050 Single-Family Attached or Multiple Family. Exterior noise within common recreation areas of any single family attached or multiple family dwelling project shall be attenuated to a maximum of sixty-five (65) dB CNEL. Interior noise levels shall be attenuated to a maximum of forty-five (45) dB CNEL, or to a level designated by the Uniform Building Code, as adopted by the City.
- .060 Minor Deviations. Notwithstanding any provision of this Code to the contrary, the Planning Commission may grant a deviation from the requirements imposed by subsections .040 and .050 of this section pertaining to exterior noise levels in accordance with the procedures established in Chapter 18.60 (Common Procedures) for the processing of variances except that the findings set forth in Section 18.74.060 (Findings) of Chapter 18.74 (Variances) shall not be required and provided that before any such deviation is granted by the Planning Commission, the evidence presented shows that all of the following conditions exist:

- .0601 The deviation from prescribed levels does not pertain to interior noise levels;
- .0602 The deviation does not exceed five (5) dB CNEL above the prescribed levels for exterior noise; and
- .0603 Measures to attenuate noise to the prescribed levels would compromise or conflict with the aesthetic value of the project. (Ord. 6000 § 3; November 8, 2005: Ord. 6101 § 33; April 22, 2008: Ord. 6317 § 14; March 3, 2015: Ord. 6419 § 10; August 29, 2017.)