

Appendix J
Construction Noise Worksheet

Project: Paseo Norte Project

Construction Noise Impact on Sensitive Receptors



Parameters

Leq to L10 factor	3
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Construction Phase Equipment Type	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	At 50 Feet					At 400 Feet					
				Distance (ft)	Lmax	Leq	L10	Estimated Noise Shielding, dBA	Distance (ft)	Lmax	Leq	L10	Estimated Noise Shielding, dBA	
Site Preparation					88	84					71	67		
Dozer	1	82	40%	50	82	78	81	0	400	64	60	63	0	
Dozer	1	82	40%	200	70	66	69	0	550	61	57	60	0	
Dozer	1	82	40%	200	70	66	69	0	550	61	57	60	0	
Tractor	1	84	40%	50	84	80	83	0	400	66	62	65	0	
Tractor	1	84	40%	50	84	80	83	0	400	66	62	65	0	
Front End Loader	1	79	40%	400	61	57	60	0	750	55	51	54	0	
Backhoe	1	78	40%	400	60	56	59	0	750	54	50	53	0	
Grading/Excavation					88	84				71	67			
Grader	1	85	40%	50	85	81	84	0	400	67	63	66	0	
Excavator	1	81	40%	200	69	65	68	0	550	60	56	59	0	
Dozer	1	82	40%	200	70	66	69	0	550	61	57	60	0	
Tractor	1	84	40%	50	84	80	83	0	400	66	62	65	0	
Front End Loader	1	79	40%	400	61	57	60	0	750	55	51	54	0	
Backhoe	1	78	40%	400	60	56	59	0	750	54	50	53	0	
Building Construction					87	83				70	66			
Crane	1	81	16%	200	69	61	64	0	550	60	52	55	0	
Forklift	1	75	20%	400	57	50	53	0	750	51	44	47	0	
Forklift	1	75	20%	400	57	50	53	0	750	51	44	47	0	
Forklift	1	75	20%	400	57	50	53	0	750	51	44	47	0	
Generator	1	81	50%	50	81	78	81	0	400	63	60	63	0	
Tractor	1	84	40%	50	84	80	83	0	400	66	62	65	0	
Front End Loader	1	79	40%	50	79	75	78	0	400	61	57	60	0	
Backhoe	1	78	40%	200	66	62	65	0	550	57	53	56	0	
Welder	1	74	40%	200	62	58	61	0	550	53	49	52	0	
Paving					80	77				65	61			
Paver	1	77	50%	50	77	74	77	0	400	59	56	59	0	
Paver	1	77	50%	50	77	74	77	0	400	59	56	59	0	
Paver	1	77	50%	200	65	62	65	0	550	56	53	56	0	
Paver	1	77	50%	200	65	62	65	0	550	56	53	56	0	
Roller	1	80	20%	400	62	55	58	0	750	56	49	52	0	
Roller	1	80	20%	400	62	55	58	0	750	56	49	52	0	
Architectural Coating					78	74				60	56			
Compressor (air)	1	78	40%	50	78	74	77	0	400	60	56	59	0	

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005. Based on actual measured Lmax values.

