

Appendix F: Construction Noise

Report date: 3/31/2016

Case Description: Construction Condition (Week 14) Worst Case Scenario

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Res 1 (Julian St)	Residential	55	55	55

Description	Impact	Device	Usage(%)	Equipment			Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Excavator	No		40		80.7	270	0
Excavator	No		40		80.7	270	0
Front End Loader	No		40		79.1	270	0
Front End Loader	No		40		79.1	270	0
Front End Loader	No		40		79.1	270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0
Concrete Mixer Truck	No		40		78.8	270	0
Chain Saw	No		20		83.7	270	0
Drill Rig Truck	No		20		79.1	270	0
Excavator	No		40		80.7	270	0
Excavator	No		40		80.7	270	0
Compactor (ground)	No		20		83.2	270	0
Grader	No		40	85		270	0
All Other Equipment > 5 HP	No		50	85		270	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Excavator	66.1	62.1
Excavator	66.1	62.1
Front End Loader	64.5	60.5
Front End Loader	64.5	60.5
Front End Loader	64.5	60.5
All Other Equipment > 5 HP	70.4	67.3
All Other Equipment > 5 HP	70.4	67.3
All Other Equipment > 5 HP	70.4	67.3

All Other Equipment > 5 HP	70.4	67.3
All Other Equipment > 5 HP	70.4	67.3
All Other Equipment > 5 HP	70.4	67.3
All Other Equipment > 5 HP	70.4	67.3
Concrete Mixer Truck	64.2	60.2
Chain Saw	69.1	62.1
Drill Rig Truck	64.5	57.5
Excavator	66.1	62.1
Excavator	66.1	62.1
Compactor (ground)	68.6	61.6
Grader	70.4	66.4
All Other Equipment > 5 HP	70.4	67.3
Total	70.4	77.9

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Res 2 (Julian St)	Residential	55	55	55				
		Impact Device	Usage(%)					
Excavator		No	40		80.7	330	0	
Excavator		No	40		80.7	330	0	
Front End Loader		No	40		79.1	330	0	
Front End Loader		No	40		79.1	330	0	
Front End Loader		No	40		79.1	330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	
Concrete Mixer Truck		No	40		78.8	330	0	
Chain Saw		No	20		83.7	330	0	
Drill Rig Truck		No	20		79.1	330	0	
Excavator		No	40		80.7	330	0	
Excavator		No	40		80.7	330	0	
Compactor (ground)		No	20		83.2	330	0	
Grader		No	40	85		330	0	
All Other Equipment > 5 HP		No	50	85		330	0	

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	64.3	60.3
Excavator	64.3	60.3
Front End Loader	62.7	58.7
Front End Loader	62.7	58.7
Front End Loader	62.7	58.7
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
All Other Equipment > 5 HP	68.6	65.6
Concrete Mixer Truck	62.4	58.4
Chain Saw	67.3	60.3
Drill Rig Truck	62.7	55.7
Excavator	64.3	60.3
Excavator	64.3	60.3
Compactor (ground)	66.8	59.8
Grader	68.6	64.6
All Other Equipment > 5 HP	68.6	65.6
Total	68.6	76.2

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment				
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	
Res 3 (Julian St)	Residential	55	55	55					
					Impact Device	Usage(%)			
Excavator		No	40		No	40	80.7	370	0
Excavator		No	40		No	40	80.7	370	0
Front End Loader		No	40		No	40	79.1	370	0
Front End Loader		No	40		No	40	79.1	370	0
Front End Loader		No	40		No	40	79.1	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
All Other Equipment > 5 HP		No	50	85	No	50	85	370	0
Concrete Mixer Truck		No	40		No	40	78.8	370	0

Chain Saw	No	20	83.7	370	0
Drill Rig Truck	No	20	79.1	370	0
Excavator	No	40	80.7	370	0
Excavator	No	40	80.7	370	0
Compactor (ground)	No	20	83.2	370	0
Grader	No	40	85	370	0
All Other Equipment > 5 HP	No	50	85	370	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	63.3	59.3
Excavator	63.3	59.3
Front End Loader	61.7	57.7
Front End Loader	61.7	57.7
Front End Loader	61.7	57.7
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
All Other Equipment > 5 HP	67.6	64.6
Concrete Mixer Truck	61.4	57.4
Chain Saw	66.3	59.3
Drill Rig Truck	61.7	54.7
Excavator	63.3	59.3
Excavator	63.3	59.3
Compactor (ground)	65.8	58.8
Grader	67.6	63.6
All Other Equipment > 5 HP	67.6	64.6
Total	67.6	75.2

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
	Residential	55	55	55				
Res 4 (Montgomery St)								
		Impact Device	Usage(%)					
Excavator		No	40		80.7	400		0
Excavator		No	40		80.7	400		0
Front End Loader		No	40		79.1	400		0

Front End Loader	No	40		79.1	400	0
Front End Loader	No	40		79.1	400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0
Concrete Mixer Truck	No	40		78.8	400	0
Chain Saw	No	20		83.7	400	0
Drill Rig Truck	No	20		79.1	400	0
Excavator	No	40		80.7	400	0
Excavator	No	40		80.7	400	0
Compactor (ground)	No	20		83.2	400	0
Grader	No	40	85		400	0
All Other Equipment > 5 HP	No	50	85		400	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	62.6	58.7
Excavator	62.6	58.7
Front End Loader	61	57.1
Front End Loader	61	57.1
Front End Loader	61	57.1
All Other Equipment > 5 HP	66.9	63.9
All Other Equipment > 5 HP	66.9	63.9
All Other Equipment > 5 HP	66.9	63.9
All Other Equipment > 5 HP	66.9	63.9
All Other Equipment > 5 HP	66.9	63.9
All Other Equipment > 5 HP	66.9	63.9
Concrete Mixer Truck	60.7	56.8
Chain Saw	65.6	58.6
Drill Rig Truck	61	54
Excavator	62.6	58.7
Excavator	62.6	58.7
Compactor (ground)	65.1	58.1
Grader	66.9	63
All Other Equipment > 5 HP	66.9	63.9
Total	66.9	74.5

*Calculated Lmax is the Loudest value.

---- Receptor #5 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
	Residential	55.5	55	55

Res 5 (Alameda Bdlg 2)

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	480	0
Excavator	No	40		80.7	480	0
Front End Loader	No	40		79.1	480	0
Front End Loader	No	40		79.1	480	0
Front End Loader	No	40		79.1	480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0
Concrete Mixer Truck	No	40		78.8	480	0
Chain Saw	No	20		83.7	480	0
Drill Rig Truck	No	20		79.1	480	0
Excavator	No	40		80.7	480	0
Excavator	No	40		80.7	480	0
Compactor (ground)	No	20		83.2	480	0
Grader	No	40	85		480	0
All Other Equipment > 5 HP	No	50	85		480	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	61.1	57.1
Excavator	61.1	57.1
Front End Loader	59.5	55.5
Front End Loader	59.5	55.5
Front End Loader	59.5	55.5
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
All Other Equipment > 5 HP	65.4	62.3
Concrete Mixer Truck	59.2	55.2
Chain Saw	64.1	57.1
Drill Rig Truck	59.5	52.5

Excavator	61.1	57.1
Excavator	61.1	57.1
Compactor (ground)	63.6	56.6
Grader	65.4	61.4
All Other Equipment > 5 HP	65.4	62.3
Total	65.4	72.9

*Calculated Lmax is the Loudest value.

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Res 6 (Plant 51 residential development)	Residential	55	55	55				
Description		Device	Usage(%)					
Excavator		No	40		80.7	300	0	
Excavator		No	40		80.7	300	0	
Front End Loader		No	40		79.1	300	0	
Front End Loader		No	40		79.1	300	0	
Front End Loader		No	40		79.1	300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	
Concrete Mixer Truck		No	40		78.8	300	0	
Chain Saw		No	20		83.7	300	0	
Drill Rig Truck		No	20		79.1	300	0	
Excavator		No	40		80.7	300	0	
Excavator		No	40		80.7	300	0	
Compactor (ground)		No	20		83.2	300	0	
Grader		No	40	85		300	0	
All Other Equipment > 5 HP		No	50	85		300	0	

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Excavator	65.1	61.2
Excavator	65.1	61.2
Front End Loader	63.5	59.6
Front End Loader	63.5	59.6
Front End Loader	63.5	59.6

All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
All Other Equipment > 5 HP	69.4	66.4
Concrete Mixer Truck	63.2	59.3
Chain Saw	68.1	61.1
Drill Rig Truck	63.5	56.5
Excavator	65.1	61.2
Excavator	65.1	61.2
Compactor (ground)	67.6	60.6
Grader	69.4	65.5
All Other Equipment > 5 HP	69.4	66.4
Total	69.4	77.0

*Calculated Lmax is the Loudest value.

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Res 7 (Avalon mix used)	Residential	55	55	55				
		Impact Device	Usage(%)					
Excavator		No	40		80.7	470	0	
Excavator		No	40		80.7	470	0	
Front End Loader		No	40		79.1	470	0	
Front End Loader		No	40		79.1	470	0	
Front End Loader		No	40		79.1	470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	
Concrete Mixer Truck		No	40		78.8	470	0	
Chain Saw		No	20		83.7	470	0	
Drill Rig Truck		No	20		79.1	470	0	
Excavator		No	40		80.7	470	0	
Excavator		No	40		80.7	470	0	
Compactor (ground)		No	20		83.2	470	0	
Grader		No	40	85		470	0	
All Other Equipment > 5 HP		No	50	85		470	0	

All Other Equipment > 5 HP	No	50	85	225	0
All Other Equipment > 5 HP	No	50	85	225	0
Concrete Mixer Truck	No	40	78.8	225	0
Chain Saw	No	20	83.7	225	0
Drill Rig Truck	No	20	79.1	225	0
Excavator	No	40	80.7	225	0
Excavator	No	40	80.7	225	0
Compactor (ground)	No	20	83.2	225	0
Grader	No	40	85	225	0
All Other Equipment > 5 HP	No	50	85	225	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	67.6	63.7
Excavator	67.6	63.7
Front End Loader	66	62.1
Front End Loader	66	62.1
Front End Loader	66	62.1
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
All Other Equipment > 5 HP	71.9	68.9
Concrete Mixer Truck	65.7	61.8
Chain Saw	70.6	63.6
Drill Rig Truck	66	59
Excavator	67.6	63.7
Excavator	67.6	63.7
Compactor (ground)	70.1	63.1
Grader	71.9	68
All Other Equipment > 5 HP	71.9	68.9
Total	71.9	79.5

*Calculated Lmax is the Loudest value.

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec	Actual	Receptor	Estimated
R9 (residential)	Residential	55	55	55	Lmax	Lmax	Distance	Shielding
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	

Excavator	No	40		80.7	240	0
Excavator	No	40		80.7	240	0
Front End Loader	No	40		79.1	240	0
Front End Loader	No	40		79.1	240	0
Front End Loader	No	40		79.1	240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0
Concrete Mixer Truck	No	40		78.8	240	0
Chain Saw	No	20		83.7	240	0
Drill Rig Truck	No	20		79.1	240	0
Excavator	No	40		80.7	240	0
Excavator	No	40		80.7	240	0
Compactor (ground)	No	20		83.2	240	0
Grader	No	40	85		240	0
All Other Equipment > 5 HP	No	50	85		240	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	67.1	63.1
Excavator	67.1	63.1
Front End Loader	65.5	61.5
Front End Loader	65.5	61.5
Front End Loader	65.5	61.5
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
All Other Equipment > 5 HP	71.4	68.4
Concrete Mixer Truck	65.2	61.2
Chain Saw	70.1	63.1
Drill Rig Truck	65.5	58.5
Excavator	67.1	63.1
Excavator	67.1	63.1
Compactor (ground)	69.6	62.6
Grader	71.4	67.4
All Other Equipment > 5 HP	71.4	68.4
Total	71.4	79

*Calculated Lmax is the Loudest value.

Concrete Mixer Truck	70.5	66.5
Chain Saw	75.4	68.4
Drill Rig Truck	70.8	63.8
Excavator	72.4	68.4
Excavator	72.4	68.4
Compactor (ground)	74.9	67.9
Grader	76.7	72.7
All Other Equipment > 5 HP	76.7	73.7
Total	76.7	84.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),\

Report date: 2/12/2016

Case Description: Construction Condition (Week 14) Worst Case Scenario

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment		
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Com 1 (Sillicom Valley Telecom)	Commercial	55	55	55			
Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)		
Excavator	No	40	40	80.7	50		
Excavator	No	40	40	80.7	50		
Front End Loader	No	40	40	79.1	50		
Front End Loader	No	40	40	79.1	50		
Front End Loader	No	40	40	79.1	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		
Concrete Mixer Truck	No	40	40	78.8	50		
Chain Saw	No	20	20	83.7	50		
Drill Rig Truck	No	20	20	79.1	50		
Excavator	No	40	40	80.7	50		
Excavator	No	40	40	80.7	50		
Compactor (ground)	No	20	20	83.2	50		
Grader	No	40	40	85	50		
All Other Equipment > 5 HP	No	50	50	85	50		

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	80.7	76.7
Excavator	80.7	76.7
Front End Loader	79.1	75.1
Front End Loader	79.1	75.1
Front End Loader	79.1	75.1
All Other Equipment > 5 HP	85	82
All Other Equipment > 5 HP	85	82
All Other Equipment > 5 HP	85	82

All Other Equipment > 5 HP	85	82
All Other Equipment > 5 HP	85	82
All Other Equipment > 5 HP	85	82
All Other Equipment > 5 HP	85	82
Concrete Mixer Truck	78.8	74.8
Chain Saw	83.7	76.7
Drill Rig Truck	79.1	72.1
Excavator	80.7	76.7
Excavator	80.7	76.7
Compactor (ground)	83.2	76.2
Grader	85	81
All Other Equipment > 5 HP	85	82
Total	85	92.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment		
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
	Commercial	55.5	55	55			
Com 2 (Silicon Valley Judo School and Fencing Center)							
		Impact Device	Usage(%)				
Excavator		No	40		80.7	70	
Excavator		No	40		80.7	70	
Front End Loader		No	40		79.1	70	
Front End Loader		No	40		79.1	70	
Front End Loader		No	40		79.1	70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
All Other Equipment > 5 HP		No	50	85		70	
Concrete Mixer Truck		No	40		78.8	70	
Chain Saw		No	20		83.7	70	
Drill Rig Truck		No	20		79.1	70	
Excavator		No	40		80.7	70	
Excavator		No	40		80.7	70	
Compactor (ground)		No	20		83.2	70	
Grader		No	40	85		70	
All Other Equipment > 5 HP		No	50	85		70	

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	77.8	73.8
Excavator	77.8	73.8
Front End Loader	76.2	72.2
Front End Loader	76.2	72.2
Front End Loader	76.2	72.2
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
All Other Equipment > 5 HP	82.1	79.1
Concrete Mixer Truck	75.9	71.9
Chain Saw	80.8	73.8
Drill Rig Truck	76.2	69.2
Excavator	77.8	73.8
Excavator	77.8	73.8
Compactor (ground)	80.3	73.3
Grader	82.1	78.1
All Other Equipment > 5 HP	82.1	79.1
Total	82.1	89.7

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Park 1 (Theodore Lenzen Park)	Residential	55	55	55

Description	Device	Impact	Equipment		Receptor Distance (feet)	
			Usage(%)	Spec Lmax (dBA)		Actual Lmax (dBA)
Excavator	No		40		80.7	700
Excavator	No		40		80.7	700
Front End Loader	No		40		79.1	700
Front End Loader	No		40		79.1	700
Front End Loader	No		40		79.1	700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
All Other Equipment > 5 HP	No		50	85		700
Concrete Mixer Truck	No		40		78.8	700

Chain Saw	No	20	83.7	700
Drill Rig Truck	No	20	79.1	700
Excavator	No	40	80.7	700
Excavator	No	40	80.7	700
Compactor (ground)	No	20	83.2	700
Grader	No	40	85	700
All Other Equipment > 5 HP	No	50	85	700

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	57.8	53.8
Excavator	57.8	53.8
Front End Loader	56.2	52.2
Front End Loader	56.2	52.2
Front End Loader	56.2	52.2
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
All Other Equipment > 5 HP	62.1	59.1
Concrete Mixer Truck	55.9	51.9
Chain Saw	60.8	53.8
Drill Rig Truck	56.2	49.2
Excavator	57.8	53.8
Excavator	57.8	53.8
Compactor (ground)	60.3	53.3
Grader	62.1	58.1
All Other Equipment > 5 HP	62.1	59.1
Total	62.1	69.7

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)			
		Daytime	Evening	Night	
	Residential	55	55	55	
Park 2 (Cahill Park)					
Description	Device	Impact	Equipment		
			Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)
Excavator	No		40	80.7	800
Excavator	No		40	80.7	800
Front End Loader	No		40	79.1	800

Front End Loader	No	40	79.1	800
Front End Loader	No	40	79.1	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
All Other Equipment > 5 HP	No	50	85	800
Concrete Mixer Truck	No	40	78.8	800
Chain Saw	No	20	83.7	800
Drill Rig Truck	No	20	79.1	800
Excavator	No	40	80.7	800
Excavator	No	40	80.7	800
Compactor (ground)	No	20	83.2	800
Grader	No	40	85	800
All Other Equipment > 5 HP	No	50	85	800

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	56.6	52.6
Excavator	56.6	52.6
Front End Loader	55	51
Front End Loader	55	51
Front End Loader	55	51
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
All Other Equipment > 5 HP	60.9	57.9
Concrete Mixer Truck	54.7	50.7
Chain Saw	59.6	52.6
Drill Rig Truck	55	48
Excavator	56.6	52.6
Excavator	56.6	52.6
Compactor (ground)	59.1	52.1
Grader	60.9	56.9
All Other Equipment > 5 HP	60.9	57.9
Total	60.9	68.5

*Calculated Lmax is the Loudest value.