

## **APPENDIX E – CONSTRUCTION NOISE WORKSHEETS**



Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 04/19/2021  
 Case Description: Future Street SFR

\*\*\*\* Receptor #1 \*\*\*\*

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential 1	Residential	45.9	40.0	40.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe 2020	No	40		69.4	40.0	0.0
Excavator 2020	No	40		72.9	31.7	0.0
Concrete Saw	No	20		89.6	55.0	0.0
Skid Steer Loader	No	50		74.4	35.0	0.0
Skid Steer Loader	No	50		74.4	20.0	0.0
Dump Truck	No	40		76.5	20.0	0.0
Dump Truck	No	40		76.5	20.0	0.0
Dump Truck	No	40		76.5	20.0	0.0
Dump Truck	No	40		76.5	20.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		
			Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe 2020	N/A	N/A	71.3	67.4	N/A	N/A	N/A	N/A	N/A
Excavator 2020	N/A	N/A	76.9	72.9	N/A	N/A	N/A	N/A	N/A
Concrete Saw	N/A	N/A	88.8	81.8	N/A	N/A	N/A	N/A	N/A



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			Evening	Night
Residential 1	Residential	45.9	40.0	40.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator 2020	No	40		72.9	31.7	0.0
Concrete Saw	No	20		89.6	55.0	0.0
Skid Steer Loader	No	50		74.4	35.0	0.0
Concrete Mixer Truck	No	40		78.8	20.0	0.0
Concrete Pump Truck	No	20		81.4	20.0	0.0
Crane (Link Belt) 2020	No	16		68.7	20.0	0.0
Front End Loader	No	40		79.1	55.0	0.0
Drill Rig Truck	No	20		79.1	40.0	0.0
Front End Loader	No	40		79.1	40.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Evening	Evening	
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Excavator 2020	N/A	N/A	76.9	72.9	N/A	N/A	N/A	N/A	N/A
Concrete Saw	N/A	N/A	88.8	81.8	N/A	N/A	N/A	N/A	N/A
Skid Steer Loader	N/A	N/A	77.5	74.5	N/A	N/A	N/A	N/A	N/A



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			Evening	Night
Residential 1	Residential	45.9	40.0	40.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	55.0	0.0
Skid Steer Loader	No	50		74.4	35.0	0.0
Crane (Link Belt) 2020	No	16		68.7	20.0	0.0
Front End Loader	No	40		79.1	55.0	0.0
Front End Loader	No	40		79.1	40.0	0.0
Chain Saw	No	20		83.7	40.0	0.0
Backhoe 2020	No	40		69.4	20.0	0.0
Backhoe 2020	No	40		69.4	20.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	N/A	N/A	88.8	81.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Skid Steer Loader	N/A	N/A	77.5	74.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane (Link Belt) 2020	N/A	N/A	76.7	68.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	78.3	74.3	N/A	N/A	N/A	N/A	N/A





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			Evening	Night
Residential	Residential	45.9	40.0	40.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	40.0	0.0
Concrete Pump Truck	No	20		81.4	40.0	0.0
Concrete Mixer Truck	No	40		78.8	20.0	0.0
Concrete Pump Truck	No	20		81.4	20.0	0.0
Backhoe 2020	No	40		69.4	30.0	0.0
Cylinder Roller 2020	No	20		77.8	40.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Day		Calculated (dBA) Evening		Day Night		Evening		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck	N/A	N/A	80.7	76.8	N/A	N/A	N/A	N/A	N/A
Concrete Pump Truck	N/A	N/A	83.3	76.3	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	N/A	N/A	86.8	82.8	N/A	N/A	N/A	N/A	N/A
Concrete Pump Truck	N/A	N/A	89.4	82.4	N/A	N/A	N/A	N/A	N/A
Backhoe 2020	N/A	N/A	73.8	69.9	N/A	N/A	N/A	N/A	N/A



