

# Appendix B

## Noise

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## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 5/23/2024

Case Description: Construction

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Land Use: Ranch House Chapel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Backhoe	No	40		77.6	1584
Auger Drill Rig	No	20		84.4	1584
Compactor (ground)	No	20		83.2	1584
Compressor (air)	No	40		77.7	1584
Crane	No	16		80.6	1584
Concrete Mixer Truck	No	40		78.8	1584
Dozer	No	40		81.7	1584
Excavator	No	40		80.7	1584
Dump Truck	No	40		76.5	1584
Flat Bed Truck	No	40		74.3	1584
Generator	No	50		80.6	1584
Tractor	No	40	84		1584
Welder / Torch	No	40		74	1584

### Results

#### Calculated (dBA)

Equipment	*Lmax	Leq
Backhoe	47.5	43.6
Auger Drill Rig	54.3	47.4
Compactor (ground)	53.2	46.2
Compressor (air)	47.7	43.7
Crane	50.5	42.6
Concrete Mixer Truck	48.8	44.8
Dozer	51.7	47.7
Excavator	50.7	46.7
Dump Truck	46.4	42.5
Flat Bed Truck	44.2	40.3
Generator	50.6	47.6
Tractor	54	50
Welder / Torch	44	40
<b>Total</b>	<b>54.3</b>	<b>56.9</b>

\*Calculated Lmax is the Loudest value.