

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 12/2/2020
Case Description: Demolition

Description Affected Land Use
 Demolition Hotel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete/Industrial Saws	No	20		89.6	710
Rubber Tired Dozers	No	40		81.7	710
Tractors/Loaders/Backhoes	No	40	84		710
Tractors/Loaders/Backhoes	No	40	84		710

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete/Industrial Saws	66.5	59.5
Rubber Tired Dozers	58.6	54.6
Tractors/Loaders/Backhoes	61	57
Tractors/Loaders/Backhoes	61	57
Total	66.5	63.4

*Calculated Lmax is the Loudest value.

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Report date: 12/2/2020
Case Description: Site Preparation

Description Affected Land Use
 Site Preparation Hotel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Grader	No	40	85		710
Tractors/Loaders/Backhoes	No	40	84		710

Calculated (dBA)

Equipment	*Lmax	Leq
Grader	62	58
Tractors/Loaders/Backhoes	61	57
Total	62	60.5

*Calculated Lmax is the Loudest value.

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Report date: 12/2/2020
Case Description: Grading

Description **Affected Land Use**
 Grading Hotel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete Saw	No	20		89.6	710
Dozer	No	40		81.7	710
Tractor	No	40	84		710
Tractor	No	40	84		710

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	66.5	59.5
Dozer	58.6	54.6
Tractor	61	57
Tractor	61	57
Total	66.5	63.4

*Calculated Lmax is the Loudest value.

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Report date: 12/2/2020
Case Description: Paving

Description Paving
Affected Land Use Hotel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete Mixer Truck	No	40		78.8	710
Concrete Mixer Truck	No	40		78.8	710
Concrete Mixer Truck	No	40		78.8	710
Concrete Mixer Truck	No	40		78.8	710
Paver	No	50		77.2	710
Roller	No	20		80	710
Tractor	No	40	84		710

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	55.8	51.8
Concrete Mixer Truck	55.8	51.8
Concrete Mixer Truck	55.8	51.8
Concrete Mixer Truck	55.8	51.8
Paver	54.2	51.2
Roller	57	50
Tractor	61	57
Total	61	61.2

*Calculated Lmax is the Loudest value.

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Report date: 12/2/2020
Case Description: Architectural Coating

Description **Affected Land Use**
 Architectural Coating Hotel

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Compressor (air)	No	40		77.7	710

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	54.6	50.6
Total	54.6	50.6

*Calculated Lmax is the Loudest value.