

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2021  
 Case Description: Site Preparation

Description Affected Land Use  
 Site Preparation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Grader	No	40	85		400
Tractors/Loaders/Backhoes	No	40	84		400

Calculated (dBA)

Equipment	*Lmax	Leq
Grader	66.9	63
Tractors/Loaders/Backhoes	65.9	62
<b>Total</b>	<b>66.9</b>	<b>65.5</b>

\*Calculated Lmax is the Loudest value.

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

**Report date:** 11/5/2021  
**Case Description:** Excavation & Trenching

**Description**                      **Affected Land Use**  
 Excavation & Trenching      Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Trenchers	No	40		80.7	400
Excavator	No	40		80.7	400
Grader	No	40	85		400
Rubber Tired Dozers	No	40		81.7	400
Tractors/Loaders/Backhoes	No	40	84		400
Tractors/Loaders/Backhoes	No	40	84		400

Calculated (dBA)

Equipment	*Lmax	Leq
Trenchers	62.6	58.7
Excavator	62.6	58.7
Grader	66.9	63
Rubber Tired Dozers	63.6	59.6
Tractors/Loaders/Backhoes	65.9	62
Tractors/Loaders/Backhoes	65.9	62
<b>Total</b>	<b>66.9</b>	<b>68.8</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2021  
 Case Description: Pipe Fittings & Instillation

Description Affected Land Use  
 Pipe Fittings & Instillation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Crane	No	16		80.6	400
Forklifts	No	40		83.4	400
Forklifts	No	40		83.4	400
Tractors/Loaders/Backhoes	No	40	84		400
Tractors/Loaders/Backhoes	No	40	84		400

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	62.5	54.5
Forklifts	65.3	61.4
Forklifts	65.3	61.4
Tractors/Loaders/Backhoes	65.9	62
Tractors/Loaders/Backhoes	65.9	62
<b>Total</b>	<b>65.9</b>	<b>67.9</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2021  
 Case Description: Backfill & Paving

Description Affected Land Use  
 Backfill & Paving Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Cement and Mortar Mixers	No	40		78.8	400
Cement and Mortar Mixers	No	40		78.8	400
Paver	No	50		77.2	400
Roller	No	20		80	400
Dumpers/Tenders	No	40		76.5	400
Tractors/Loaders/Backhoes	No	40	84		400

Calculated (dBA)

Equipment	*Lmax	Leq
Cement and Mortar Mixers	60.7	56.8
Cement and Mortar Mixers	60.7	56.8
Paver	59.2	56.1
Roller	61.9	54.9
Dumpers/Tenders	58.4	54.4
Tractors/Loaders/Backhoes	65.9	62
<b>Total</b>	<b>65.9</b>	<b>65.5</b>

\*Calculated Lmax is the Loudest value.