

## **EXISTING TRAFFIC NOISE MODELING OUTPUTS**

## TRAFFIC NOISE LEVELS

**Project Number:** 2021-055.088

**Project Name:** Roseton Plant New Tank & Booster Station

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.

Analysis Scenario(s): Existing

Source of Traffic Volumes: General Plan EIR

Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:   X  

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

### Traffic Noise Levels

Analysis Condition	Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor <sup>1</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
											Medium Trucks	Heavy Trucks		
Analysis Condition	Artesia Boulevard	Residential	4	0	0	30,000	40	240	0	0	1.8%	0.7%	0.0	64.2

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

**PROJECT CONSTRUCTION NOISE MODELING  
OUTPUTS**

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/4/2022  
 Case Description: Demolition

Description Affected Land Use  
 Demolition Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Utility Flat Bed 1 Ton Truck	No	40		74.3	67
Skid Steer Loader	No	40		79.1	67
Tractor/Loader/Backhoe	No	40	84		67

Calculated (dBA)

Equipment	*Lmax	Leq
Utility Flat Bed 1 Ton Truck	71.7	67.7
Skid Steer Loader	76.6	72.6
Tractor/Loader/Backhoe	81.5	77.5
<b>Total</b>	<b>81.5</b>	<b>79</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/4/2022  
 Case Description: Site Preparation

Description Affected Land Use  
 Demolition Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Utility Flat Bed 1 Ton Truck	No	40		74.3	67
Skid Steer Loader	No	40		79.1	67
Tractor/Loader/Backhoe	No	40	84		67

Calculated (dBA)

Equipment	*Lmax	Leq
Utility Flat Bed 1 Ton Truck	71.7	67.7
Skid Steer Loader	76.6	72.6
Tractor/Loader/Backhoe	81.5	77.5
<b>Total</b>	<b>81.5</b>	<b>79</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/4/2022  
 Case Description: Grading

Description Affected Land Use  
 Demolition Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Utility Flat Bed 1 Ton Truck	No	40		74.3	67
Skid Steer Loader	No	40		79.1	67
Tractor/Loader/Backhoe	No	40	84		67

Calculated (dBA)

Equipment	*Lmax	Leq
Utility Flat Bed 1 Ton Truck	71.7	67.7
Skid Steer Loader	76.6	72.6
Tractor/Loader/Backhoe	81.5	77.5
<b>Total</b>	<b>81.5</b>	<b>79</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/4/2022  
 Case Description: Construction

Description Affected Land Use  
 Construction Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete/Industrial Saws	No	20		89.6	67
Crane	No	16		80.6	67
Welding Utility 1 Ton Truck	No	40		74	67
Welding Utility 1 Ton Truck	No	40		74	67
Rough Terrain Forklifts	No	40		83.4	67
Skid Steer Loaders	No	40		79.1	67
Tractors/Loaders/Backhoes	No	40	84		67

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete/Industrial Saws	87	80
Crane	78	70
Welding Utility 1 Ton Truck	71.5	67.5
Welding Utility 1 Ton Truck	71.5	67.5
Rough Terrain Forklifts	80.9	76.9
Skid Steer Loaders	76.6	72.6
Tractors/Loaders/Backhoes	81.5	77.5
<b>Total</b>	<b>87</b>	<b>83.9</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/4/2022  
 Case Description: Painting

Description Affected Land Use  
 Painting Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete/Industrial Saws	No	20		89.6	67
Rough Terrain Forklifts	No	40		83.4	67
Skid Steer Loaders	No	40		79.1	67
Tractors/Loaders/Backhoes	No	40	84		67

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete/Industrial Saws	87	80
Rough Terrain Forklifts	80.9	76.9
Skid Steer Loaders	76.6	72.6
Tractors/Loaders/Backhoes	81.5	77.5
<b>Total</b>	<b>87</b>	<b>83.5</b>

\*Calculated Lmax is the Loudest value.