

Appendix E

Construction Noise Worksheets

Pipelines - Site Preparation
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
 Case Description: Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences (N Montgomery)	Residential	57.2	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		30.0	0.0
Backhoe	No	40		77.6	30.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Lmax	Leq	Leq		Lmax	Leq	Lmax	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	89.4	85.5	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	82.0	78.0	N/A	N/A	N/A	N/A	N/A
		Total	89.4	86.2	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

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Mati Iija Jr High/Ojai Valley School	Commercial	58.3	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Pipelines - Site Preparation

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night		Calculated (dBA)			Day Night		Evening		
		Day	Evening						
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	N/A	N/A	85.0	81.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	77.6	73.6	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	Total	85.0	81.7	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

Pipeline - Trenching
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
 Case Description: Pipeline - Trenching

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences (N Montgomery)	Residential	57.2	45.0	45.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	30.0	0.0
Backhoe	No	40		77.6	30.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)				Day Night	Evening		
		Evening		Night			Evening		Lmax
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Excavator	N/A	N/A	85.1	81.2	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	82.0	78.0	N/A	N/A	N/A	N/A	N/A
		Total	85.1	82.9	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

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Mati Iija Jr High/Ojai Valley School	Commercial	58.3	45.0	45.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Pipeli nes - Trenchi ng

Noi se Li mi t Exceedance (dBA)

Noi se Li mi ts (dBA)

Ni ght		Cal cul ated (dBA)			Day Ni ght		Eveni ng		
		Day	Eveni ng						
Equi pment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	N/A	N/A	80. 7	76. 7	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	77. 6	73. 6	N/A	N/A	N/A	N/A	N/A
		Total	80. 7	78. 4	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pipelines - Pipeline Installation
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
 Case Description: Pipelines - Pipeline Installation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences (N Montgomery)	Residential	57.2	45.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	30.0	0.0
Man Lift	No	20		74.7	30.0	0.0
Man Lift	No	20		74.7	30.0	0.0
Compactor (ground)	No	20		83.2	30.0	0.0
Backhoe	No	40		77.6	30.0	0.0
Backhoe	No	40		77.6	30.0	0.0
Dozer	No	40		81.7	30.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)				Day		Evening		
	Leq	Lmax	Leq	Lmax	Day	Night	Lmax	Leq	Lmax
Crane									
N/A	N/A	N/A	85.0	77.0	N/A	N/A	N/A	N/A	N/A
Man Lift									
N/A	N/A	N/A	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Man Lift									
N/A	N/A	N/A	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Compactor (ground)									
N/A	N/A	N/A	87.7	80.7	N/A	N/A	N/A	N/A	N/A
Backhoe									
N/A	N/A	N/A	82.0	78.0	N/A	N/A	N/A	N/A	N/A
Backhoe									
N/A	N/A	N/A	82.0	78.0	N/A	N/A	N/A	N/A	N/A
Dozer									
N/A	N/A	N/A	86.1	82.1	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
N/A	N/A	Total	87.7	86.9	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

**** Receptor #2 ****

Description	Baselines (dBA)		
	Land Use	Daytime	Evening

Pipelines - Pipeline Installation

 Matilija Jr High/Ojai Valley School Commercial 58.3 45.0 45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Compactor (ground)	No	20		83.2	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Dozer	No	40		81.7	50.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		
	Day	Evening	Evening	Evening	Day	Night	Evening	Evening	Evening
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Crane	N/A	N/A	80.6	72.6	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
Man Lift	N/A	N/A	74.7	67.7	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
Man Lift	N/A	N/A	74.7	67.7	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
Compactor (ground)	N/A	N/A	83.2	76.2	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
Backhoe	N/A	N/A	77.6	73.6	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
Backhoe	N/A	N/A	77.6	73.6	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
Dozer	N/A	N/A	81.7	77.7	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
N/A	N/A	Total	83.2	82.5	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

Pipelines - Paving

Matilija Jr High/Ojai Valley School Commercial 58.3 45.0 45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	50.0	0.0
Concrete Mixer Truck	No	40		78.8	50.0	0.0
Concrete Mixer Truck	No	40		78.8	50.0	0.0
Concrete Mixer Truck	No	40		78.8	50.0	0.0
Paver	No	50		77.2	50.0	0.0
Roller	No	20		80.0	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day		Calculated (dBA) Evening		Day Night		Evening		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck	N/A	N/A	78.8	74.8	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
Concrete Mixer Truck	N/A	N/A	78.8	74.8	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
Concrete Mixer Truck	N/A	N/A	78.8	74.8	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
Paver	N/A	N/A	77.2	74.2	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
Roller	N/A	N/A	80.0	73.0	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
Backhoe	N/A	N/A	77.6	73.6	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
N/A	N/A	Total	80.0	82.8	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

Pipelines - Architectural Coating
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
 Case Description: Pipelines - Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences (N Montgomery)	Residential	57.2	45.0	45.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	30.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day			Calculated (dBA) Evening			Day Night		Evening		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	N/A	82.1	78.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	82.1	78.1	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	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Mati Iija Jr High/Ojai Valley School	Commercial	58.3	45.0	45.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	50.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
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Pipelines - Architectural Coating

Night	Day		Calculated (dBA)		Day		Evening		Lmax
	Leq	Lmax	Evening	Leq	Night	Leq	Lmax	Leq	
Compressor (air)	N/A	N/A	77.7	73.7	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
		Total	77.7	73.7	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

Well Construction - Site Preparation
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
 Case Description: Well Construction - Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence North of Grand	Residential	55.7	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		250.0	0.0
Backhoe	No	40		77.6	250.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Lmax	Leq	Leq		Lmax	Leq	Lmax	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	71.0	67.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	63.6	59.6	N/A	N/A	N/A	N/A	N/A
		Total	71.0	67.8	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

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence South of Grand	Residential	59.3	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		490.0	0.0
Backhoe	No	40		77.6	490.0	0.0

Results

Well Construction - Site Preparation
 Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night		Calculated (dBA)				Day		Evening		
		Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	N/A	65.2	61.2	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	N/A	57.7	53.8	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
	N/A	N/A	Total	65.2	61.9	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

Well Construction - Well Drilling
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
Case Description: Well Construction - Well Drilling

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence North of Grand	Residential	55.7	45.0	45.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250.0	0.0
Drill Rig Truck	No	20		79.1	250.0	0.0
Flat Bed Truck	No	40		74.3	250.0	0.0
Flat Bed Truck	No	40		74.3	250.0	0.0
Backhoe	No	40		77.6	250.0	0.0

Results

Night	Noise Limit Exceedance (dBA)						Noise Limits (dBA)			
	Day	Calculated (dBA)				Day Night		Evening		Lmax
		Evening	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Generator	N/A	N/A	66.7	63.6	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	
Drill Rig Truck	N/A	N/A	65.2	58.2	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	
Flat Bed Truck	N/A	N/A	60.3	56.3	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	
Flat Bed Truck	N/A	N/A	60.3	56.3	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	
Backhoe	N/A	N/A	63.6	59.6	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	
Total	N/A	N/A	66.7	66.8	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	

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence South of Grand	Residential	59.3	45.0	45.0

Equipment			
Spec	Actual	Receptor	Estimated
Page 1			

Description	Impact Device	Well Construction - Well Usage (%)		Well Drilling		Shielding (dBA)
		Lmax (dBA)	Lmax (dBA)	Distance (feet)		
Generator	No	50		80.6	490.0	0.0
Drill Rig Truck	No	20		79.1	490.0	0.0
Flat Bed Truck	No	40		74.3	490.0	0.0
Flat Bed Truck	No	40		74.3	490.0	0.0
Backhoe	No	40		77.6	490.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)					Day Night		Evening		
	Day		Evening							
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Generator	N/A	N/A	60.8	N/A	57.8	N/A	N/A	N/A	N/A	N/A
Drill Rig Truck	N/A	N/A	59.3	N/A	52.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	N/A	N/A	54.4	N/A	50.4	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	N/A	N/A	54.4	N/A	50.4	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	57.7	N/A	53.8	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	Total	60.8	60.9	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

Well Construction - Electrical Pump Installation
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/19/2018
Case Description: Well Construction - Electrical / Pump Installation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence North of Grand	Residential	55.7	45.0	45.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	250.0	0.0
Man Lift	No	20		74.7	250.0	0.0
Man Lift	No	20		74.7	250.0	0.0
Backhoe	No	40		77.6	250.0	0.0
Backhoe	No	40		77.6	250.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)			
Night	Day	Calculated (dBA)				Day Night		Evening					
		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax			
Equipment													
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Crane	N/A	N/A	66.6	58.6	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	N/A	N/A	60.7	53.7	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	N/A	N/A	60.7	53.7	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	63.6	59.6	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	63.6	59.6	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Total	66.6	64.8	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence South of Grand	Residential	59.3	45.0	45.0

Spec	Equipment		
	Actual	Receptor	Estimated
	Page 1		

Well Construction - Electrical Pump Installation

Description	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	490.0	0.0
Man Lift	No	20		74.7	490.0	0.0
Man Lift	No	20		74.7	490.0	0.0
Backhoe	No	40		77.6	490.0	0.0
Backhoe	No	40		77.6	490.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		
	Day		Evening		Night				
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Crane			60.7	52.8	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
Man Lift			54.9	47.9	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
Man Lift			54.9	47.9	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
Backhoe			57.7	53.8	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
Backhoe			57.7	53.8	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
		Total	60.7	59.0	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

Tank Construction - Demolition
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/20/2018
Case Description: Tank Construction - Demolition

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	25.0	0.0
Dozer	No	40		81.7	25.0	0.0
Backhoe	No	40		77.6	25.0	0.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
Night	Day	Calculated (dBA)		Day Night	Evening			Lmax	
		Lmax	Leq		Lmax	Leq	Lmax		
Concrete Saw	N/A	95.6	88.6	N/A	N/A	N/A	N/A	N/A	
Dozer	N/A	87.7	83.7	N/A	N/A	N/A	N/A	N/A	
Backhoe	N/A	83.6	79.6	N/A	N/A	N/A	N/A	N/A	
	Total	95.6	90.2	N/A	N/A	N/A	N/A	N/A	

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
100 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	100.0	0.0
Dozer	No	40		81.7	100.0	0.0
Backhoe	No	40		77.6	100.0	0.0

Tank Construction - Demolition

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)			Day Night		Evening		
		Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	N/A	N/A	83.6	76.6	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
Dozer	N/A	N/A	75.6	71.7	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
Backhoe	N/A	N/A	71.5	67.6	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
	Total		83.6	78.2	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

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
200 Feet	Residential	65.0	45.0	45.0

Description	Impact Devi ce	Usage (%)	Equipment		Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	200.0	0.0
Dozer	No	40		81.7	200.0	0.0
Backhoe	No	40		77.6	200.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)			Day Night		Evening		
		Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	N/A	N/A	77.5	70.5	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
Dozer	N/A	N/A	69.6	65.6	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

			Tank Construction - Demolition						
Backhoe			65.5	61.5	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
		Total	77.5	72.2	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

Tank Construction - Site Preparation
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/20/2018
 Case Description: Tank Construction - Site Preparation

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		25.0	0.0
Backhoe	No	40		77.6	25.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)				Day Night		Evening		
	Day		Evening		Night		Evening		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	91.0	87.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	83.6	79.6	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	N/A	91.0	87.8	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

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
100 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		100.0	0.0
Backhoe	No	40		77.6	100.0	0.0

Results

Tank Construction - Site Preparation
 Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night		Calculated (dBA)			Day Night		Evening		
		Evening							
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	N/A	N/A	79.0	75.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	71.5	67.6	N/A	N/A	N/A	N/A	N/A
			Total	79.0	75.7	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

**** Receptor #3 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
200 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		200.0	0.0
Backhoe	No	40		77.6	200.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night		Calculated (dBA)			Day Night		Evening		
		Evening							
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	N/A	N/A	73.0	69.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	65.5	61.5	N/A	N/A	N/A	N/A	N/A
			Total	73.0	69.7	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

Tank Construction - Grading
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/20/2018
Case Description: Tank Construction - Grading

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	25.0	0.0
Dozer	No	40		81.7	25.0	0.0
Backhoe	No	40		77.6	25.0	0.0
Concrete Saw	No	20		89.6	25.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
										Evening		
Night		Day		Calculated (dBA)		Day Night						
				Evening								
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
											Lmax	Leq
Excavator	N/A	N/A	N/A	86.7	82.8	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	N/A		
Dozer	N/A	N/A	N/A	87.7	83.7	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	N/A		
Backhoe	N/A	N/A	N/A	83.6	79.6	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	N/A		
Concrete Saw	N/A	N/A	N/A	95.6	88.6	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	N/A		
			Total	95.6	90.9	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	N/A		

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
100 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		

Tank Construction - Grading					
Excavator	No	40	80.7	100.0	0.0
Dozer	No	40	81.7	100.0	0.0
Backhoe	No	40	77.6	100.0	0.0
Concrete Saw	No	20	89.6	100.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day Night		Evening		
		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Excavator		74.7	70.7	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
Dozer		75.6	71.7	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
Backhoe		71.5	67.6	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
Concrete Saw		83.6	76.6	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
	Total	83.6	78.9	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

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
200 Feet	Residential	65.0	45.0	45.0

Description	Impact Devi ce	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Excavator	No	40		80.7	200.0	0.0
Dozer	No	40		81.7	200.0	0.0
Backhoe	No	40		77.6	200.0	0.0
Concrete Saw	No	20		89.6	200.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day Night		Evening		
		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax

			Tank Construction - Grading						
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq			
Excavator			68.7	64.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dozer			69.6	65.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Backhoe			65.5	61.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Concrete Saw			77.5	70.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Total	77.5	72.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Tank Construction - Building Construction
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/20/2018
Case Description: Tank Construction - Building Construction

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25 Feet	Residential	65.0	45.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compactor (ground)	No	20		83.2	25.0	0.0
Crane	No	16		80.6	25.0	0.0
Man Lift	No	20		74.7	25.0	0.0
Man Lift	No	20		74.7	25.0	0.0
Backhoe	No	40		77.6	25.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Lmax	Leq	Night	Evening	Lmax	Leq	
Equipment								
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compactor (ground)	N/A	N/A	89.3	82.3	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	N/A	N/A	86.6	78.6	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
Man Lift	N/A	N/A	80.7	73.7	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
Man Lift	N/A	N/A	80.7	73.7	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
Backhoe	N/A	N/A	83.6	79.6	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	Total	89.3	85.8	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

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
100 Feet	Residential	65.0	45.0	45.0

Equipment

Spec Page 1	Actual	Receptor	Estimated
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Description	Tank Construction - Building Construction		Construction		Shielding (dBA)	
	Impact Device	Usage (%)	Lmax (dBA)	Lmax (dBA)		Distance (feet)
Compactor (ground)	No	20		83.2	100.0	0.0
Crane	No	16		80.6	100.0	0.0
Man Lift	No	20		74.7	100.0	0.0
Man Lift	No	20		74.7	100.0	0.0
Backhoe	No	40		77.6	100.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		
	Day		Evening		Night				
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compactor (ground)			77.2	70.2	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			74.5	66.6	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
Man Lift			68.7	61.7	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
Man Lift			68.7	61.7	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
Backhoe			71.5	67.6	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
		Total	77.2	73.7	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

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
200 Feet	Residential	65.0	45.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	200.0	0.0
Man Lift	No	20		74.7	200.0	0.0
Man Lift	No	20		74.7	200.0	0.0
Backhoe	No	40		77.6	200.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Tank Construction - Building Construction

Night	Day		Calculated (dBA) Evening		Day Night		Evening		Lmax
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compactor (ground)	N/A	N/A	71.2	64.2	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	N/A	N/A	68.5	60.6	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
Man Lift	N/A	N/A	62.7	55.7	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
Man Lift	N/A	N/A	62.7	55.7	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
Backhoe	N/A	N/A	65.5	61.5	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
N/A	N/A	Total	71.2	67.7	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

Tank Constructi on - Pavi ng
Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 11/20/2018
Case Descri pti on: Tank Constructi on - Pavi ng

**** Receptor #1 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
25 Feet	Resi denti al	65. 0	45. 0	45. 0

Equi pment

Descri pti on	Impact Devi ce	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Concrete Mi xer Truck	No	40		78. 8	25. 0	0. 0
Concrete Mi xer Truck	No	40		78. 8	25. 0	0. 0
Concrete Mi xer Truck	No	40		78. 8	25. 0	0. 0
Paver	No	50		77. 2	25. 0	0. 0
Ro l l er	No	20		80. 0	25. 0	0. 0
Backhoe	No	40		77. 6	25. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Cal cul ated (dBA)				Day Ni ght		Eveni ng		
	Day		Eveni ng		Day Ni ght		Eveni ng		
Equi pment	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mi xer Truck	N/A	N/A	84. 8	80. 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
Concrete Mi xer Truck	N/A	N/A	84. 8	80. 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
Concrete Mi xer Truck	N/A	N/A	84. 8	80. 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
Concrete Mi xer Truck	N/A	N/A	84. 8	80. 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
Paver	N/A	N/A	83. 2	80. 2	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
Ro l l er	N/A	N/A	86. 0	79. 0	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
Backhoe	N/A	N/A	83. 6	79. 6	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
		Total	86. 0	88. 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

**** Receptor #2 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght

			Tank Constructi on - Pavi ng				
Concrete Mi xer Truck	No	40	78.8	200.0	0.0		
Concrete Mi xer Truck	No	40	78.8	200.0	0.0		
Concrete Mi xer Truck	No	40	78.8	200.0	0.0		
Concrete Mi xer Truck	No	40	78.8	200.0	0.0		
Paver	No	50	77.2	200.0	0.0		
Ro l l er	No	20	80.0	200.0	0.0		
Backhoe	No	40	77.6	200.0	0.0		

Resul ts

Noi se Li mi t Exceedance (dBA)

Noi se Li mi ts (dBA)

			Cal cul ated (dBA)		Day		Eveni ng		
Ni ght			Day		Ni ght				
			Eveni ng						
Equi pment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mi xer Truck	N/A	N/A	66.8	62.8	N/A	N/A	N/A	N/A	N/A
Concrete Mi xer Truck	N/A	N/A	66.8	62.8	N/A	N/A	N/A	N/A	N/A
Concrete Mi xer Truck	N/A	N/A	66.8	62.8	N/A	N/A	N/A	N/A	N/A
Concrete Mi xer Truck	N/A	N/A	66.8	62.8	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	65.2	62.2	N/A	N/A	N/A	N/A	N/A
Ro l l er	N/A	N/A	68.0	61.0	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	65.5	61.5	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	68.0	70.8	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

Tank Construction - Architectural Coating
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/20/2018
Case Description: Tank Construction - Architectural Coating

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25 Feet	Residential	65.0	45.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	25.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day Night		Evening			
	Day	Evening		Night		Lmax	Leq	Lmax	Leq	Lmax
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)			83.7	79.7	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	N/A	N/A
N/A	N/A	Total	83.7	79.7	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	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
100 Feet	Residential	65.0	45.0	45.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Tank Construction - Architectural Coating

Night	Day		Calculated (dBA) Evening		Day Night		Evening		
	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	71.6	67.7	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
		Total	71.6	67.7	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

**** Receptor #3 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
200 Feet	Residential	65.0	45.0	45.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	200.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day		Calculated (dBA) Evening		Day Night		Evening		
	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	65.6	61.6	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
		Total	65.6	61.6	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