Appendix F

Noise Modeling Data Sheets

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/19/2021
Case Description: South Field - Paving

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	70.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1000.0	0.0

Results

	Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
	Calculated (dBA) Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment												
Compressor (air)	51.6	47.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	51.6	47.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/19/2021
Case Description: South Field - Building Construction

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	70.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	1000.0	0.0
Gradall	No	40		83.4	1000.0	0.0
Gradall	No	40		83.4	1000.0	0.0
Gradall	No	40		83.4	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0
Welder / Torch	No	40		74.0	1000.0	0.0
Generator	No	50		80.6	1000.0	0.0

Results

	Calculated (dBA)			Noise Limits (dBA) Day			Evening			Night			Noise Limit Exceedance (dBA) Day			Evening			Night		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Crane	54.5	46.6	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
Gradall	57.4	53.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gradall	57.4	53.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Gradall	57.4	53.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	49.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	49.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	49.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48.0	44.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.4	60.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/19/2021
Case Description: South Field - Grading

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	70.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	1000.0	0.0
Grader	No	40	85.0		1000.0	0.0
Refrigerator Unit	No	100		73.0	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0
Front End Loader	No	40		79.1	1000.0	0.0

Results

	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)			
	Day		Evening		Night		Day		Evening		Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	54.7	50.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	59.0	55.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Refrigerator Unit	47.0	47.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	49.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	49.1	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						
Front End Loader			53.1	49.1		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			59.0	58.6		N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/19/2021
Case Description: South Field - Paving

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	70.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	1000.0	0.0
Paver	No	50		77.2	1000.0	0.0
Roller	No	20		80.0	1000.0	0.0
Roller	No	20		80.0	1000.0	0.0
All Other Equipment > 5 HP	No	50	85.0		1000.0	0.0
Paver	No	50		77.2	1000.0	0.0

Results

	Calculated (dBA)				Noise Limits (dBA)			
	Day		Evening		Night			
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
	Noise Limit Exceedance (dBA)							
	Day		Evening		Night			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	

Paver					51.2	48.2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver					51.2	48.2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller					54.0	47.0		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller					54.0	47.0		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP					59.0	56.0		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver					51.2	48.2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total			59.0	58.4		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 03/19/2021
Case Description: South Field - Site Preparation

**** Receptor #2 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	70.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	770.0	0.0
Dozer	No	40		81.7	770.0	0.0
Dozer	No	40		81.7	770.0	0.0
Front End Loader	No	40		79.1	770.0	0.0
Front End Loader	No	40		79.1	770.0	0.0
Front End Loader	No	40		79.1	770.0	0.0
Front End Loader	No	40		79.1	770.0	0.0

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	Day		Evening		Night		Day		Evening		Night			
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	57.9	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	57.9	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	57.9	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	55.4	51.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Front End Loader			55.4	51.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			55.4	51.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			55.4	51.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		57.9	61.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A