

APPENDIX 11

Noise Data Sheets

Roadway Construction Noise Model (RCNM),Version 1.

Report date: 10/25/2021
 Case Description: CBP Project Category 1 - Wells

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	25	0
Generator	No	50		80.6	25	0
Pumps	No	50		80.9	25	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Auger Drill Rig	90.4	83.4
Generator	86.7	83.6
Pumps	87	84
Total	90.4	88.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021
 Case Description: CBP Project Category 1 - Wells

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	50	0
Generator	No	50		80.6	50	0
Pumps	No	50		80.9	50	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Auger Drill Rig	84.4	77.4
Generator	80.6	77.6
Pumps	80.9	77.9
Total	84.4	82.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: #####

Case Description: CBP Project Category 1 - Wells

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	100	0
Generator	No	50		80.6	100	0
Pumps	No	50		80.9	100	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Auger Drill Rig	78.3	71.3
Generator	74.6	71.6
Pumps	74.9	71.9
Total	78.3	76.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/25/2021
 Case Description: CBP Project Category 1 - Wells

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	225	0
Generator	No	50		80.6	225	0
Pumps	No	50		80.9	225	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Auger Drill Rig	71.3	64.3
Generator	67.6	64.6
Pumps	67.9	64.9
Total	71.3	69.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/25/2021
 Case Description: CBP Project Category 2 - Pipelines/Turnouts

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	25	0
Compactor (ground)	No	20		83.2	25	0
Concrete Saw	No	20		89.6	25	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Excavator	86.7	82.8
Compactor (ground)	89.3	82.3
Concrete Saw	95.6	88.6
Total	95.6	90.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.

Report date: 10/25/2021
 Case Description: CBP Project Category 2 - Pipelines/Turnouts

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50	0
Compactor (ground)	No	20		83.2	50	0
Concrete Saw	No	20		89.6	50	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Excavator		80.7	76.7
Compactor (ground)		83.2	76.2
Concrete Saw		89.6	82.6
Total		89.6	84.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/25/2021

Case Description: CBP Project Category 2 - Pipelines/Turnouts

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	100	0
Compactor (ground)	No	20		83.2	100	0
Concrete Saw	No	20		89.6	100	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Excavator	74.7	70.7
Compactor (ground)	77.2	70.2
Concrete Saw	83.6	76.6
Total	83.6	78.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021
 Case Description: CBP Project Category 2 - Pipelines/Turnouts

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	225	0
Compactor (ground)	No	20		83.2	225	0
Concrete Saw	No	20		89.6	225	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Excavator	67.6	63.7
Compactor (ground)	70.2	63.2
Concrete Saw	76.5	69.5
Total	76.5	71.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: #####

Case Description: CBP Project Category 2 - Reservoirs/Pump Stations

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	25	0
Backhoe	No	40		77.6	25	0
Front End Loader	No	40		79.1	25	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Crane	86.6	78.6
Backhoe	83.6	79.6
Front End Loader	85.1	81.2
Total	86.6	84.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.

Report date: 10/25/2021

Case Description: CBP Project Category 2 - Reservoirs/Pump Stations

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50	0
Backhoe	No	40		77.6	50	0
Front End Loader	No	40		79.1	50	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Crane		80.6	72.6
Backhoe		77.6	73.6
Front End Loader		79.1	75.1
	Total	80.6	78.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021

Case Description: CBP Project Category 2 - Reservoirs/Pump Stations

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100	0
Backhoe	No	40		77.6	100	0
Front End Loader	No	40		79.1	100	0

Results

Equipment	Calculated (dBA)	
	*Lmax	Leq
Crane	74.5	66.6
Backhoe	71.5	67.6
Front End Loader	73.1	69.1
Total	74.5	72.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021

Case Description: CBP Project Category 2 - Reservoirs/Pump Stations

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	225	0
Backhoe	No	40		77.6	225	0
Front End Loader	No	40		79.1	225	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Crane		67.5	59.5
Backhoe		64.5	60.5
Front End Loader		66	62.1
	Total	67.5	65.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021

Case Description: CBP Project Category 4 - Water Treatment Facilities

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		25	0
Front End Loader	No	40		79.1	25	0
Compactor (ground)	No	20		83.2	25	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Grader	91	87
Front End Loader	85.1	81.2
Compactor (ground)	89.3	82.3
Total	91	89.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021

Case Description: CBP Project Category 4 - Water Treatment Facilities

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		50	0
Front End Loader	No	40		79.1	50	0
Compactor (ground)	No	20		83.2	50	0

Results

Calculated (dBA)		*Lmax	Leq
Equipment			
Grader		85	81
Front End Loader		79.1	75.1
Compactor (ground)		83.2	76.2
Total		85	83

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/25/2021
 Case Description: CBP Project Category 4 - Water Treatment Facilities

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		100	0
Front End Loader	No	40		79.1	100	0
Compactor (ground)	No	20		83.2	100	0

Results

Calculated (dBA)		*Lmax	Leq
Equipment			
Grader		79	75
Front End Loader		73.1	69.1
Compactor (ground)		77.2	70.2
Total		79	77

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: #####
 Case Description: CBP Project Category 4 - Water Treatment Facilities

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
25 Feet	Residential	65	45	45

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		225	0
Front End Loader	No	40		79.1	225	0
Compactor (ground)	No	20		83.2	225	0

Results

Calculated (dBA)		*Lmax	Leq
Equipment			
Grader		71.9	68
Front End Loader		66	62.1
Compactor (ground)		70.2	63.2
Total		71.9	70

*Calculated Lmax is the Loudest value.