

Appendix NOI

Noise Measurements and Calculations

Freq weight : A
 Time weight : SLOW
 Level Range : 40-100
 Max dB : 49.9 - 2021/02/12 09:44:31
 Level Range : 40-100
 SEL : 65.5
 Leq : 36.0

No.s	Date Time	(dB)				
1	2021/02/12 09:36:54	35.9	41.3	38.8	38.8	43.2
6	2021/02/12 09:37:09	36.9	40.5	35.2	37.3	39.0
11	2021/02/12 09:37:24	40.1	34.7	37.3	40.0	40.6
16	2021/02/12 09:37:39	35.3	40.9	34.7	37.5	34.7
21	2021/02/12 09:37:54	41.2	40.8	35.5	35.5	35.4
26	2021/02/12 09:38:09	35.8	34.2	39.2	43.5	39.6
31	2021/02/12 09:38:24	34.7	34.8	36.9	36.2	40.1
36	2021/02/12 09:38:39	34.0	33.1	38.0	33.4	34.9
41	2021/02/12 09:38:54	32.9	36.1	33.6	33.1	40.1
46	2021/02/12 09:39:09	33.7	35.4	33.1	33.0	33.0
51	2021/02/12 09:39:24	34.9	37.6	34.1	35.0	34.0
56	2021/02/12 09:39:39	34.7	37.1	33.9	33.6	35.6
61	2021/02/12 09:39:54	33.7	36.1	37.0	34.1	33.4
66	2021/02/12 09:40:09	38.0	34.1	36.6	34.0	37.8
71	2021/02/12 09:40:24	34.5	34.3	34.0	34.2	33.6
76	2021/02/12 09:40:39	33.6	33.3	33.0	33.1	33.0
81	2021/02/12 09:40:54	33.0	33.2	33.1	32.9	33.3
86	2021/02/12 09:41:09	33.1	33.0	32.5	33.0	32.6
91	2021/02/12 09:41:24	32.1	32.5	32.3	32.4	32.3
96	2021/02/12 09:41:39	32.6	32.4	32.9	32.9	33.0
101	2021/02/12 09:41:54	33.0	37.8	33.3	32.7	32.6
106	2021/02/12 09:42:09	32.4	32.6	32.7	32.7	33.2
111	2021/02/12 09:42:24	33.2	33.1	33.8	35.6	35.3
116	2021/02/12 09:42:39	34.8	32.9	33.0	32.8	32.4
121	2021/02/12 09:42:54	32.6	32.4	32.5	32.3	32.9
126	2021/02/12 09:43:09	33.0	33.0	33.6	32.9	33.6
131	2021/02/12 09:43:24	33.0	33.0	33.3	32.8	33.5
136	2021/02/12 09:43:39	32.4	33.2	33.6	33.6	34.1
141	2021/02/12 09:43:54	34.5	33.6	33.3	33.5	34.4
146	2021/02/12 09:44:09	36.9	38.2	37.5	46.4	46.1
151	2021/02/12 09:44:24	45.8	48.0	49.4	47.8	47.9
156	2021/02/12 09:44:39	47.7	43.7	40.2	41.8	42.5
161	2021/02/12 09:44:54	39.8	39.7	38.8	37.6	38.0
166	2021/02/12 09:45:09	36.2	35.3	36.6	35.7	35.0
171	2021/02/12 09:45:24	34.4	33.5	33.4	34.8	33.7
176	2021/02/12 09:45:39	33.2	33.8	33.5	33.5	33.4
181	2021/02/12 09:45:54	32.6	33.1	33.8	33.4	33.6
186	2021/02/12 09:46:09	34.2	34.0	33.9	33.7	33.2
191	2021/02/12 09:46:24	33.2	33.3	33.6	34.2	34.9
196	2021/02/12 09:46:39	38.7	39.2	41.0	39.8	41.0
201	2021/02/12 09:46:54	41.0	41.1	39.5	37.4	37.5
206	2021/02/12 09:47:09	35.6	35.2	35.5	35.7	34.6
211	2021/02/12 09:47:24	34.5	35.2	35.4	35.3	34.8
216	2021/02/12 09:47:39	34.7	35.3	34.3	33.6	34.1
221	2021/02/12 09:47:54	34.8	33.8	33.7	34.0	35.7
226	2021/02/12 09:48:09	33.2	33.3	33.6	33.2	33.3
231	2021/02/12 09:48:24	34.1	33.6	33.1	33.7	33.7
236	2021/02/12 09:48:39	32.9	33.0	34.7	33.6	33.9
241	2021/02/12 09:48:54	32.8	33.4	32.8	33.0	33.1
246	2021/02/12 09:49:09	34.8	33.4	32.6	33.9	32.9
251	2021/02/12 09:49:24	33.5	32.9	33.2	33.1	33.3
256	2021/02/12 09:49:39	33.2	33.2	33.4	33.3	33.7
261	2021/02/12 09:49:54	33.9	33.6	34.5	33.4	34.2
266	2021/02/12 09:50:09	33.8	34.3	33.7	34.4	34.6
271	2021/02/12 09:50:24	35.6	34.0	33.8	34.6	34.3
276	2021/02/12 09:50:39	34.3	34.2	33.8	33.7	33.4
281	2021/02/12 09:50:54	34.8	33.8	34.1	33.5	33.1
286	2021/02/12 09:51:09	33.2	33.5	33.9	33.7	33.5
291	2021/02/12 09:51:24	33.2	33.1	33.0	32.7	32.7
296	2021/02/12 09:51:39	33.2	33.4	32.9	32.9	33.0

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/14/2022
 Case Description: Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence	Residential	50	40	40

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Scraper	No	40		83.6	500	0
Grader	No	40	85		500	0
Backhoe	No	40		77.6	500	0

Equipment	Results													
	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Scraper	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
Grader	65	61	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	57.6	53.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65	63.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/14/2022

Case Description: Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence	Residential	50	40	40

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	500	0
Grader	No	40	85		500	0
Backhoe	No	40		77.6	500	0

Equipment	Results													
	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Dozer	61.7	57.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	65	61	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	57.6	53.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65	63.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/14/2022

Case Description: Building

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence	Residential	50	40	40

Description	Impact Device	Usage(%)	Equipment			Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)			
Tractor	No	40	40	84	500	0	
Man Lift	No	20			74.7	500	0
Crane	No	16			80.6	500	0

Equipment	Results													
	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)					
	Day		Evening		Night		Day		Evening		Night			
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor	64		60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	54.7		47.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane	60.6		52.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	64		61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/14/2022

Case Description: Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence	Residential	50	40	40

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	500	0

Equipment	Calculated (dBA)	Results												
		Noise Limits (dBA)						Noise Limit Exceedance (dBA)						
		Day		Evening		Night		Day		Evening		Night		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Compressor (air)	57.7	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
Total	57.7	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

*Calculated Lmax is the Loudest value.