

Appendix E

Noise Modeling Results and Noise Measurement Data

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 87.5 - 2018/09/10 08:59:53
Level Range : 40-100
SEL : 99.5
Leq : 70.0

No.s	Date Time	(dB)
1	2018/09/10 08:47:06	73.4
2	2018/09/10 08:47:07	73.5
3	2018/09/10 08:47:08	72.7
4	2018/09/10 08:47:09	74.0
5	2018/09/10 08:47:10	73.0
6	2018/09/10 08:47:11	75.5
7	2018/09/10 08:47:12	74.9
8	2018/09/10 08:47:13	73.7
9	2018/09/10 08:47:14	71.6
10	2018/09/10 08:47:15	70.7
11	2018/09/10 08:47:16	72.5
12	2018/09/10 08:47:17	71.6
13	2018/09/10 08:47:18	73.3
14	2018/09/10 08:47:19	72.1
15	2018/09/10 08:47:20	69.5
16	2018/09/10 08:47:21	68.3
17	2018/09/10 08:47:22	68.7
18	2018/09/10 08:47:23	68.7
19	2018/09/10 08:47:24	68.1
20	2018/09/10 08:47:25	67.9
21	2018/09/10 08:47:26	70.3
22	2018/09/10 08:47:27	69.8
23	2018/09/10 08:47:28	69.3
24	2018/09/10 08:47:29	69.2
25	2018/09/10 08:47:30	68.8
26	2018/09/10 08:47:31	66.1
27	2018/09/10 08:47:32	63.4
28	2018/09/10 08:47:33	63.3
29	2018/09/10 08:47:34	62.3
30	2018/09/10 08:47:35	61.1
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32	2018/09/10 08:47:37	60.7
33	2018/09/10 08:47:38	61.8
34	2018/09/10 08:47:39	66.0
35	2018/09/10 08:47:40	67.8
36	2018/09/10 08:47:41	69.0
37	2018/09/10 08:47:42	68.0
38	2018/09/10 08:47:43	73.1
39	2018/09/10 08:47:44	74.7
40	2018/09/10 08:47:45	69.6
41	2018/09/10 08:47:46	65.3
42	2018/09/10 08:47:47	63.6
43	2018/09/10 08:47:48	63.5
44	2018/09/10 08:47:49	64.2
45	2018/09/10 08:47:50	64.1
46	2018/09/10 08:47:51	64.6
47	2018/09/10 08:47:52	64.8
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49	2018/09/10 08:47:54	63.2
50	2018/09/10 08:47:55	61.4
51	2018/09/10 08:47:56	60.4
52	2018/09/10 08:47:57	59.0
53	2018/09/10 08:47:58	60.5
54	2018/09/10 08:47:59	61.3
55	2018/09/10 08:48:00	59.9
56	2018/09/10 08:48:01	59.3
57	2018/09/10 08:48:02	60.5
58	2018/09/10 08:48:03	59.4
59	2018/09/10 08:48:04	60.8
60	2018/09/10 08:48:05	60.6
61	2018/09/10 08:48:06	59.9
62	2018/09/10 08:48:07	60.5
63	2018/09/10 08:48:08	61.5
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65	2018/09/10 08:48:10	62.0
66	2018/09/10 08:48:11	61.4
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68	2018/09/10 08:48:13	59.6
69	2018/09/10 08:48:14	62.2
70	2018/09/10 08:48:15	60.0
71	2018/09/10 08:48:16	62.0
72	2018/09/10 08:48:17	60.8
73	2018/09/10 08:48:18	63.0
74	2018/09/10 08:48:19	64.5
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79	2018/09/10 08:48:24	63.2
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92	2018/09/10	08:48:37	64.9
93	2018/09/10	08:48:38	64.6
94	2018/09/10	08:48:39	63.8
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96	2018/09/10	08:48:41	64.6
97	2018/09/10	08:48:42	64.7
98	2018/09/10	08:48:43	68.5
99	2018/09/10	08:48:44	68.1
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101	2018/09/10	08:48:46	67.5
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104	2018/09/10	08:48:49	61.1
105	2018/09/10	08:48:50	61.2
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107	2018/09/10	08:48:52	61.4
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404	2018/09/10	08:53:49	64.6
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854	2018/09/10	09:01:19	72.5
855	2018/09/10	09:01:20	70.6
856	2018/09/10	09:01:21	69.0
857	2018/09/10	09:01:22	68.4
858	2018/09/10	09:01:23	70.7
859	2018/09/10	09:01:24	71.6
860	2018/09/10	09:01:25	70.5
861	2018/09/10	09:01:26	70.0
862	2018/09/10	09:01:27	70.4
863	2018/09/10	09:01:28	70.5
864	2018/09/10	09:01:29	69.7
865	2018/09/10	09:01:30	69.4
866	2018/09/10	09:01:31	69.5
867	2018/09/10	09:01:32	69.5
868	2018/09/10	09:01:33	69.2
869	2018/09/10	09:01:34	69.6
870	2018/09/10	09:01:35	68.5
871	2018/09/10	09:01:36	68.5
872	2018/09/10	09:01:37	67.7
873	2018/09/10	09:01:38	65.2
874	2018/09/10	09:01:39	63.7
875	2018/09/10	09:01:40	63.6
876	2018/09/10	09:01:41	63.1
877	2018/09/10	09:01:42	62.6

878	2018/09/10	09:01:43	62.6
879	2018/09/10	09:01:44	62.6
880	2018/09/10	09:01:45	75.2
881	2018/09/10	09:01:46	79.5
882	2018/09/10	09:01:47	65.8
883	2018/09/10	09:01:48	67.0
884	2018/09/10	09:01:49	68.8
885	2018/09/10	09:01:50	70.0
886	2018/09/10	09:01:51	71.6
887	2018/09/10	09:01:52	71.4
888	2018/09/10	09:01:53	71.3
889	2018/09/10	09:01:54	68.0
890	2018/09/10	09:01:55	67.6
891	2018/09/10	09:01:56	66.2
892	2018/09/10	09:01:57	65.6
893	2018/09/10	09:01:58	64.5
894	2018/09/10	09:01:59	72.1
895	2018/09/10	09:02:00	69.3
896	2018/09/10	09:02:01	69.3
897	2018/09/10	09:02:02	68.1
898	2018/09/10	09:02:03	66.5
899	2018/09/10	09:02:04	67.3
900	2018/09/10	09:02:05	66.5

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 12/6/2018
Case Description: Auto Dealership - Demolition

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	370	0
Excavator	No	40		80.7	370	0
Excavator	No	40		80.7	370	0
Concrete Saw	No	20		89.6	370	0
Dozer	No	40		81.7	370	0
Dozer	No	40		81.7	370	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/12/2018
Case Description: Auto Dealership - Site Preparation

		---- Receptor #1 ----			
		Baselines (dBA)			
Description	Land Use	Daytime	Evening	Night	
Hope Technology School	Commercial	70	70	70	
		Equipment			
		Impact	Spec	Actual	Receptor
		Device	Usage(%)	Lmax (dBA)	Distance (feet)
					Estimated Shielding (dBA)
Dozer		No	40	81.7	370
Dozer		No	40	81.7	370
Dozer		No	40	81.7	370
Tractor		No	40	84	370
Tractor		No	40	84	370
Backhoe		No	40	77.6	370
Backhoe		No	40	77.6	370

		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
Equipment															
Dozer		64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		66.6	62.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		66.6	62.6	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		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		66.6	68.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

		---- Receptor #2 ----			
		Baselines (dBA)			
Description	Land Use	Daytime	Evening	Night	
		0	0	0	
		Equipment			
		Impact	Spec	Actual	Receptor
		Device	Usage(%)	Lmax (dBA)	Distance (feet)
					Estimated Shielding (dBA)
Dozer		No	40	81.7	0
Dozer		No	40	81.7	0
Dozer		No	40	81.7	0
Tractor		No	40	84	0

Tractor	No	40	84		0	0
Backhoe	No	40		77.6	0	0
Backhoe	No	40		77.6	0	0

		Results													
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
Equipment		*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
				Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer				0		0		0		0		0		0	0
Dozer				0		0		0		0		0		0	0
Dozer				0		0		0		0		0		0	0
Tractor				0		0		0		0		0		0	0
Tractor				0		0		0		0		0		0	0
Backhoe				0		0		0		0		0		0	0
Backhoe				0		0		0		0		0		0	0
Total		0		0		0		0		0		0		0	0

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/12/2018
Case Description: Auto Dealership - Grading

		---- Receptor #1 ----														
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Hope Technology School	Commercial	70	70	70												
		Equipment														
		Impact		Spec	Actual	Receptor	Estimated									
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)									
Excavator		No		40		80.7	370	0								
Dozer		No		40		81.7	370	0								
Grader		No		40	85		370	0								
Tractor		No		40	84		370	0								
Backhoe		No		40		77.6	370	0								
Backhoe		No		40		77.6	370	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	
Excavator		63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Dozer		64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Grader		67.6	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	
Tractor		66.6	62.6	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		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Backhoe		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	67.6	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
		0	0	0											
		Equipment													
		Impact		Spec	Actual	Receptor	Estimated								
		Device	Usage(%)	Lmax	Lmax	Distance	Shielding								
				(dBA)	(dBA)	(feet)	(dBA)								
Excavator		No	40		80.7	0	0								
Dozer		No	40		81.7	0	0								
Grader		No	40	85		0	0								
Tractor		No	40	84		0	0								
Backhoe		No	40		77.6	0	0								
Backhoe		No	40		77.6	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	
Excavator				0		0		0		0		0		0		0
Dozer				0		0		0		0		0		0		0
Grader				0		0		0		0		0		0		0
Tractor				0		0		0		0		0		0		0
Backhoe				0		0		0		0		0		0		0
Backhoe				0		0		0		0		0		0		0
Total			0	0		0		0		0		0		0		0

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 12/5/2018

Case Description: Auto Dealership - Building Construction

		---- Receptor #1 ----													
		Baselines (dBA)													
Description	Land Use	Daytime	Evening	Night											
Hope Technology School	Commercial	70	70	70											
		Equipment													
		Impact	Spec	Actual	Receptor	Estimated									
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Tractor		No	40	84		370	0								
Backhoe		No	40		77.6	370	0								
Backhoe		No	40		77.6	370	0								
Crane		No	16		80.6	370	0								
Man Lift		No	20		74.7	370	0								
Man Lift		No	20		74.7	370	0								
Man Lift		No	20		74.7	370	0								
Generator		No	50		80.6	370	0								
Welder / Torch		No	40		74	370	0								
Auger Drill Rig		No	20		84.4	370	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	
Tractor		66.6	62.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Backhoe		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Backhoe		60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Crane		63.2	55.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Man Lift		57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Man Lift		57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Man Lift		57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Generator		63.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Welder / Torch		56.6	52.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Auger Drill Rig		67	60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	67	67.4	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.															

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/12/2018
Case Description: Auto Dealership - Paving

		---- Receptor #1 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

		Equipment				
Description	Device	Impact	Usage(%)	Spec	Actual	Receptor
				Lmax (dBA)	Lmax (dBA)	Distance (feet)
Pavement Scarafier	No	No	20		89.5	370
Pavement Scarafier	No	No	20		89.5	370
Roller	No	No	20		80	370
Paver	No	No	50		77.2	370
Paver	No	No	50		77.2	370
Roller	No	No	20		80	370

		Results													
Equipment		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
Pavement Scarafier		72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier		72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		62.6	55.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		59.8	56.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		59.8	56.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		62.6	55.6	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		72.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
		0	0	0

		Equipment				
Description	Device	Impact	Usage(%)	Spec	Actual	Receptor
				Lmax (dBA)	Lmax (dBA)	Distance (feet)
Pavement Scarafier	No	No	20		89.5	0
Pavement Scarafier	No	No	20		89.5	0
Roller	No	No	20		80	0
Paver	No	No	50		77.2	0

Paver	No	50	77.2	0	0
Roller	No	20	80	0	0

		Results													
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
Equipment		*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Pavement Scarafier				0		0		0		0		0		0	0
Pavement Scarafier				0		0		0		0		0		0	0
Roller				0		0		0		0		0		0	0
Paver				0		0		0		0		0		0	0
Paver				0		0		0		0		0		0	0
Roller				0		0		0		0		0		0	0
Total		0	0	0		0		0		0		0		0	0

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/12/2018

Case Description: Auto Dealership - Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	370	0

Results

		Calculated (dBA)			Noise Limits (dBA)				Noise Limit Exceedance (dBA)					
		*Lmax	Leq	Day	Leq	Evening	Night	Day	Leq	Evening	Night	Leq	Night	
Equipment														
Compressor (air)		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
	Total	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
		*Calculated Lmax is the Loudest value.												

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
		0	0	0

Equipment

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

Results

		Calculated (dBA)			Noise Limits (dBA)			Noise Limit Exceedance (dBA)					
		*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Night Lmax	Leq
Equipment													
Compressor (air)													
	Total	0	0	0	0	0	0	0	0	0	0	0	0
		*Calculated Lmax is the Loudest value.											