

RESULTS: SOUND LEVELS

13002323A

Maser Consulting, P.A.
J.F.M.

15 August 2017
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: 13002323A
RUN: 2015 Existing Conditions (AM)
BARRIER DESIGN: INPUT HEIGHTS

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

ATMOSPHERICS: 68 deg F, 50% RH

Receiver

Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		
				Calculated dBA	Crit'n dBA	Calculated d3	Crit'n dB			Calculated dB	Goal dB	Calculated minus Goal dB
Receptor 1	8	1	43.9	42.8	66	-1.1	10	----	42.8	0.0	8	-8.0
Receptor 2	10	1	74.5	65.5	66	-9.0	10	----	65.5	0.0	8	-8.0
Receptor 3	12	1	59.7	60.1	66	0.4	10	----	60.1	0.0	8	-8.0
Receptor 4	14	1	75.6	73.0	66	-2.6	10	Snd Lvl	73.0	0.0	8	-8.0
Receptor 5	16	1	44.5	43.8	66	-0.7	10	----	43.8	0.0	8	-8.0
Receptor 6	18	1	71.6	72.1	66	0.5	10	Snd Lvl	72.1	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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Name	No.	#DUs	Existing LAeq1h dBA	No Barrier					With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction			
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	Calculated minus Goal dB	
Receptor 1	8	1	42.4	43.3	66	0.9	10	----	43.3	0.0	8	-8.0	
Receptor 2	10	1	71.7	64.9	66	-6.8	10	----	64.9	0.0	8	-8.0	
Receptor 3	12	1	59.3	60.1	66	0.8	10	----	60.1	0.0	8	-8.0	
Receptor 4	14	1	76.9	74.6	66	-2.3	10	Snd Lvl	74.6	0.0	8	-8.0	
Receptor 5	16	1	46.7	42.8	66	-3.9	10	----	42.8	0.0	8	-8.0	
Receptor 6	18	1	71.9	71.8	66	-0.1	10	Snd Lvl	71.8	0.0	8	-8.0	
Dwelling Units		# DUs	Noise Reduction										
			Min dB	Avg dB	Max dB								
All Selected		6	0.0	0.0	0.0								
All Impacted		2	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								

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Receiver

Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n Sub'l Inc dB			Calculated dB	Goal dB	Calculated minus Goal dB
Receptor 1	8	1	47.7	42.5	66	-5.2	10	----	42.5	0.0	8	-8.0
Receptor 2	10	1	73.6	64.6	66	-9.0	10	----	64.6	0.0	8	-8.0
Receptor 3	12	1	59.5	59.6	66	0.1	10	----	59.6	0.0	8	-8.0
Receptor 4	14	1	74.0	73.5	66	-0.5	10	Snd Lvl	73.5	0.0	8	-8.0
Receptor 5	16	1	49.1	42.2	66	-6.9	10	----	42.2	0.0	8	-8.0
Receptor 6	18	1	70.7	71.4	66	0.7	10	Snd Lvl	71.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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RUN: 2035 No-Build Conditions (AM)
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Receiver												
Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		Calculated minus Goal dBA
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	
Receptor 1	8	1	44.3	43.1	66	-1.2	10	----	43.1	0.0	8	-8.0
Receptor 2	10	1	75.0	65.9	66	-9.1	10	----	65.9	0.0	8	-8.0
Receptor 3	12	1	60.1	60.6	66	0.5	10	----	60.6	0.0	8	-8.0
Receptor 4	14	1	76.4	73.7	66	-2.7	10	Snd Lvl	73.7	0.0	8	-8.0
Receptor 5	16	1	44.9	44.0	66	-0.9	10	----	44.0	0.0	8	-8.0
Receptor 6	18	1	72.3	72.6	66	0.3	10	Snd Lvl	72.6	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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Receiver

Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n Sub'l Inc dB			Calculated dB	Goal dB	Calculated minus Goal dB
Receptor 1	8	1	42.8	43.6	66	0.8	10	----	43.6	0.0	8	-8.0
Receptor 2	10	1	72.4	65.5	66	-6.9	10	----	65.5	0.0	8	-8.0
Receptor 3	12	1	59.9	60.7	66	0.8	10	----	60.7	0.0	8	-8.0
Receptor 4	14	1	77.7	75.2	66	-2.5	10	Snd Lvl	75.2	0.0	8	-8.0
Receptor 5	16	1	47.2	44.4	66	-2.8	10	----	44.4	0.0	8	-8.0
Receptor 6	18	1	72.6	72.4	66	-0.2	10	Snd Lvl	72.4	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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Receiver

Name	No.	#DUs	Existing LAeq1h dBA	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		Calculated minus Goal dBA
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	
Receptor 1	8	1	48.2	42.9	66	-5.3	10	----	42.9	0.0	8	-8.0
Receptor 2	10	1	74.3	65.3	66	-9.0	10	----	65.3	0.0	8	-8.0
Receptor 3	12	1	60.1	60.2	66	0.1	10	----	60.2	0.0	8	-8.0
Receptor 4	14	1	74.7	74.2	66	-0.5	10	Snd Lvl	74.2	0.0	8	-8.0
Receptor 5	16	1	49.6	42.5	66	-7.1	10	----	42.5	0.0	8	-8.0
Receptor 6	18	1	71.4	72.1	66	0.7	10	Snd Lvl	72.1	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	Calculated minus Goal dB
Receptor 1	8	1	46.2	43.7	66	-2.5	10	---	43.7	0.0	8	-8.0
Receptor 2	10	1	75.4	66.5	66	-8.9	10	Snd Lvl	66.5	0.0	8	-8.0
Receptor 3	12	1	60.5	61.1	66	0.6	10	---	61.1	0.0	8	-8.0
Receptor 4	14	1	76.5	74.0	66	-2.5	10	Snd Lvl	74.0	0.0	8	-8.0
Receptor 5	16	1	46.8	44.9	66	-1.9	10	---	44.9	0.0	8	-8.0
Receptor 6	18	1	72.7	73.2	66	0.5	10	Snd Lvl	73.2	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	3	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	
Receptor 1	8	1	45.0	43.3	66	-1.7	10	---	43.3	0.0	8	-8.0
Receptor 2	10	1	72.8	65.9	66	-6.9	10	---	65.9	0.0	8	-8.0
Receptor 3	12	1	60.3	61.2	66	0.9	10	---	61.2	0.0	8	-8.0
Receptor 4	14	1	77.9	75.6	66	-2.3	10	Snd Lvl	75.6	0.0	8	-8.0
Receptor 5	16	1	48.5	45.6	66	-2.9	10	---	45.6	0.0	8	-8.0
Receptor 6	18	1	73.9	73.0	66	-0.9	10	Snd Lvl	73.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
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				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h dBA	Noise Reduction		Calculated minus Goal dBA
				Calculated dBA	Crit'n dBA	Calculated dB	Crit'n dB			Calculated dB	Goal dB	
Receptor 1	8	1	48.3	44.2	66	-4.1	10	----	44.2	0.0	8	-8.0
Receptor 2	10	1	74.5	66.0	66	-8.5	10	Snd Lvl	66.0	0.0	8	-8.0
Receptor 3	12	1	60.2	60.9	66	0.7	10	----	60.9	0.0	8	-8.0
Receptor 4	14	1	74.9	74.8	66	-0.1	10	Snd Lvl	74.8	0.0	8	-8.0
Receptor 5	16	1	49.7	43.3	66	-6.4	10	----	43.3	0.0	8	-8.0
Receptor 6	18	1	72.6	72.8	66	0.2	10	Snd Lvl	72.8	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min dB	Avg dB	Max dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		3	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							