

Appendices

Appendix K Noise Monitoring and Modeling Data

Appendices

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N O I S E M O N I T O R I N G D A T A

Measurement Report

Report Summary

Meter's File Name	S_T_Data.009.s	Computer's File Name	LxT_0005425-20250115 155452-S_T_Data.009.ldbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-1		
Job Description	TCOE-01.0				
Note	Car Traffic and birds chirping				
Start Time	2025-01-15 15:54:52	Duration	0:15:00.0		
End Time	2025-01-15 16:09:52	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-15 15:28:00	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	63.8 dB		
LAE	93.3 dB	SEA	--- dB
EA	239.9 µPa²h		
EA8	7.7 mPa²h		
EA40	38.4 mPa²h		
LZ _{peak}	100.2 dB	2025-01-15 15:59:54	
LAS _{max}	78.6 dB	2025-01-15 15:54:53	
LAS _{min}	43.2 dB	2025-01-15 15:57:28	
LA _{eq}	63.8 dB		
LC _{eq}	71.9 dB	LC _{eq} - LA _{eq}	8.1 dB
LAL _{eq}	66.7 dB	LAL _{eq} - LA _{eq}	2.9 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}
--- dB	--- dB	0.0 dB
L _{DEN}	L _{Day}	L _{Eve}
--- dB	--- dB	--- dB
		L _{Night}
		--- dB

Any Data

	A		C		Z
	Level	Time Stamp	Level	Time Stamp	Level
L _{eq}			71.9 dB		--- dB
L _{s(max)}		2025-01-15 15:54:53	--- dB	None	--- dB
L _{s(min)}		2025-01-15 15:57:28	--- dB	None	--- dB
L _{Peak(max)}	--- dB	None	--- dB	None	100.2 dB
					2025-01-15 15:59:54

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	
LAS 8.0	
LAS 25.0	
LAS 50.0	
LAS 90.0	46.7 dB
LAS 99.0	44.4 dB



Measurement Report

Report Summary

Meter's File Name	S_T_Data.008.s	Computer's File Name	LxT_0005425-20250115 153108-S_T_Data.008.ldbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-2		
Job Description	TCOE-01.0				
Note	Near road and farm animals				
Start Time	2025-01-15 15:31:08	Duration	0:15:00.0		
End Time	2025-01-15 15:46:08	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-15 15:28:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	54.3 dB		
LAE	83.8 dB	SEA	--- dB
EA	26.9 µPa²h		
EA8	861.3 µPa²h		
EA40	4.3 mPa²h		
LZ _{peak}	92.8 dB	2025-01-15 15:43:09	
LAS _{max}	73.1 dB	2025-01-15 15:43:09	
LAS _{min}	39.5 dB	2025-01-15 15:31:37	
LA _{eq}	54.3 dB		
LC _{eq}	64.4 dB	LC _{eq} - LA _{eq}	10.1 dB
LAL _{eq}	56.0 dB	LAL _{eq} - LA _{eq}	1.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}
--- dB	--- dB	0.0 dB
L _{DEN}	L _{Day}	L _{Eve}
--- dB	--- dB	--- dB
		L _{Night}
		--- dB

Any Data

	A		C		Z
	Level	Time Stamp	Level	Time Stamp	Level
L _{eq}			64.4 dB		--- dB
L _{q(max)}		2025-01-15 15:43:09	--- dB	None	--- dB
L _{S(min)}		2025-01-15 15:31:37	--- dB	None	--- dB
L _{Peak(max)}	--- dB	None	--- dB	None	92.8 dB
					2025-01-15 15:43:09

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	
LAS 8.0	
LAS 25.0	
LAS 50.0	
LAS 90.0	42.1 dB
LAS 99.0	40.2 dB



Measurement Report

Report Summary

Meter's File Name	S_T_Data.010.s	Computer's File Name	LxT_0005425-20250115 163248-S_T_Data.010.lbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-3		
Job Description	TCOE-01.0				
Note	Traffic Noise and Commercial Water Feature				
Start Time	2025-01-15 16:32:48	Duration	0:15:00.0		
End Time	2025-01-15 16:47:48	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-15 15:28:00	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	69.3 dB		
LAE	98.8 dB	SEA	--- dB
EA	851.1 µPa²h		
EA8	27.2 mPa²h		
EA40	136.2 mPa²h		
LZ _{peak}	117.8 dB	2025-01-15 16:44:10	
LAS _{max}	93.7 dB	2025-01-15 16:44:11	
LAS _{min}	48.2 dB	2025-01-15 16:36:04	
LA _{eq}	69.3 dB		
LC _{eq}	74.4 dB	LC _{eq} - LA _{eq}	5.1 dB
LAL _{eq}	72.2 dB	LAL _{eq} - LA _{eq}	2.9 dB



Exceedances

Count Duration

LAS > 85.0 dB	1	0:00:04.2
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}
--- dB	--- dB	0.0 dB
L _{DEN}	L _{Day}	L _{Eve}
--- dB	--- dB	--- dB
		L _{Night}
		--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}			74.4 dB		--- dB	
L _{q(max)}		2025-01-15 16:44:11	--- dB	None	--- dB	None
L _{S(min)}		2025-01-15 16:36:04	--- dB	None	--- dB	None
L _{Peak(max)}	--- dB	None	--- dB	None	117.8 dB	2025-01-15 16:44:10

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	
LAS 8.0	
LAS 25.0	
LAS 50.0	
LAS 90.0	54.2 dB
LAS 99.0	50.5 dB

Measurement Report

Report Summary

Meter's File Name	S_T_Data.013.s	Computer's File Name	LxT_S_T_Data.013.lbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-1 Day Two		
Job Description	TCOE-01.0				
Note					
Start Time	2025-01-16 11:50:49	Duration	0:15:00.0		
End Time	2025-01-16 12:05:49	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-16 10:52:02	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	61.0 dB		
LAE	90.5 dB	SEA	--- dB
EA	125.9 µPa²h		
EA8	4.0 mPa²h		
EA40	20.1 mPa²h		
LZ _{peak}	96.3 dB	2025-01-16 12:05:42	
LAS _{max}	77.0 dB	2025-01-16 12:04:42	
LAS _{min}	36.7 dB	2025-01-16 12:01:56	
LA _{eq}	61.0 dB		
LC _{eq}	67.2 dB	LC _{eq} - LA _{eq}	6.2 dB
LA _{Ieq}	63.9 dB	LA _{Ieq} - LA _{eq}	2.9 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}
--- dB	--- dB	0.0 dB
L _{DEN}	L _{Day}	L _{Eve}
--- dB	--- dB	--- dB
		L _{Night}
		--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}			67.2 dB		--- dB	
L _{s(max)}		2025-01-16 12:04:42	--- dB	None	--- dB	None
L _{s(min)}		2025-01-16 12:01:56	--- dB	None	--- dB	None
L _{Peak(max)}	--- dB	None	--- dB	None	96.3 dB	2025-01-16 12:05:42

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 99.0	37.2 dB



Measurement Report

Report Summary

Meter's File Name	S_T_Data.012.s	Computer's File Name	LxT_0005425-20250116 112808-S_T_Data.012.ldbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-2 Day Two		
Job Description	TCOE-01.0				
Note					
Start Time	2025-01-16 11:28:08	Duration	0:15:00.0		
End Time	2025-01-16 11:43:08	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-16 10:52:02	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	50.7 dB		
LAE	80.2 dB	SEA	--- dB
EA	11.7 µPa²h		
EA8	376.0 µPa²h		
EA40	1.9 mPa²h		
LZ _{peak}	100.0 dB		2025-01-16 11:32:25
LAS _{max}	60.5 dB		2025-01-16 11:33:42
LAS _{min}	40.1 dB		2025-01-16 11:34:41
LA _{eq}	50.7 dB		
LC _{eq}	60.7 dB	LC _{eq} - LA _{eq}	10.0 dB
LA _l _{eq}	53.2 dB	LA _l _{eq} - LA _{eq}	2.5 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}
--- dB	--- dB	0.0 dB
L _{DEN}	L _{Day}	L _{Eve}
--- dB	--- dB	--- dB
		L _{Night}
		--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
						
L _{Peak(max)}	60.7 dB	2025-01-16 11:33:42	--- dB	None	--- dB	None
	--- dB	2025-01-16 11:34:41	--- dB	None	--- dB	None
	---	None	--- dB	None	100.0 dB	2025-01-16 11:32:25

Overloads

Count	Duration
0	0:00:00.0

Statistics

	
LAS 99.0	41.0 dB

Measurement Report

Report Summary

Meter's File Name	S_T_Data.011.s	Computer's File Name	LxT_0005425-20250116 105230-S_T_Data.011.ldbin		
Meter	LxT1 0005425	Firmware	2.404		
User	JR	Location	ST-3 Day Two		
Job Description	TCOE-01.0				
Note					
Start Time	2025-01-16 10:52:30	Duration	0:15:00.0		
End Time	2025-01-16 11:07:30	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-01-16 10:52:12	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA _{eq}	67.2 dB		
LAE	96.7 dB	SEA	--- dB
EA	524.8 µPa²h		
EA8	16.8 mPa²h		
EA40	84.0 mPa²h		
LZ _{peak}	100.1 dB		2025-01-16 11:05:46
LAS _{max}	79.1 dB		2025-01-16 10:54:49
LAS _{min}	51.1 dB		2025-01-16 10:56:38
LA _{eq}	67.2 dB		
LC _{eq}	74.8 dB	LC _{eq} - LA _{eq}	7.6 dB
LA _l _{eq}	68.4 dB	LA _l _{eq} - LA _{eq}	1.2 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L _{DN}	L _{Day}	L _{Night}	
--- dB	--- dB	0.0 dB	
L _{DEN}	L _{Day}	L _{Eve}	L _{Night}
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	67.2 dB		74.8 dB		--- dB	
L _{ξ(max)}	79.1 dB	2025-01-16 10:54:49	--- dB	None	--- dB	None
L _{ξ(min)}	51.1 dB	2025-01-16 10:56:38	--- dB	None	--- dB	None
L _{Peak(max)}	--- dB	None	--- dB	None	100.1 dB	2025-01-16 11:05:46

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 2.0	74.6 dB
LAS 8.0	72.0 dB
LAS 25.0	67.9 dB
LAS 50.0	63.7 dB
LAS 90.0	56.2 dB
LAS 99.0	52.7 dB

Long-Term 24 Hour Continuous Noise Monitoring
Calculation Input Sheet

Project: TCOE- 01.0
Date: January 15-16, 2025
Site: LT-1

Hour	Leq	Lmax	L50	L90
12:00	55.9	71.5	49.3	44.1
13:00	57.4	78.6	49.1	42.5
14:00	58.8	81.0	51.0	42.2
15:00	59.0	76.6	53.3	43.6
16:00	59.1	72.6	54.9	45.6
17:00	60.9	76.5	58.2	51.4
18:00	60.9	76.2	56.8	50.8
19:00	59.7	78.4	54.0	49.7
20:00	59.1	70.8	55.4	50.7
21:00	57.5	72.5	51.1	47.0
22:00	55.3	70.7	48.3	44.6
23:00	54.6	71.7	49.4	45.9
0:00	50.2	69.5	46.8	43.7
1:00	49.7	67.7	46.7	42.8
2:00	49.2	67.8	46.1	43.8
3:00	52.1	71.6	47.9	44.6
4:00	57.0	76.3	50.4	47.3
5:00	58.8	71.5	53.5	50.0
6:00	60.8	72.5	56.4	52.5
7:00	64.3	79.2	62.3	56.3
8:00	61.6	73.0	59.4	56.0
9:00	59.3	73.6	55.6	49.8
10:00	56.6	72.1	49.7	43.6
11:00	56.9	70.9	50.7	43.2

Averages

	<u>Leq</u>	<u>Lmax</u>
Daytime (7 a.m. - 10 p.m.)	59.7	74.9
Nighttime (10 p.m. - 7 a.m.)	55.9	71.0

Percentage of Energy

Daytime 80%
Nighttime 20%

Calculated Ldn, dBA

63.1

Long-Term 24 Hour Continuous Noise Monitoring
Calculation Input Sheet

Project: TCOE- 01.0
Date: January 15-16, 2025
Site: LT-2

Hour	Leq	Lmax	L50	L90
12:00	68.2	95.5	54.7	48.3
13:00	59.9	87.9	54.1	46.4
14:00	57.6	73.0	54.9	46.5
15:00	59.4	79.0	55.7	48.5
16:00	63.0	91.4	56.3	49.5
17:00	60.8	77.2	58.6	52.9
18:00	65.5	93.1	58.9	52.0
19:00	61.8	83.4	57.5	51.2
20:00	62.2	84.2	56.9	49.5
21:00	63.8	92.3	55.8	48.5
22:00	57.5	75.3	53.5	46.3
23:00	60.0	85.2	50.6	44.8
0:00	54.7	80.7	46.1	42.6
1:00	52.2	68.9	45.4	42.0
2:00	50.0	64.8	45.1	42.5
3:00	53.1	74.0	46.4	43.6
4:00	56.4	77.2	49.8	45.8
5:00	58.0	69.9	55.4	50.2
6:00	59.9	78.8	57.9	52.8
7:00	61.3	71.7	59.9	56.5
8:00	60.3	79.3	58.7	55.3
9:00	58.5	76.4	56.1	51.7
10:00	58.3	79.7	54.0	45.9
11:00	56.6	72.9	53.1	44.9

Averages

	<u>Leq</u>	<u>Lmax</u>
Daytime (7 a.m. - 10 p.m.)	62.3	82.5
Nighttime (10 p.m. - 7 a.m.)	56.9	75.0

Percentage of Energy

Daytime 85%
Nighttime 15%

Calculated Ldn, dBA

64.6

Project: TCOE-01.0

User: JR

Location: LT-1

<u>No.</u>	<u>Start Date</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration</u>	<u>Leg</u>	<u>Lmax</u>	<u>Lmin</u>	<u>L1</u>	<u>L2</u>	<u>L5</u>	<u>L8</u>	<u>L10</u>	<u>L25</u>	<u>L50</u>	<u>L90</u>	<u>L95</u>	<u>L99</u>
1	1/15/2025	12:00 PM	1:00 PM	1:00	55.9	71.5	41.5	64.8	63.8	62.2	61.1	60.5	56.5	49.3	44.1	43.5	42.7
2	1/15/2025	1:00 PM	2:00 PM	1:00	57.4	78.6	40.1	66.6	65.1	63.3	62.1	61.4	57.3	49.1	42.5	41.7	40.7
3	1/15/2025	2:00 PM	3:00 PM	1:00	58.8	81.0	38.5	67.2	65.8	64.1	63.1	62.5	58.7	51.0	42.2	41.3	39.8
4	1/15/2025	3:00 PM	4:00 PM	1:00	59.0	76.6	39.1	67.4	66.3	64.7	63.7	63.2	60.1	53.3	43.6	42.6	41.4
5	1/15/2025	4:00 PM	5:00 PM	1:00	59.1	72.6	40.1	67.6	66.3	64.6	63.8	63.3	60.6	54.9	45.6	44.4	42.7
6	1/15/2025	5:00 PM	6:00 PM	1:00	60.9	76.5	43.6	68.9	66.9	65.7	64.9	64.5	62.0	58.2	51.4	49.9	45.8
7	1/15/2025	6:00 PM	7:00 PM	1:00	60.9	76.2	44.2	68.9	68.0	66.4	65.5	65.0	62.0	56.8	50.8	49.4	47.2
8	1/15/2025	7:00 PM	8:00 PM	1:00	59.7	78.4	45.0	68.4	66.7	65.1	64.0	63.5	59.0	54.0	49.7	48.7	46.8
9	1/15/2025	8:00 PM	9:00 PM	1:00	59.1	70.8	45.0	66.9	66.0	64.9	64.1	63.5	60.0	55.4	50.7	49.6	47.4
10	1/15/2025	9:00 PM	10:00 PM	1:00	57.5	72.5	43.1	67.4	66.4	64.4	63.1	62.3	55.7	51.1	47.0	46.0	44.6
11	1/15/2025	10:00 PM	11:00 PM	1:00	55.3	70.7	41.6	66.4	65.2	62.7	60.7	59.7	51.9	48.3	44.6	43.9	42.9
12	1/15/2025	11:00 PM	12:00 AM	1:00	54.6	71.7	41.3	65.7	64.0	61.1	58.8	57.6	52.2	49.4	45.9	45.1	43.8
13	1/16/2025	12:00 AM	1:00 AM	1:00	50.2	69.5	40.6	61.9	58.6	53.6	52.1	51.2	48.9	46.8	43.7	42.9	41.9
14	1/16/2025	1:00 AM	2:00 AM	1:00	49.7	67.7	40.2	61.0	56.1	52.5	51.1	50.7	48.9	46.7	42.8	42.0	41.1
15	1/16/2025	2:00 AM	3:00 AM	1:00	49.2	67.8	40.4	61.1	56.3	51.4	49.9	49.5	47.6	46.1	43.8	43.0	41.5
16	1/16/2025	3:00 AM	4:00 AM	1:00	52.1	71.6	41.6	64.0	60.1	56.0	54.1	53.3	50.3	47.9	44.6	43.7	42.8
17	1/16/2025	4:00 AM	5:00 AM	1:00	57.0	76.3	43.8	68.9	67.2	64.0	60.7	58.5	53.0	50.4	47.3	46.5	44.9
18	1/16/2025	5:00 AM	6:00 AM	1:00	58.8	71.5	46.1	69.0	67.8	65.8	64.2	63.3	56.6	53.5	50.0	49.2	47.8
19	1/16/2025	6:00 AM	7:00 AM	1:00	60.8	72.5	50.0	69.2	68.4	66.9	65.9	65.3	61.4	56.4	52.5	51.9	50.8
20	1/16/2025	7:00 AM	8:00 AM	1:00	64.3	79.2	53.1	70.9	70.2	69.1	68.2	67.7	65.5	62.3	56.3	55.2	54.0
21	1/16/2025	8:00 AM	9:00 AM	1:00	61.6	73.0	52.9	68.6	67.7	66.4	65.5	65.0	62.5	59.4	56.0	55.4	54.3
22	1/16/2025	9:00 AM	10:00 AM	1:00	59.3	73.6	47.1	68.0	66.7	64.9	63.9	63.4	59.8	55.6	49.8	49.0	48.0
23	1/16/2025	10:00 AM	11:00 AM	1:00	56.6	72.1	41.2	66.3	65.1	63.0	61.9	61.2	56.8	49.7	43.6	42.9	42.2
24	1/16/2025	11:00 AM	12:00 PM	1:00	56.9	70.9	40.6	66.1	65.3	63.3	62.1	61.5	57.7	50.7	43.2	42.5	41.6

Project: TCOE- 01.0

User: JR

Location: LT-2

<u>No.</u>	<u>Start Date</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration</u>	<u>Leg</u>	<u>Lmax</u>	<u>Lmin</u>	<u>L1</u>	<u>L2</u>	<u>L5</u>	<u>L8</u>	<u>L10</u>	<u>L25</u>	<u>L50</u>	<u>L90</u>	<u>L95</u>	<u>L99</u>
1	1/15/2025	12:00 PM	1:00 PM	1:00	68.2	95.5	41.6	80.6	77.5	69.7	65.5	64.0	58.7	54.7	48.3	46.6	44.1
2	1/15/2025	1:00 PM	2:00 PM	1:00	59.9	87.9	40.0	66.8	64.9	62.3	61.0	60.4	57.9	54.1	46.4	44.8	41.7
3	1/15/2025	2:00 PM	3:00 PM	1:00	57.6	73.0	39.7	66.5	64.9	62.5	61.4	60.8	58.4	54.9	46.5	43.7	40.9
4	1/15/2025	3:00 PM	4:00 PM	1:00	59.4	79.0	41.1	69.0	66.7	63.8	62.7	62.1	59.6	55.7	48.5	46.3	43.4
5	1/15/2025	4:00 PM	5:00 PM	1:00	63.0	91.4	40.9	69.1	66.3	63.9	62.5	62.0	59.7	56.3	49.5	47.8	44.3
6	1/15/2025	5:00 PM	6:00 PM	1:00	60.8	77.2	44.5	69.1	67.4	65.4	64.4	63.8	61.4	58.6	52.9	51.3	48.6
7	1/15/2025	6:00 PM	7:00 PM	1:00	65.5	93.1	45.4	73.7	71.4	66.6	65.5	65.1	62.2	58.9	52.0	50.5	47.6
8	1/15/2025	7:00 PM	8:00 PM	1:00	61.8	83.4	45.7	70.3	67.5	64.5	63.5	63.0	60.7	57.5	51.2	49.8	47.8
9	1/15/2025	8:00 PM	9:00 PM	1:00	62.2	84.2	44.7	73.0	70.2	66.8	65.2	64.4	61.0	56.9	49.5	47.9	46.0
10	1/15/2025	9:00 PM	10:00 PM	1:00	63.8	92.3	41.9	71.8	68.2	64.7	63.2	62.5	59.1	55.8	48.5	46.6	43.9
11	1/15/2025	10:00 PM	11:00 PM	1:00	57.5	75.3	41.0	68.6	66.0	62.6	61.1	60.3	56.9	53.5	46.3	44.3	42.2
12	1/15/2025	11:00 PM	12:00 AM	1:00	60.0	85.2	40.5	70.5	66.0	61.3	59.7	59.0	55.2	50.6	44.8	43.7	42.3
13	1/16/2025	12:00 AM	1:00 AM	1:00	54.7	80.7	40.0	64.8	62.6	59.3	57.6	56.8	51.5	46.1	42.6	42.0	41.0
14	1/16/2025	1:00 AM	2:00 AM	1:00	52.2	68.9	39.9	63.3	61.6	58.5	56.7	55.8	50.3	45.4	42.0	41.5	40.7
15	1/16/2025	2:00 AM	3:00 AM	1:00	50.0	64.8	40.5	60.2	58.9	56.9	55.0	53.8	47.7	45.1	42.5	42.0	41.3
16	1/16/2025	3:00 AM	4:00 AM	1:00	53.1	74.0	41.1	63.6	61.4	58.7	56.5	55.6	50.4	46.4	43.6	43.1	42.2
17	1/16/2025	4:00 AM	5:00 AM	1:00	56.4	77.2	43.4	66.6	64.2	61.3	59.3	58.4	54.3	49.8	45.8	45.1	44.1
18	1/16/2025	5:00 AM	6:00 AM	1:00	58.0	69.9	45.2	65.3	64.4	63.1	62.2	61.7	59.1	55.4	50.2	48.8	46.5
19	1/16/2025	6:00 AM	7:00 AM	1:00	59.9	78.8	48.6	67.6	66.0	63.7	62.9	62.5	60.2	57.9	52.8	51.7	49.9
20	1/16/2025	7:00 AM	8:00 AM	1:00	61.3	71.7	52.6	67.7	66.7	65.2	64.6	64.2	62.1	59.9	56.5	55.7	54.2
21	1/16/2025	8:00 AM	9:00 AM	1:00	60.3	79.3	52.5	67.3	65.1	63.8	63.0	62.6	60.6	58.7	55.3	54.5	53.5
22	1/16/2025	9:00 AM	10:00 AM	1:00	58.5	76.4	46.4	67.4	65.6	62.9	61.9	61.4	58.8	56.1	51.7	49.9	47.3
23	1/16/2025	10:00 AM	11:00 AM	1:00	58.3	79.7	41.3	68.1	65.5	62.4	61.2	60.8	57.9	54.0	45.9	44.5	42.8
24	1/16/2025	11:00 AM	12:00 PM	1:00	56.6	72.9	39.9	65.9	63.8	61.9	60.7	60.2	57.2	53.1	44.9	43.4	41.5

C O N S T R U C T I O N M O D E L I N G R E S U L T S

TCOE-01.0 - Construction Noise Modeling Attenuation Calculations						
Levels in dBA Leq						
Phase	RCNM Reference Noise Level	Receptor to North - School Campus	Receptor to East - Commercial	Receptor to South - Residential	Receptor to West - Commercial	Receptor to North - Residential
<i>Distance in feet</i>	50	325	200	195	275	200
Demolition	85	69	73	73	70	73
Site Prep	81	65	69	69	66	69
Grading	84	68	72	72	69	72
<i>Distance in feet</i>	50	245	225	480	75	145
Building Construction	79	65	66	59	75	70
Architectural Coating	74	60	61	54	70	65
<i>Distance in feet</i>	50	220	175	180	100	85
Paving	79	66	68	68	73	74
Attenuation calculated through Inverse Square Law: $L_p(R2) = L_p(R1) - 20\log(R2/R1)$						

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/07/2025
Case Description: TCOE-01.0 Building Demolition

**** Receptor #1 ****

Description -----	Land Use -----	Baselines (dBA)		
		Daytime -----	Evening -----	Night -----
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Description -----	Impact Device -----	Usage (%) -----	Equipment -----			
			Spec Lmax (dBA) -----	Actual Lmax (dBA) -----	Receptor Distance (feet) -----	Estimated Shielding (dBA) -----
Concrete Saw	No	20		89.6	50.0	0.0
Excavator	No	40		80.7	50.0	0.0
Dozer	No	40		81.7	50.0	0.0

Results

Equipment -----	Noise Limits (dBA)									Noise Limit Exceedance (dBA)					
	Calculated (dBA) -----		Day -----		Evening -----		Night -----			Day -----		Evening -----		Night -----	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	89.6	82.6	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	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	89.6	84.6	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/07/2025
Case Description: TCOE-01.0 Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50.0	0.0
Dozer	No	40		81.7	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0

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
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	81.7	80.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date:	01/07/2025
Case Description:	TCOE-01.0 Grading

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Results

K-16

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/07/2025
Case Description: TCOE-01.0 Building Construction

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0

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
Crane	80.6	72.6	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	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.6	78.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/07/2025
Case Description: TCOE-01.0 Asphalt Paving

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Roller	No	20		80.0	50.0	0.0
Paver	No	50		77.2	50.0	0.0
Paver	No	50		77.2	50.0	0.0

Results

Equipment	Noise Limits (dBA)									Noise Limit Exceedance (dBA)					
	Calculated (dBA)		Day		Evening		Night			Day		Evening		Night	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Leq
Roller	80.0	73.0	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
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.0	78.6	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

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/07/2025
Case Description: TCOE-01.0 Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Reference Distance at 50 ft	Residential	65.0	60.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	50.0	0.0

		Results													
		Noise Limits (dBA)								Noise Limit Exceedance (dBA)					
		Calculated (dBA)		Day		Evening		Night		Day		Evening		Night	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		77.7	73.7	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		77.7	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TCOE-01.0 - Vibration Damage Attenuation Calculations

Levels, PPV (in/sec)						
	Vibration Reference Level	Receptor - School Campus	Receptor to East - Commercial	Receptor to South - Residential	Receptor to West - Commercial	Receptor to North - Residential
<i>Distance in feet</i>	<i>at 25 feet</i>	<i>45</i>	<i>175</i>	<i>220</i>	<i>160</i>	<i>60</i>
Vibratory Roller	0.21	0.087	0.011	0.008	0.013	0.056
Clam shovel	0.202	0.084	0.011	0.008	0.012	0.054
Hoe Ram	0.089	0.037	0.005	0.003	0.005	0.024
Large Bulldozer	0.089	0.037	0.005	0.003	0.005	0.024
Caisson Drilling	0.089	0.037	0.005	0.003	0.005	0.024
Loaded Trucks	0.076	0.031	0.004	0.003	0.005	0.020
Jackhammer	0.035	0.014	0.002	0.001	0.002	0.009
Small Bulldozer	0.003	0.001	0.000	0.000	0.000	0.001

T R A F F I C M O D E L I N G R E S U L T S

TCOE-01.0 Traffic Noise Summary										
ID	Roadway	From	Segment To	Existing No Project	Existing + Proj No Event	No Event Difference	Existing + Proj +Typical Event	Typical Event Difference	Existing + Proj +Capacity Event	Capacity Event Difference
1	Avenue 264/Liberty Road	the West	Mooney Boulevard	67	67	0.0	67	0.1	67	0.2
2	Avenue 264/Liberty Road	Mooney Boulevard	the East	65	65	0.0	65	0.1	65	0.2
3	Mooney Boulevard/SR-63	the North	Avenue 264	74	74	0.0	74	0.0	74	0.1
4	Mooney Boulevard/SR-63	Avenue 264	the South	74	74	0.0	74	0.0	74	0.1
ID	Roadway	From	Segment To	Future No Project	Future + Proj No Event	No Event With Project	Future + Proj +Typical Event	Typical Event With Project	Future + Proj +Capacity Event	Capacity Event With Project
1	Avenue 264/Liberty Road	the West	Mooney Boulevard	67	67	0.0	67	0.1	68	0.2
2	Avenue 264/Liberty Road	Mooney Boulevard	the East	65	65	0.0	65	0.1	66	0.2
3	Mooney Boulevard/SR-63	the North	Avenue 264	74	74	0.0	74	0.0	75	0.1
4	Mooney Boulevard/SR-63	Avenue 264	the South	74	74	0.0	74	0.0	74	0.1

Traffic Noise Calculator: FHWA 77-108							TCOE-01.0 Existing 2025 Traffic Noise Traffic Conditions																		
		Output																					Auto Inputs		
		dBA at 50 feet		Distance to CNEL Contour																					
ID	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	63.5	66.3	67.0	31	68	146	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,250	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20		
2	61.6	64.4	65.1	24	51	109	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,750	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20		
3	70.7	73.5	74.2	95	205	441	Mooney Boulevard/SR-63	the North	Avenue 264	21,700	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44		
4	70.7	73.5	74.1	94	204	439	Mooney Boulevard/SR-63	Avenue 264	the South	21,500	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44		

Traffic Noise Calculator: FHWA 77-108			TCOE-01.0 Existing Plus Project No Event Traffic Noise Traffic Conditions																				
ID	Output						Inputs															Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour			Roadway		Segment From - To	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance
1	63.5	66.3	67.0	32	68	147	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,290	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20
2	61.6	64.4	65.1	24	51	110	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,770	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20
3	70.7	73.5	74.2	95	205	442	Mooney Boulevard/SR-63	the North	Avenue 264	21,760	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
4	70.7	73.5	74.2	95	204	439	Mooney Boulevard/SR-63	Avenue 264	the South	21,560	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108							TCOE-01.0 Existing Plus Project Plus Typical Event Traffic Noise Traffic Conditions																	
ID	Output			Distance to CNEL Contour			Inputs															Auto Inputs		
	L _{eq 24hr}	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption
1	63.6	66.4	67.1	32	69	148	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,330	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20	
2	61.7	64.5	65.1	24	51	110	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,790	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20	
3	70.7	73.5	74.2	95	206	443	Mooney Boulevard/SR-63	the North	Avenue 264	21,840	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44	
4	70.7	73.5	74.2	95	204	440	Mooney Boulevard/SR-63	Avenue 264	the South	21,640	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44	

Traffic Noise Calculator: FHWA 77-108							TCOE-01.0 Existing Plus Project Plus Capacity Event Traffic Noise Traffic Conditions																
ID	Output			Distance to CNEL Contour			Inputs														Auto Inputs		
	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To	ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption
1	63.7	66.5	67.2	33	70	151	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,470	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20
2	61.8	64.6	65.3	24	52	112	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,860	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20
3	70.8	73.6	74.3	96	207	446	Mooney Boulevard/SR-63	the North	Avenue 264	22,080	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44
4	70.7	73.5	74.2	96	206	444	Mooney Boulevard/SR-63	Avenue 264	the South	21,880	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108						TCOE-01.0 Future 2030 No Project Traffic Noise Traffic Conditions																					
		Output			Distance to CNEL Contour			Inputs															Auto Inputs				
		dBA at 50 feet																									
ID	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance	
1	63.8	66.6	67.3	33	71	153	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,580	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20				
2	61.9	64.7	65.4	25	53	114	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,940	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20				
3	71.0	73.8	74.4	99	213	459	Mooney Boulevard/SR-63	the North	Avenue 264	22,990	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44				
4	70.9	73.7	74.4	98	212	456	Mooney Boulevard/SR-63	Avenue 264	the South	22,790	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44				

Traffic Noise Calculator: FHWA 77-108						TCOE-01.0 Future 2030 Plus Project No Event Traffic Noise Traffic Conditions																					
			Output																								
			dBA at 50 feet			Distance to CNEL Contour			Inputs																	Auto Inputs	
ID	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance	
1	63.9	66.7	67.3	33	72	154	Avenue 264/Liberty Road	the West	Mooney Boulevard			4,620	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20		
2	61.9	64.7	65.4	25	53	115	Avenue 264/Liberty Road	Mooney Boulevard	the East			2,960	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20		
3	71.0	73.8	74.4	99	213	459	Mooney Boulevard/SR-63	the North	Avenue 264			23,050	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44		
4	70.9	73.7	74.4	98	212	457	Mooney Boulevard/SR-63	Avenue 264	the South			22,850	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44		

Traffic Noise Calculator: FHWA 77-108						TCOE-01.0 Future 2030 Plus Project Plus Typical Event Traffic Noise Traffic Conditions																					
			Output																								
			dBA at 50 feet			Distance to CNEL Contour																					
ID	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Receiver	Ground Absorption	Lane Distance	
1	63.9	66.7	67.4	33	72	155	Avenue 264/Liberty Road	the West	Mooney Boulevard	4,660	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20				
2	62.0	64.7	65.4	25	53	115	Avenue 264/Liberty Road	Mooney Boulevard	the East	2,980	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20				
3	71.0	73.8	74.5	99	214	460	Mooney Boulevard/SR-63	the North	Avenue 264	23,130	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44				
4	71.0	73.7	74.4	99	212	458	Mooney Boulevard/SR-63	Avenue 264	the South	22,930	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44				

Traffic Noise Calculator: FHWA 77-108										TCOE-01.0 Future 2030 Plus Project Plus Capacity Event Traffic Noise Traffic Conditions																
		Output									Inputs												Auto Inputs			
		dBA at 50 feet			Distance to CNEL Contour																					
ID	L _{eq} 24hr	L _{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			Segment From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance	
1	64.0	66.8	67.5	34	73	158	Avenue 264/Liberty Road	the West	Mooney Boulevard			4,800	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20	
2	62.1	64.9	65.5	25	54	117	Avenue 264/Liberty Road	Mooney Boulevard	the East			3,050	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	2	Soft	50	0.5	20	
3	71.0	73.8	74.5	100	215	464	Mooney Boulevard/SR-63	the North	Avenue 264			23,370	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44	
4	71.0	73.8	74.5	99	214	461	Mooney Boulevard/SR-63	Avenue 264	the South			23,170	55	0.0%	96.0%	2.5%	1.5%	75.0%	15.0%	10.0%	4	Soft	50	0.5	44	