APPENDIX D

Noise Study

Monitoring Location: Site 1

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
9:29:14	58.4	71.2	46.1
9:30:14	50.1	61.8	46.1
9:31:14	47.0	50.2	44.6
9:32:14	53.6	64.8	45.3
9:33:14	52.7	61.9	45.4
9:34:14	61.2	71.8	45.8
9:35:14	66.0	75.2	48.0
9:36:14	55.8	68.1	45.6
9:37:14	58.7	69.1	45.7
9:38:14	50.0	55.5	46.6
9:39:14	52.4	51.9	47.9

10-minute LAeq **58.6**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
13:40:55	65.9	76.6	61.5
13:41:55	64.4	67.1	62.4
13:42:55	62.9	64.2	61.6
13:43:55	62.5	65.8	60.8
13:44:55	63.3	68.4	59.9
13:45:55	64.4	67.3	62.6
13:46:55	67.0	71.0	64.3
13:47:55	68.6	77.9	64.5
13:48:55	67.6	73.7	63.9
13:49:55	67.2	75.2	62.6
13:50:55	64.7	65.1	64.1

10-minute LAeq **65.8**

Monitoring Location: Site 2

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
9:42:40	55.8	66.3	46.3
9:43:40	54.3	66.9	46.6
9:44:40	57.3	68.5	46.5
9:45:40	53.9	59.0	48.2
9:46:40	57.0	66.8	46.5
9:47:40	49.0	51.2	47.5
9:48:40	53.1	64.8	47.7
9:49:40	54.7	67.5	48.4
9:50:40	55.0	62.4	48.3
9:51:40	57.0	68.9	49.1
9:52:40	54.4	53.5	50.1

10-minute LAeq **55.2**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
13:51:36	66.5	70.5	64.5
13:52:36	67.1	70.1	65.1
13:53:36	65.8	68.3	63.4
13:54:36	69.6	75.1	66.2
13:55:36	67.8	74.3	65.6
13:56:36	68.5	73.6	65.0
13:57:36	68.7	77.9	66.2
13:58:36	69.2	76.3	64.0
13:59:36	67.7	74.1	65.3
14:00:36	66.5	71.4	64.8
14:01:36	69.4	73.1	65.2

10-minute LAeq **68.1**

Monitoring Location: Site 3

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
10:38:05	57.0	65.0	50.7
10:39:05	64.7	75.4	54.3
10:40:05	60.3	67.9	54.8
10:41:05	56.5	64.2	48.9
10:42:05	56.6	61.7	51.1
10:43:05	54.2	59.4	48.9
10:44:05	53.7	59.0	48.6
10:45:05	53.1	61.5	48.3
10:46:05	52.7	60.1	47.5
10:47:05	50.8	55.6	47.7
10:48:05	48.8	48.7	48.3

10-minute LAeq **57.7**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
14:21:31	63.1	65.1	60.7
14:22:31	64.6	67.6	62.4
14:23:31	64.1	66.2	61.9
14:24:31	64.0	67.4	61.2
14:25:31	63.5	65.6	61.3
14:26:31	63.9	65.9	62.5
14:27:31	63.0	66.2	61.8
14:28:31	63.0	66.1	61.8
14:29:31	65.5	69.6	62.5
14:30:31	65.9	68.9	62.7
14:31:31	63.7	63.9	63.4

10-minute LAeq **64.1**

Monitoring Location: Site 4

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
9:59:51	66.9	74.4	46.1
10:00:51	59.1	68.1	44.8
10:01:51	61.0	69.0	47.8
10:02:51	56.4	66.1	43.4
10:03:51	54.5	64.5	43.9
10:04:51	62.1	71.3	49.2
10:05:51	55.3	65.5	45.0
10:06:51	62.7	71.0	45.7
10:07:51	62.1	72.9	46.7
10:08:51	61.5	70.5	48.3
10:09:51	64.4	67.1	65.4

10-minute LAeq **62.0**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
14:07:04	64.6	71.9	58.9
14:08:04	65.9	71.6	60.8
14:09:04	68.2	75.1	61.3
14:10:04	66.4	71.9	61.2
14:11:04	69.2	82.4	59.9
14:12:04	66.2	72.4	61.3
14:13:04	67.2	73.2	59.8
14:14:04	62.4	70.0	59.9
14:15:04	64.7	69.8	59.9
14:16:04	63.4	70.2	60.9
14:17:04	65.0	66.1	62.0

10-minute LAeq **66.2**

Monitoring Location: Site 5

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
10:19:05	61.2	73.3	46.3
10:20:05	60.1	69.6	47.2
10:21:05	60.2	71.6	44.0
10:22:05	59.4	67.2	44.9
10:23:05	58.6	66.1	47.5
10:24:05	63.5	72.4	48.1
10:25:05	50.8	58.9	45.1
10:26:05	61.0	72.1	45.8
10:27:05	59.6	69.7	46.2
10:28:05	60.2	69.3	44.6
10:29:05	61.6	62.8	52.9

10-minute LAeq **60.4**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
14:34:55	60.6	69.9	56.5
14:35:55	65.5	74.4	57.4
14:36:55	63.9	73.1	58.0
14:37:55	63.0	70.7	57.4
14:38:55	60.7	69.0	56.2
14:39:55	65.7	72.2	57.7
14:40:55	59.7	67.8	57.4
14:41:55	65.5	72.3	58.4
14:42:55	61.4	67.8	57.9
14:43:55	66.7	72.8	59.3
14:44:55	67.6	68.0	66.9

10-minute LAeq **64.4**

Monitoring Location: Site 6

Monitoring Date: 5/31/2022

Monitoring Period

Time	LAeq	LASmax	LASmin
10:54:26	60.9	66.1	56.6
10:55:26	61.9	68.6	56.7
10:56:26	63.2	68.4	59.4
10:57:26	61.9	68.5	57.9
10:58:26	62.5	70.1	57.8
10:59:26	62.5	70.7	58.0
11:00:26	62.6	70.5	58.2
11:01:26	61.7	66.3	56.8
11:02:26	60.7	66.1	56.5
11:03:26	60.7	63.8	58.1
11:04:26	61.2	61.2	59.0

10-minute LAeq **61.9**

Monitoring Date: 3/1/2023

Time	LAeq	LASmax	LASmin
14:48:44	71.3	76.1	68.5
14:49:44	70.3	73.0	68.6
14:50:44	69.8	71.8	68.2
14:51:44	70.4	75.5	66.7
14:52:44	71.1	74.0	68.9
14:53:44	70.3	74.2	68.1
14:54:44	71.3	73.1	69.6
14:55:44	71.3	73.6	68.6
14:56:44	70.8	78.7	64.8
14:57:44	69.3	73.2	67.0
14:58:44	68.2	68.6	67.9

10-minute LAeq **70.5**

Demolition

Receiver	Leq-8Hour/dB(A)	Source	Source type	Time slice	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	l or A m,m²	KI dB	KT dB	Ko dB	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB(A)	Ls dB(A)	dLw dB	Cmet dB	ZR dB	Lr dB(A)
Site 1	76.2	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	138.69	-53.8	-3.9	-0.5	-0.2		0	0.1	76.5	-0.3	0	0	76.2
Site 2	84.7	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	68.54	-47.7	-1.6	0	-0.1		0	0	85.6	-0.3	0	0	85.2
Site 3	76.4	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	124.58	-52.9	-3.9	-3	-0.2		0	1.9	76.8	-0.3	0	0	76.4
Site 4	63.7	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	163.61	-55.3	-4.2	-11.5	-0.3		0	0.5	64.1	-0.3	0	0	63.7
Site 5	65.4	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	260.44	-59.3	-4.5	-4.9	-0.5		0	0.1	65.8	-0.3	0	0	65.4
Site 6	64.1	Demolition	Area	Leq-8hour			86.4	131.9	35709.8	0	0	3	312.37	-60.9	-4.6	-4.6	-0.6		0	0.2	64.4	-0.3	0	0	64.1

Grading

Receiver	Leq-8Hour/dB(A)	Source	Source type	Time slice	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	l or A m,m²	Kl dB	KT dB	Ko dB	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB(A)	Ls dB(A)	dLw dB	Cmet dB	ZR dB	Lr dB(A)
Site 1	76.4	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	147.69	-54.4	-4.1	-0.2	-0.3		0	0.1	76.8	-0.3	0	0	76.4
Site 2	81.6	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	87.64	-49.8	-2.8	0	-0.1		0	0	82.9	-0.3	0	0	82.6
Site 3	76.8	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	125.57	-53	-3.9	-3.3	-0.2		0	2	77.2	-0.3	0	0	76.8
Site 4	64.2	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	172.65	-55.7	-4.3	-11	-0.3		0	0.3	64.6	-0.3	0	0	64.2
Site 5	66.3	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	263.24	-59.4	-4.5	-4.6	-0.5		0	0.1	66.6	-0.3	0	0	66.3
Site 6	64.9	Grading	Area	Leq-8hour			87.3	132.6	33797.9	0	0	3	316.78	-61	-4.6	-4.4	-0.6		0	0.2	65.2	-0.3	0	0	64.9

Building Construction

Receiver	Leq-8Hour/dB(A)	Source	Source type	Time slice	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	l or A m,m²	Kl dB	KT dB	Ko dB	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	Ls dB(A)	dLw dB	Cmet dB	ZR dB	Lr dB(A)
Site 1	77.3	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	184.2	-56.3	-4.4	-0.7	-0.4		0	0.3	70.9	-0.3	0	0	70.5
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	103.91	-51.3	-3.8	-0.1	-0.2		0	0	76.1	-0.3	0	0	75.8
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	219.22	-57.8	-4.5	0	-0.4		0	0	67.2	-0.3	0	0	66.8
Site 2	83.3	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	142.78	-54.1	-4.2	0	-0.3		0	0.2	73.9	-0.3	0	0	81.9
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	63.4	-47	-2.1	0	-0.1		0	0.1	82.3	-0.3	0	0	77.3
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	194.82	-56.8	-4.5	0	-0.4		0	0	68.3	-0.3	0	0	68.2
Site 3	77.8	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	90.12	-50.1	-3.8	-3.2	-0.2		0	1.9	77.1	-0.3	0	0	76.8
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	177.41	-56	-4.4	-4.4	-0.3		0	2.2	68.7	-0.3	0	0	68.3
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	207.58	-57.3	-4.5	-2.6	-0.4		0	2.6	67.8	-0.3	0	0	67.5
Site 4	64.8	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	146.06	-54.3	-4.2	-10.9	-0.3		0	0.4	63	-0.3	0	0	62.7
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	168.97	-55.5	-4.3	-12	-0.3		0	0	59.4	-0.3	0	0	59
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	262.74	-59.4	-4.5	-9.6	-0.5		0	0	55.9	-0.3	0	0	55.5
Site 5	66.8	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	218.4	-57.8	-4.4	-6.4	-0.4		0	0.1	63.4	-0.3	0	0	63.1
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	294.94	-60.4	-4.5	-3.5	-0.6		0	0	62.5	-0.3	0	0	62.2
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	336.17	-61.5	-4.6	-2.3	-0.7		0	0.1	60.9	-0.3	0	0	60.6
Site 6	65.5	Building Construction	Area	Leq-8hour			88.8	129.3	11304.2	0	0	3	348.49	-61.8	-4.6	-2.3	-0.7		0	0.5	63.4	-0.3	0	0	63.1
		Building Construction	Area	Leq-8hour			88.8	128.5	9307.7	0	0	3	265.76	-59.5	-4.5	-6.5	-0.5		0	0	60.5	-0.3	0	0	60.1
		Building Construction	Area	Leq-8hour			88.8	126.9	6482.5	0	0	3	353.34	-62	-4.6	-5.4	-0.7		0	0.1	57.3	-0.3	0	0	57

Paving

Receiver	Leq-8Hour/dB(A)	Source	Source type	Time slice	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	l or A m,m²	KI dB	KT dB	Ko dB	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB(A)	Ls dB(A)	dLw dB	Cmet dB	ZR dB	Lr dB(A)
Site 1	65.2	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	126.82	-53.1	-3.7	-1.4	-0.2		0	0	65.5	-0.3	0	0	65.2
Site 2	78.7	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	50.37	-45	-0.6	0	0		0	0	78.2	-0.3	0	0	78.7
Site 3	73.7	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	62.75	-46.9	-1.5	-2.9	-0.1		0	1.5	74	-0.3	0	0	73.7
Site 4	53.6	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	130.08	-53.3	-4	-13.1	-0.3		0	0.8	53.9	-0.3	0	0	53.6
Site 5	54	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	218.72	-57.8	-4.4	-7.2	-0.5		0	0.4	54.4	-0.3	0	0	54
Site 6	52.3	Paving	Area	Leq-8hour			81.6	120.8	8387.8	0	0	3	308.36	-60.8	-4.6	-5.3	-0.6		0	0.1	52.6	-0.3	0	0	52.3

Architectural Coating

Receiver	Leq-8Hour/dB(A)	Source	Source type	Time slice	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	l or A m,m²	Kl dB	KT dB	Ko dB	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADl dB	dLrefl dB(A)	Ls dB(A)	dLw dB	Cmet dB	ZR dB	Lr dB(A)
Site 1	61.5	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	184.2	-56.3	-4.4	-0.7	-0.4		0	0.3	55.1	-0.3	0	0	54.7
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	103.91	-51.3	-3.8	-0.1	-0.2		0	0	60.3	-0.3	0	0	60
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	219.22	-57.8	-4.5	0	-0.4		0	0	51.4	-0.3	0	0	51
Site 2	67.5	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	142.78	-54.1	-4.2	0	-0.3		0	0.2	58.1	-0.3	0	0	66.1
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	63.4	-47	-2.1	0	-0.1		0	0.1	66.5	-0.3	0	0	61.5
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	194.82	-56.8	-4.5	0	-0.4		0	0	52.5	-0.3	0	0	52.4
Site 3	62	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	90.12	-50.1	-3.8	-3.2	-0.2		0	1.9	61.3	-0.3	0	0	61
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	177.41	-56	-4.4	-4.4	-0.3		0	2.2	52.9	-0.3	0	0	52.5
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	207.58	-57.3	-4.5	-2.6	-0.4		0	2.6	52	-0.3	0	0	51.7
Site 4	49	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	146.06	-54.3	-4.2	-10.9	-0.3		0	0.4	47.2	-0.3	0	0	46.9
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	168.97	-55.5	-4.3	-12	-0.3		0	0	43.6	-0.3	0	0	43.2
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	262.74	-59.4	-4.5	-9.6	-0.5		0	0	40.1	-0.3	0	0	39.7
Site 5	51	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	218.4	-57.8	-4.4	-6.4	-0.4		0	0.1	47.6	-0.3	0	0	47.3
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	294.94	-60.4	-4.5	-3.5	-0.6		0	0	46.7	-0.3	0	0	46.4
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	336.17	-61.5	-4.6	-2.3	-0.7		0	0.1	45.1	-0.3	0	0	44.8
Site 6	49.7	Architectural Coating	Area	Leq-8hour			73	113.5	11304.2	0	0	3	348.49	-61.8	-4.6	-2.3	-0.7		0	0.5	47.6	-0.3	0	0	47.3
		Architectural Coating	Area	Leq-8hour			73	112.7	9307.7	0	0	3	265.76	-59.5	-4.5	-6.5	-0.5		0	0	44.7	-0.3	0	0	44.3
		Architectural Coating	Area	Leq-8hour			73	111.1	6482.5	0	0	3	353.34	-62	-4.6	-5.4	-0.7		0	0.1	41.5	-0.3	0	0	41.2

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/4/2021
Case Description Demolition

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Residential	Residential	65	65	65

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	25	0
Excavator	No	40		80.7	25	0
Excavator	No	40		80.7	25	0
Excavator	No	40		80.7	25	0
Dozer	No	40		81.7	25	0
Dozer	No	40		81.7	25	0

Calculated (dBA)

Equipment		*Lmax	Leq
Concrete Saw		95.6	88.6
Excavator		86.7	82.8
Excavator		86.7	82.8
Excavator		86.7	82.8
Dozer		87.7	83.7
Dozer		87.7	83.7
	Total	95.6	92.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/4/2021
Case Description: Grading

				---- Receptor #1 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Residential	Residential	65	65	65			

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	25	0
Grader	No	40	85		25	0
Dozer	No	40		81.7	25	0
Tractor	No	40	84		25	0
Tractor	No	40	84		25	0
Tractor	No	40	84		25	0

		Calculated (dBA)	
Equipment		*Lmax	Leq
Excavator		86.7	82.8
Grader		91	87
Dozer		87.7	83.7
Tractor		90	86
Tractor		90	86
Tractor		90	86
	Total	91	93.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/4/2021
Case Descriptio Building Construction

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential	Residential	65	65	65

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	25	0
Forklift	No	40		85	25	0
Forklift	No	40		85	25	0
Forklift	No	40		85	25	0
Generator	No	50		80.6	25	0
Tractor	No	40	84		25	0
Backhoe	No	40		77.6	25	0
Front End Loader	No	40		79.1	25	0
Welder / Torch	No	40		74	25	0

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	86.6	78.6
Forklift	91	87
Forklift	91	87
Forklift	91	87
Generator	86.7	83.6
Tractor	90	86
Backhoe	83.6	79.6
Front End Loader	85.1	81.2
Welder / Torch	80	76
Total	91	94

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/4/2021
Case Description: Paving

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Residential	Residential	65	65	65	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	25	0
Paver	No	50		77.2	25	0
Paver	No	50		77.2	25	0
Paver	No	50		77.2	25	0
Roller	No	20		80	25	0
Roller	No	20		80	25	0

Calculated (dBA)

Equipment		*Lmax	Leq
Paver		83.2	80.2
Paver		83.2	80.2
Paver		83.2	80.2
Paver		83.2	80.2
Roller		86	79
Roller		86	79
	Total	86	87.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/4/2021
Case Description: Architectural Coating

				---- Receptor #1 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Residential	Residential	65	65	65			

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	25	0

		Calculated (dBA)	
Equipment		*Lmax	Leq
Compressor (air)		83.7	79.7
	Total	83.7	79.7

*Calculated Lmax is the Loudest value.

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(75 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	75	0.017	0.004	73
Jackhammer		1	0.035	75	0.007	0.002	65
Large bulldozer		1	0.089	75	0.017	0.004	73
Loaded trucks		1	0.076	75	0.015	0.004	71
Pile Drive (impact)		1	0.644	75	0.124	0.031	90
Vibratory Roller		1	0.210	75	0.040	0.010	80
Small bulldozer		1	0.003	75	0.001	0.000	43

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(55 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	55	0.027	0.007	77
Jackhammer		1	0.035	55	0.011	0.003	69
Large bulldozer		1	0.089	55	0.027	0.007	77
Loaded trucks		1	0.076	55	0.023	0.006	75
Pile Drive (impact)		1	0.644	55	0.197	0.049	94
Vibratory Roller		1	0.210	55	0.064	0.016	84
Small bulldozer		1	0.003	55	0.001	0.000	47

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(145 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	145	0.006	0.002	64
Jackhammer		1	0.035	145	0.003	0.001	56
Large bulldozer		1	0.089	145	0.006	0.002	64
Loaded trucks		1	0.076	145	0.005	0.001	63
Pile Drive (impact)		1	0.644	145	0.046	0.012	81
Vibratory Roller		1	0.210	145	0.015	0.004	72
Small bulldozer		1	0.003	145	0.000	0.000	35

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(285 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	285	0.002	0.001	55
Jackhammer		1	0.035	285	0.001	0.000	47
Large bulldozer		1	0.089	285	0.002	0.001	55
Loaded trucks		1	0.076	285	0.002	0.000	54
Pile Drive (impact)		1	0.644	285	0.017	0.004	72
Vibratory Roller		1	0.210	285	0.005	0.001	63
Small bulldozer		1	0.003	285	0.000	0.000	26

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(555 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	555	0.001	0.000	47
Jackhammer		1	0.035	555	0.000	0.000	38
Large bulldozer		1	0.089	555	0.001	0.000	47
Loaded trucks		1	0.076	555	0.001	0.000	45
Pile Drive (impact)		1	0.644	555	0.006	0.002	64
Vibratory Roller		1	0.210	555	0.002	0.001	54
Small bulldozer		1	0.003	555	0.000	0.000	17

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Meridian Consultants LLC

5426 San Fernando Studios
Construction Vibration Model
(670 feet)

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance[a]	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	670	0.001	0.000	44
Jackhammer		1	0.035	670	0.000	0.000	36
Large bulldozer		1	0.089	670	0.001	0.000	44
Loaded trucks		1	0.076	670	0.001	0.000	43
Pile Drive (impact)		1	0.644	670	0.005	0.001	61
Vibratory Roller		1	0.210	670	0.002	0.000	52
Small bulldozer		1	0.003	670	0.000	0.000	15

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**