

①

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A" and generally response time should be set to "fast." For additional information, please review the *Noise Measurement Protocol* in the pelican case.

Project Name: Freedom Blvd **Job Number:** _____
Date: 7/1/2022 **Operator Name:** KC

Measurement #1

Location: 1 **Begin time:** 7:47 **Finish time:** 8:02
Measurement No.: 1 **Wind (mph):** 0 **Direction:** -
Cloud Cover Class: Overcast (>80%) **Light (20-80%)** **Sunny (<20%)**
Calibration (dB): Start: 94.3 End: 94.4
Primary Noise Sources: traffic on Freedom **Distance:** 10 ft
Secondary Noise Sources: -
Notes: nothing going on noise wise except traffic

Traffic Count: Passenger Cars: 295
 Medium to Heavy Duty Trucks (3 axles): 4 Heavy Duty Trucks (4+ axles): 2

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): -
Leq: 70 **SEL:** 99.5 **Lmax:** 80.2 **Lmin:** 51.6 **PK:** 97.4
L(05): 76.4 **L(10):** 75.1 **L(50):** 68.9 **L(90):** 60.8 **L(95):** 58.9
Response: Slow **Fast** **Peak** **Impulse**

Measurement #2

Location: 2 **Begin time:** 8:15 **Finish time:** 8:30
Measurement No.: 2 **Wind (mph):** 0 **Direction:** -
Cloud Cover Class: Overcast (>80%) **Light (20-80%)** **Sunny (<20%)**
Calibration (dB): Start: 94.3 End: 94.3
Primary Noise Sources: traffic on Freedom **Distance:** 20 ft
Secondary Noise Sources: ~~crosswalk~~ crosswalk announcements/beeping
Notes: _____

Traffic Count: Passenger Cars: _____
 Medium to Heavy Duty Trucks (3 axles): 3 Heavy Duty Trucks (4+ axles): 2

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): bus brake ~ 8:18
Leq: 70.0 **SEL:** 99.5 **Lmax:** 82.2 **Lmin:** 53.6 **PK:** 101.6
L(05): 74.6 **L(10):** 73.6 **L(50):** 67.8 **L(90):** 58.4 **L(95):** 56.7
Response: Slow **Fast** **Peak** **Impulse**

2

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A" and generally response time should be set to "fast." For additional information, please review the *Noise Measurement Protocol* in the pelican case.

Project Name: Freedom Blvd Job Number: _____
 Date: 7/1/2022 Operator Name: KC

Measurement #1

Location: 3 Begin time: 8:36 Finish time: 8:51
 Measurement No.: 3 Wind (mph): 0 Direction: _____
 Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
 Calibration (dB): Start: 94.3 End: 94.3
 Primary Noise Sources: traffic, idling trucks Distance: 20-200 ft
 Secondary Noise Sources: truck reverse beeps occasionally across street
 Notes: loud truck w/ trailer ~ 8:41 drove by

Traffic Count: Passenger Cars: 56 Heavy Duty Trucks (4+ axles): _____
 Medium to Heavy Duty Trucks (3 axles): 1
 Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): airbrake/horn @ 8:40
 Leq: 60.9 SEL: 90.4 Lmax: 76.5 Lmin: 47.9 PK: 95.6
 L(05): 64.3 L(10): 63.0 L(50): 57.9 L(90): 52.2 L(95): 50.9
 Response: Slow Fast Peak Impulse

Measurement #2

Location: 4 Begin time: 8:55 Finish time: ~~9:10~~ 9:10
 Measurement No.: 4 Wind (mph): 0 Direction: _____
 Cloud Cover Class: Overcast (>80%) Light (20-80%) Sunny (<20%)
 Calibration (dB): Start: 94.5 End: 94.4
 Primary Noise Sources: cars, open/close gate Distance: 50 ft
 Secondary Noise Sources: _____
 Notes: _____

Traffic Count: Passenger Cars: 8 Heavy Duty Trucks (4+ axles): _____
 Medium to Heavy Duty Trucks (3 axles): _____
 Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____
 Leq: 51.8 SEL: 81.3 Lmax: 71.3 Lmin: 40.3 PK: 93.3
 L(05): 55.7 L(10): 53.9 L(50): 45.3 L(90): 41.8 L(95): 41.3
 Response: Slow Fast Peak Impulse

3

Ambient Noise Survey Data Sheet

Instructions: Document noise measurement locations with a photo of the site, including the noise meter. Additionally, take notes on general and secondary noise sources, including the instantaneous noise level if possible. As a reminder, A/C weighting should be set to "A" and generally response time should be set to "fast." For additional information, please review the *Noise Measurement Protocol* in the pelican case.

Project Name: Free Jam Blvd **Job Number:** _____
Date: 7/1/2022 **Operator Name:** KL

Measurement #1

Location: S **Begin time:** 9:16 **Finish time:** 9:31
Measurement No.: S **Wind (mph):** Ø **Direction:** -
Cloud Cover Class: Overcast (>80%) **Light (20-80%)** **Sunny (<20%)**
Calibration (dB): Start: 94.5 End: 94.5
Primary Noise Sources: talking, parking lot **Distance:** 100-200ft
Secondary Noise Sources: _____
Notes: voices outside surrounding buildings, cars parking in lot

Traffic Count: Passenger Cars: -
 Medium to Heavy Duty Trucks (3 axles): - Heavy Duty Trucks (4+ axles): -

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____
Leq: 48.8 **SEL:** 78.3 **Lmax:** 64.0 **Lmin:** 41.9 **PK:** 90.4
L(05): 49.6 **L(10):** 47.5 **L(50):** 44.7 **L(90):** 43.2 **L(95):** 42.8
Response: Slow Fast Peak Impulse

Measurement #2

Location: _____ **Begin time:** _____ **Finish time:** _____
Measurement No.: _____ **Wind (mph):** _____ **Direction:** _____
Cloud Cover Class: Overcast (>80%) **Light (20-80%)** **Sunny (<20%)**
Calibration (dB): Start: _____ End: _____
Primary Noise Sources: _____ **Distance:** _____
Secondary Noise Sources: _____
Notes: _____

Traffic Count: Passenger Cars: _____
 Medium to Heavy Duty Trucks (3 axles): _____ Heavy Duty Trucks (4+ axles): _____

Instantaneous Noise Sources/Levels (e.g., airplane, bus airbrake, etc.): _____
Leq: _____ **SEL:** _____ **Lmax:** _____ **Lmin:** _____ **PK:** _____
L(05): _____ **L(10):** _____ **L(50):** _____ **L(90):** _____ **L(95):** _____
Response: Slow Fast Peak Impulse

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 80.2 - 2022/07/01 07:56:27
 Level Range : 40-100
 SEL : 99.5
 Leq : 70.0

No. s	Date Time	(dB)				
1	2022/07/01 07:49:16	60.8	69.0	74.7	65.2	55.2
6	2022/07/01 07:49:31	51.7	53.4	61.3	75.7	68.1
11	2022/07/01 07:49:46	62.7	62.8	64.3	62.1	67.7
16	2022/07/01 07:50:01	72.9	70.5	67.2	69.9	72.2
21	2022/07/01 07:50:16	76.3	73.5	73.3	70.7	74.3
26	2022/07/01 07:50:31	68.3	70.0	64.9	63.4	73.5
31	2022/07/01 07:50:46	78.2	71.7	68.9	75.8	70.2
36	2022/07/01 07:51:01	69.5	70.8	69.2	70.4	63.3
41	2022/07/01 07:51:16	61.8	64.9	62.6	69.1	62.9
46	2022/07/01 07:51:31	64.0	71.3	70.7	71.5	63.1
51	2022/07/01 07:51:46	58.9	59.6	61.4	61.5	66.0
56	2022/07/01 07:52:01	66.3	62.4	63.6	64.5	68.2
61	2022/07/01 07:52:16	78.9	76.9	72.1	68.6	68.7
66	2022/07/01 07:52:31	65.6	67.2	70.1	68.7	76.4
71	2022/07/01 07:52:46	78.0	79.7	74.2	74.8	70.2
76	2022/07/01 07:53:01	66.0	74.4	75.3	71.0	75.5
81	2022/07/01 07:53:16	72.7	71.2	63.6	59.1	64.5
86	2022/07/01 07:53:31	74.6	67.9	73.4	68.0	64.4
91	2022/07/01 07:53:46	64.8	64.3	64.5	62.2	62.6
96	2022/07/01 07:54:01	60.8	58.9	60.9	72.9	69.0
101	2022/07/01 07:54:16	74.0	74.2	71.0	72.9	70.9
106	2022/07/01 07:54:31	68.8	69.3	67.9	68.5	69.5
111	2022/07/01 07:54:46	79.8	77.7	77.0	75.0	70.1
116	2022/07/01 07:55:01	71.7	73.3	72.7	66.6	71.4
121	2022/07/01 07:55:16	69.9	61.7	67.6	68.6	62.6
126	2022/07/01 07:55:31	61.1	57.8	62.7	61.1	58.7
131	2022/07/01 07:55:46	56.4	59.0	63.4	68.2	68.1
136	2022/07/01 07:56:01	68.3	71.5	71.1	68.8	67.7
141	2022/07/01 07:56:16	70.4	76.4	76.1	79.8	72.2
146	2022/07/01 07:56:31	69.4	72.8	78.9	71.9	70.0
151	2022/07/01 07:56:46	71.1	67.2	76.3	67.9	69.4
156	2022/07/01 07:57:01	62.9	62.0	66.5	60.5	65.8
161	2022/07/01 07:57:16	70.2	67.3	73.5	67.4	64.4
166	2022/07/01 07:57:31	71.1	64.8	72.8	74.9	70.9
171	2022/07/01 07:57:46	67.2	64.8	63.0	67.3	64.8
176	2022/07/01 07:58:01	66.6	76.0	72.8	73.9	76.4
181	2022/07/01 07:58:16	76.9	75.4	71.2	73.0	75.7
186	2022/07/01 07:58:31	71.3	74.2	74.1	74.8	78.2
191	2022/07/01 07:58:46	74.9	74.7	71.0	68.6	74.2
196	2022/07/01 07:59:01	68.1	72.5	74.7	69.6	70.9
201	2022/07/01 07:59:16	72.9	63.2	61.5	69.9	67.4
206	2022/07/01 07:59:31	68.0	70.0	68.8	62.0	59.4
211	2022/07/01 07:59:46	60.3	63.0	74.7	69.1	67.9
216	2022/07/01 08:00:01	71.1	72.8	68.5	67.8	68.9
221	2022/07/01 08:00:16	69.6	72.6	74.2	71.5	67.5
226	2022/07/01 08:00:31	69.4	64.6	75.2	71.2	69.2
231	2022/07/01 08:00:46	67.4	62.1	67.3	64.3	60.9
236	2022/07/01 08:01:01	57.9	56.0	62.4	71.9	67.7
241	2022/07/01 08:01:16	68.5	61.9	60.4	68.4	72.9
246	2022/07/01 08:01:31	76.6	75.1	74.8	73.4	71.2
251	2022/07/01 08:01:46	70.6	71.8	67.9	68.9	74.0
256	2022/07/01 08:02:01	73.0	70.5	62.8	64.6	73.5
261	2022/07/01 08:02:16	65.4	65.5	73.3	71.7	75.4
266	2022/07/01 08:02:31	70.4	69.0	67.4	61.7	57.7
271	2022/07/01 08:02:46	56.8	59.5	61.2	59.6	60.8
276	2022/07/01 08:03:01	66.6	69.1	70.0	65.7	61.4
281	2022/07/01 08:03:16	58.8	59.0	69.5	72.2	69.0
286	2022/07/01 08:03:31	71.1	76.9	75.0	76.6	75.6
291	2022/07/01 08:03:46	70.3	69.6	69.2	69.5	67.8
296	2022/07/01 08:04:01	66.6	67.5	68.8	66.9	68.2

Freq Weight : A
 Time weight : SLOW
 Level Range : 40-100
 Max dB : 82.2 - 2022/07/01 08:15:22
 Level Range : 40-100
 SEL : 99.5
 Leq : 70.0

No.s	Date Time	(dB)					
1	2022/07/01 08:14:47	59.2	59.6	67.6	71.7	69.4	
6	2022/07/01 08:15:02	71.0	71.2	69.0	78.5	75.5	
11	2022/07/01 08:15:17	73.8	81.8	74.2	68.5	70.6	
16	2022/07/01 08:15:32	69.1	64.8	64.3	66.3	68.0	
21	2022/07/01 08:15:47	68.4	66.0	67.2	69.4	74.5	
26	2022/07/01 08:16:02	72.0	73.4	72.9	73.3	75.5	
31	2022/07/01 08:16:17	73.9	67.1	65.7	63.2	63.9	
36	2022/07/01 08:16:32	62.8	62.4	62.8	62.3	60.4	
41	2022/07/01 08:16:47	65.4	69.4	71.4	67.1	66.1	
46	2022/07/01 08:17:02	69.0	71.1	71.9	71.8	69.2	
51	2022/07/01 08:17:17	69.2	71.1	64.3	60.7	63.6	
56	2022/07/01 08:17:32	73.3	79.0	72.3	66.8	76.5	
61	2022/07/01 08:17:47	77.6	71.8	74.1	69.3	68.4	
66	2022/07/01 08:18:02	63.7	59.1	57.6	57.7	56.3	
71	2022/07/01 08:18:17	57.5	61.2	71.6	73.9	71.3	
76	2022/07/01 08:18:32	71.2	71.0	73.9	74.4	73.1	
81	2022/07/01 08:18:47	72.7	73.3	71.7	76.0	72.6	
86	2022/07/01 08:19:02	70.9	63.1	62.7	65.4	65.0	
91	2022/07/01 08:19:17	61.5	59.4	69.4	63.4	62.2	
96	2022/07/01 08:19:32	60.0	60.2	67.2	64.6	68.2	
101	2022/07/01 08:19:47	65.4	63.0	61.1	58.2	60.0	
106	2022/07/01 08:20:02	62.5	63.2	64.9	71.1	77.8	
111	2022/07/01 08:20:17	76.1	72.1	74.8	71.9	71.5	
116	2022/07/01 08:20:32	70.9	69.3	71.8	71.9	74.8	
121	2022/07/01 08:20:47	72.7	73.1	72.9	71.7	70.5	
126	2022/07/01 08:21:02	70.2	66.1	65.0	63.6	66.1	
131	2022/07/01 08:21:17	66.1	64.4	61.9	58.2	60.6	
136	2022/07/01 08:21:32	62.0	60.0	61.2	65.1	66.7	
141	2022/07/01 08:21:47	66.7	71.4	74.8	72.0	66.6	
146	2022/07/01 08:22:02	62.7	59.8	62.7	67.3	67.0	
151	2022/07/01 08:22:17	62.1	58.8	65.1	65.6	67.6	
156	2022/07/01 08:22:32	63.2	59.3	64.6	69.7	71.3	
161	2022/07/01 08:22:47	73.5	73.3	72.8	66.2	62.8	
166	2022/07/01 08:23:02	69.2	71.8	67.9	64.2	61.7	
171	2022/07/01 08:23:17	70.5	62.1	57.1	54.8	53.8	
176	2022/07/01 08:23:32	56.4	56.2	61.8	73.8	75.0	
181	2022/07/01 08:23:47	73.9	72.8	71.2	69.9	69.9	
186	2022/07/01 08:24:02	73.9	70.8	73.9	68.1	63.5	
191	2022/07/01 08:24:17	61.4	70.5	71.0	65.5	62.6	
196	2022/07/01 08:24:32	60.5	56.7	54.4	55.7	57.2	
201	2022/07/01 08:24:47	56.4	59.2	69.0	70.9	66.7	
206	2022/07/01 08:25:02	61.9	62.3	61.0	60.2	59.0	
211	2022/07/01 08:25:17	58.8	59.1	65.9	71.3	73.8	
216	2022/07/01 08:25:32	73.2	74.3	73.2	71.9	71.4	
221	2022/07/01 08:25:47	71.1	68.1	69.9	76.9	72.4	
226	2022/07/01 08:26:02	72.8	71.3	61.0	54.2	54.9	
231	2022/07/01 08:26:17	56.7	58.3	60.1	60.4	57.1	
236	2022/07/01 08:26:32	57.9	58.4	59.2	65.2	68.0	
241	2022/07/01 08:26:47	68.1	68.2	69.0	66.5	60.2	
246	2022/07/01 08:27:02	61.6	68.9	71.7	72.6	69.7	
251	2022/07/01 08:27:17	70.1	70.3	68.1	65.9	70.1	
256	2022/07/01 08:27:32	70.1	65.0	60.8	59.0	62.3	
261	2022/07/01 08:27:47	65.5	67.7	60.5	57.2	56.4	
266	2022/07/01 08:28:02	58.2	59.9	63.7	65.3	67.1	
271	2022/07/01 08:28:17	68.0	67.9	66.4	65.9	69.5	
276	2022/07/01 08:28:32	67.7	73.5	73.6	72.8	70.8	
281	2022/07/01 08:28:47	70.5	66.0	73.4	68.0	71.8	
286	2022/07/01 08:29:02	72.8	71.8	71.3	70.5	71.2	
291	2022/07/01 08:29:17	73.4	73.9	72.5	71.4	69.3	
296	2022/07/01 08:29:32	72.3	75.3	67.2	61.1	56.1	

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 76.5 - 2022/07/01 08:40:11
 Level Range : 40-100
 SEL : 90.4
 Leq : 60.9

No.s	Date Time	(dB)				
1	2022/07/01 08:36:26	59.0	56.0	57.1	54.3	55.6
6	2022/07/01 08:36:41	56.6	55.8	57.6	57.0	58.4
11	2022/07/01 08:36:56	57.3	58.5	59.4	57.0	60.3
16	2022/07/01 08:37:11	60.4	57.8	56.7	57.6	56.8
21	2022/07/01 08:37:26	56.8	55.8	56.1	59.5	59.0
26	2022/07/01 08:37:41	60.3	64.7	65.5	60.5	58.5
31	2022/07/01 08:37:56	63.8	64.6	72.7	61.8	57.2
36	2022/07/01 08:38:11	56.7	57.3	60.4	58.2	58.3
41	2022/07/01 08:38:26	57.5	56.8	56.5	56.8	56.2
46	2022/07/01 08:38:41	56.5	57.5	57.2	57.3	57.4
51	2022/07/01 08:38:56	57.6	57.5	57.6	58.2	59.4
56	2022/07/01 08:39:11	61.1	59.6	60.4	63.4	61.3
61	2022/07/01 08:39:26	58.4	57.6	57.6	58.9	65.2
66	2022/07/01 08:39:41	61.0	59.7	64.0	60.7	57.0
71	2022/07/01 08:39:56	56.7	59.5	57.9	63.0	61.2
76	2022/07/01 08:40:11	66.6	69.7	60.6	62.5	58.5
81	2022/07/01 08:40:26	57.9	57.8	57.6	62.8	61.1
86	2022/07/01 08:40:41	55.9	55.1	54.8	54.1	56.1
91	2022/07/01 08:40:56	59.4	59.0	57.3	55.5	60.5
96	2022/07/01 08:41:11	62.3	66.7	64.9	75.5	70.6
101	2022/07/01 08:41:26	61.8	56.0	53.0	51.2	50.5
106	2022/07/01 08:41:41	51.8	51.2	51.0	50.7	51.1
111	2022/07/01 08:41:56	52.3	57.5	55.8	55.5	59.3
116	2022/07/01 08:42:11	57.8	55.9	52.8	52.3	52.9
121	2022/07/01 08:42:26	56.4	54.4	59.9	61.8	61.0
126	2022/07/01 08:42:41	64.3	59.5	53.7	52.8	55.9
131	2022/07/01 08:42:56	57.4	57.1	57.2	56.9	57.2
136	2022/07/01 08:43:11	59.7	58.9	58.8	63.2	61.4
141	2022/07/01 08:43:26	61.9	61.4	60.2	58.1	57.4
146	2022/07/01 08:43:41	57.8	60.9	60.9	62.5	65.9
151	2022/07/01 08:43:56	65.0	62.3	61.7	62.7	61.1
156	2022/07/01 08:44:11	60.2	59.8	60.2	59.8	58.5
161	2022/07/01 08:44:26	57.9	57.2	58.8	57.5	57.6
166	2022/07/01 08:44:41	58.4	58.0	57.1	56.8	57.1
171	2022/07/01 08:44:56	59.6	58.3	57.5	56.9	56.3
176	2022/07/01 08:45:11	56.2	56.3	56.1	56.7	57.8
181	2022/07/01 08:45:26	58.1	62.8	62.3	59.3	60.7
186	2022/07/01 08:45:41	59.5	61.1	61.7	62.1	62.8
191	2022/07/01 08:45:56	64.4	62.6	61.8	61.6	60.7
196	2022/07/01 08:46:11	60.3	62.9	62.9	63.1	62.8
201	2022/07/01 08:46:26	64.1	59.8	60.1	63.4	60.7
206	2022/07/01 08:46:41	59.2	58.9	58.8	64.8	64.1
211	2022/07/01 08:46:56	62.1	58.5	57.6	57.5	61.1
216	2022/07/01 08:47:11	64.7	61.0	58.3	58.5	53.2
221	2022/07/01 08:47:26	53.1	52.1	51.9	51.9	52.5
226	2022/07/01 08:47:41	52.4	52.3	53.3	53.2	52.9
231	2022/07/01 08:47:56	55.6	54.0	53.2	55.5	59.0
236	2022/07/01 08:48:11	61.5	62.4	61.3	60.1	62.1
241	2022/07/01 08:48:26	59.2	56.5	55.8	53.7	52.8
246	2022/07/01 08:48:41	51.5	51.1	50.3	52.2	53.8
251	2022/07/01 08:48:56	50.9	66.9	66.5	56.4	55.6
256	2022/07/01 08:49:11	50.6	50.4	50.7	51.3	54.0
261	2022/07/01 08:49:26	53.7	53.7	54.2	54.9	56.2
266	2022/07/01 08:49:41	58.3	59.6	63.3	70.4	69.6
271	2022/07/01 08:49:56	63.1	57.9	55.8	61.4	60.4
276	2022/07/01 08:50:11	55.7	53.4	51.5	50.8	50.7
281	2022/07/01 08:50:26	53.0	56.3	60.6	57.7	59.0
286	2022/07/01 08:50:41	57.7	58.9	57.3	55.9	58.2
291	2022/07/01 08:50:56	61.1	58.7	53.4	51.6	50.1
296	2022/07/01 08:51:11	48.6	49.4	51.6	53.6	56.4

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 71.3 - 2022/07/01 09:02:39
 Level Range : 40-100
 SEL : 81.3
 Leq : 51.8

No. s	Date Time	(dB)					
1	2022/07/01 08:56:26	55.6	57.6	55.8	57.2	55.5	
6	2022/07/01 08:56:41	52.6	47.1	44.4	55.6	46.1	
11	2022/07/01 08:56:56	54.3	51.0	52.3	52.6	49.6	
16	2022/07/01 08:57:11	51.0	48.5	46.9	47.7	46.8	
21	2022/07/01 08:57:26	44.9	43.6	43.8	43.3	46.9	
26	2022/07/01 08:57:41	44.2	43.9	44.0	46.1	46.7	
31	2022/07/01 08:57:56	46.7	45.7	43.5	43.5	44.1	
36	2022/07/01 08:58:11	43.9	44.3	44.0	44.4	42.5	
41	2022/07/01 08:58:26	41.9	41.7	43.0	45.6	45.4	
46	2022/07/01 08:58:41	43.1	42.9	44.5	44.8	46.0	
51	2022/07/01 08:58:56	51.4	56.8	50.8	46.1	46.1	
56	2022/07/01 08:59:11	44.8	46.4	46.0	44.2	44.2	
61	2022/07/01 08:59:26	44.7	45.6	49.7	47.0	48.6	
66	2022/07/01 08:59:41	55.6	49.0	44.2	48.3	45.3	
71	2022/07/01 08:59:56	44.6	45.2	45.8	43.6	45.1	
76	2022/07/01 09:00:11	45.5	44.3	42.8	47.3	42.8	
81	2022/07/01 09:00:26	41.9	43.6	43.0	42.2	41.4	
86	2022/07/01 09:00:41	43.6	43.0	41.1	40.4	44.1	
91	2022/07/01 09:00:56	42.6	43.4	41.6	43.0	43.6	
96	2022/07/01 09:01:11	43.9	46.9	42.3	44.8	41.3	
101	2022/07/01 09:01:26	44.3	45.1	46.6	42.1	46.4	
106	2022/07/01 09:01:41	44.1	46.2	45.1	50.1	49.4	
111	2022/07/01 09:01:56	48.9	50.1	51.6	51.7	54.9	
116	2022/07/01 09:02:11	55.1	55.4	54.4	55.2	54.2	
121	2022/07/01 09:02:26	54.0	54.3	61.8	69.0	68.4	
126	2022/07/01 09:02:41	59.5	53.3	56.1	58.1	55.0	
131	2022/07/01 09:02:56	49.0	45.9	50.5	46.6	58.9	
136	2022/07/01 09:03:11	49.0	44.8	46.0	45.5	46.0	
141	2022/07/01 09:03:26	44.8	44.6	45.9	45.1	45.4	
146	2022/07/01 09:03:41	44.6	44.3	44.3	45.0	45.2	
151	2022/07/01 09:03:56	47.8	51.8	52.0	49.9	45.8	
156	2022/07/01 09:04:11	46.3	50.3	47.4	43.1	45.5	
161	2022/07/01 09:04:26	44.4	48.7	47.3	45.9	44.7	
166	2022/07/01 09:04:41	43.0	49.5	43.2	41.7	42.0	
171	2022/07/01 09:04:56	42.4	44.3	44.3	46.4	43.1	
176	2022/07/01 09:05:11	43.9	50.4	56.2	55.7	52.0	
181	2022/07/01 09:05:26	49.5	48.0	47.9	51.8	53.5	
186	2022/07/01 09:05:41	49.6	47.2	45.8	44.8	44.0	
191	2022/07/01 09:05:56	43.9	43.9	42.2	42.1	42.7	
196	2022/07/01 09:06:11	42.6	42.0	41.8	41.6	52.9	
201	2022/07/01 09:06:26	43.7	41.4	41.0	41.2	41.0	
206	2022/07/01 09:06:41	41.2	41.0	41.6	41.8	42.0	
211	2022/07/01 09:06:56	41.4	42.7	43.8	44.0	43.4	
216	2022/07/01 09:07:11	43.3	43.6	48.4	54.8	54.5	
221	2022/07/01 09:07:26	52.0	48.0	45.9	45.1	43.5	
226	2022/07/01 09:07:41	42.1	51.3	43.1	41.4	41.3	
231	2022/07/01 09:07:56	41.6	43.6	45.0	42.5	40.8	
236	2022/07/01 09:08:11	49.5	44.9	42.3	47.2	47.1	
241	2022/07/01 09:08:26	44.1	43.4	49.1	46.5	41.6	
246	2022/07/01 09:08:41	45.5	48.0	43.5	43.2	43.4	
251	2022/07/01 09:08:56	46.5	48.5	43.8	43.2	44.9	
256	2022/07/01 09:09:11	56.8	60.4	63.0	54.4	49.4	
261	2022/07/01 09:09:26	49.7	47.1	46.1	45.5	47.6	
266	2022/07/01 09:09:41	47.7	44.3	45.3	44.9	43.5	
271	2022/07/01 09:09:56	42.8	50.6	45.7	44.5	44.1	
276	2022/07/01 09:10:11	44.4	45.7	45.4	47.3	45.9	
281	2022/07/01 09:10:26	47.6	47.2	48.1	49.6	46.5	
286	2022/07/01 09:10:41	45.0	44.9	44.5	42.9	41.7	
291	2022/07/01 09:10:56	41.9	43.2	41.4	43.9	46.6	
296	2022/07/01 09:11:11	41.4	40.5	41.7	43.5	44.7	

Freq Weight : A
 Time Weight : SLOW
 Level Range : 40-100
 Max dB : 64.0 - 2022/07/01 09:22:05
 Level Range : 40-100
 SEL : 78.3
 Leq : 48.8

No. s	Date Time	(dB)					
1	2022/07/01 09:16:04	45.7	46.6	45.9	44.0	45.4	
6	2022/07/01 09:16:19	46.0	53.0	45.2	47.2	43.7	
11	2022/07/01 09:16:34	43.9	43.1	43.3	42.8	44.2	
16	2022/07/01 09:16:49	43.8	44.5	44.5	44.9	43.9	
21	2022/07/01 09:17:04	43.8	44.6	44.5	44.4	43.9	
26	2022/07/01 09:17:19	46.3	45.6	45.2	45.4	44.4	
31	2022/07/01 09:17:34	45.7	44.2	43.7	43.2	42.6	
36	2022/07/01 09:17:49	43.1	43.3	42.4	43.5	45.1	
41	2022/07/01 09:18:04	44.6	45.8	47.7	44.4	43.1	
46	2022/07/01 09:18:19	45.2	44.2	43.6	44.4	45.1	
51	2022/07/01 09:18:34	45.4	45.8	45.3	44.6	44.9	
56	2022/07/01 09:18:49	44.1	44.9	45.1	44.9	43.7	
61	2022/07/01 09:19:04	44.6	44.7	44.6	44.0	44.9	
66	2022/07/01 09:19:19	45.8	45.7	47.2	46.4	44.2	
71	2022/07/01 09:19:34	44.3	43.1	43.7	44.1	46.2	
76	2022/07/01 09:19:49	43.5	43.4	42.3	42.4	43.1	
81	2022/07/01 09:20:04	43.0	43.2	45.0	45.6	45.6	
86	2022/07/01 09:20:19	44.3	43.7	43.5	43.9	43.5	
91	2022/07/01 09:20:34	44.4	43.3	42.9	42.4	43.7	
96	2022/07/01 09:20:49	44.3	45.3	43.3	42.5	43.8	
101	2022/07/01 09:21:04	43.9	42.3	44.5	44.4	44.5	
106	2022/07/01 09:21:19	45.1	45.9	44.3	44.5	45.3	
111	2022/07/01 09:21:34	47.6	48.4	49.2	52.7	54.9	
116	2022/07/01 09:21:49	58.0	61.0	62.5	63.2	62.8	
121	2022/07/01 09:22:04	63.3	61.6	55.0	55.8	54.9	
126	2022/07/01 09:22:19	51.7	49.9	48.3	47.0	46.3	
131	2022/07/01 09:22:34	46.3	46.6	46.9	47.7	47.0	
136	2022/07/01 09:22:49	47.2	46.8	46.0	45.6	45.4	
141	2022/07/01 09:23:04	45.2	44.6	44.7	46.1	46.6	
146	2022/07/01 09:23:19	45.5	45.3	45.0	44.9	44.7	
151	2022/07/01 09:23:34	45.5	45.6	44.7	44.7	44.7	
156	2022/07/01 09:23:49	44.3	42.5	43.7	43.8	43.2	
161	2022/07/01 09:24:04	43.6	45.4	44.2	44.1	43.4	
166	2022/07/01 09:24:19	43.6	44.2	44.4	44.5	45.5	
171	2022/07/01 09:24:34	45.8	45.9	45.5	45.2	45.0	
176	2022/07/01 09:24:49	46.2	46.3	46.3	45.3	44.9	
181	2022/07/01 09:25:04	44.7	46.2	46.1	45.1	44.0	
186	2022/07/01 09:25:19	44.0	43.7	43.2	43.8	44.1	
191	2022/07/01 09:25:34	45.7	47.8	49.5	46.4	46.4	
196	2022/07/01 09:25:49	45.9	45.7	46.0	45.6	44.6	
201	2022/07/01 09:26:04	45.8	44.9	43.7	43.0	43.3	
206	2022/07/01 09:26:19	44.3	44.8	44.0	44.5	44.3	
211	2022/07/01 09:26:34	44.9	43.3	45.1	46.8	44.7	
216	2022/07/01 09:26:49	45.5	44.5	48.2	46.3	45.0	
221	2022/07/01 09:27:04	45.9	43.7	46.1	46.0	44.4	
226	2022/07/01 09:27:19	44.0	44.9	44.1	46.4	44.8	
231	2022/07/01 09:27:34	44.5	46.3	45.1	44.9	44.7	
236	2022/07/01 09:27:49	44.5	44.1	43.7	44.2	44.2	
241	2022/07/01 09:28:04	45.0	46.1	45.2	45.3	45.4	
246	2022/07/01 09:28:19	45.0	45.7	47.5	48.3	48.1	
251	2022/07/01 09:28:34	47.8	49.4	50.9	47.5	45.2	
256	2022/07/01 09:28:49	52.4	46.0	44.7	46.7	48.9	
261	2022/07/01 09:29:04	45.6	44.4	42.7	42.7	42.1	
266	2022/07/01 09:29:19	43.2	43.4	42.8	43.2	44.3	
271	2022/07/01 09:29:34	44.2	44.0	44.8	44.5	44.7	
276	2022/07/01 09:29:49	45.2	43.5	43.4	43.4	43.0	
281	2022/07/01 09:30:04	44.3	43.6	43.8	45.1	44.6	
286	2022/07/01 09:30:19	45.4	45.6	44.3	44.5	44.7	
291	2022/07/01 09:30:34	44.3	44.7	44.4	46.4	45.4	
296	2022/07/01 09:30:49	46.4	45.4	45.2	44.4	44.3	

Noise Attenuation and Contours	
Input Variables	
Point or Line Source	Point
Hard or Soft Site	Hard
Attenuation Rate	6 dBA/Doubling of Distance (Choice: 3, 4.5, 6, or 7.5)
Reference Noise Level	90 dBA
Reference Distance	50 feet
<p>Note: Within 0-10 feet from the source, there is virtually no attenuation.</p>	

Noise Level at Receiver		
Distance to Receiver		Noise Level
50	ft	90.0 dBA
100	ft	84.0 dBA
150	ft	80.5 dBA
200	ft	78.0 dBA
400	ft	71.9 dBA
400	ft	71.9 dBA

Noise Contours	
Noise Level Contour	Distance from Source
80 dBA	158 ft
75 dBA	281 ft
70 dBA	500 ft
65 dBA	889 ft
60 dBA	1581 ft
55 dBA	2812 ft
50 dBA	5000 ft
45 dBA	8891 ft

Groundborne Noise and Vibration Modeling

Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV _{ref} (in/sec)	Lv _{ref} (VdB)	RMS _{ref} (in/sec)	Reference Distance
Vibratory Roller	0.21	94	0.050	25
Hoe Ram	0.089	87	0.022	25
Large bulldozer	0.089	87	0.022	25
Caisson drilling	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV _x (in/sec)	Lv _x (VdB)	RMS _x (in/sec)
Vibratory Roller	400	0.0099	68	0.002
Hoe Ram	400	0.0042	61	0.001
Large bulldozer	400	0.0042	61	0.001
Caisson drilling	400	0.0042	61	0.001
Loaded trucks	400	0.0036	57	0.001
Jack hammer	400	0.0017	53	0.000
Small bulldozer	400	0.0001	32	0.000

Equipment	Vibration Contours		
	Distance to (feet)		
	0.200 PPV	72.0 VdB	0.0080 RMS
Vibratory Roller	26	250	133
Hoe Ram	12	120	64
Large bulldozer	12	120	64
Caisson drilling	12	120	64
Loaded trucks	10	79	42
Jack hammer	5	52	28
Small bulldozer	1	6	3

Source

California Department of Transportation (Caltrans). 2013. Transportation and Construction
Last Updated: 4/11/2019