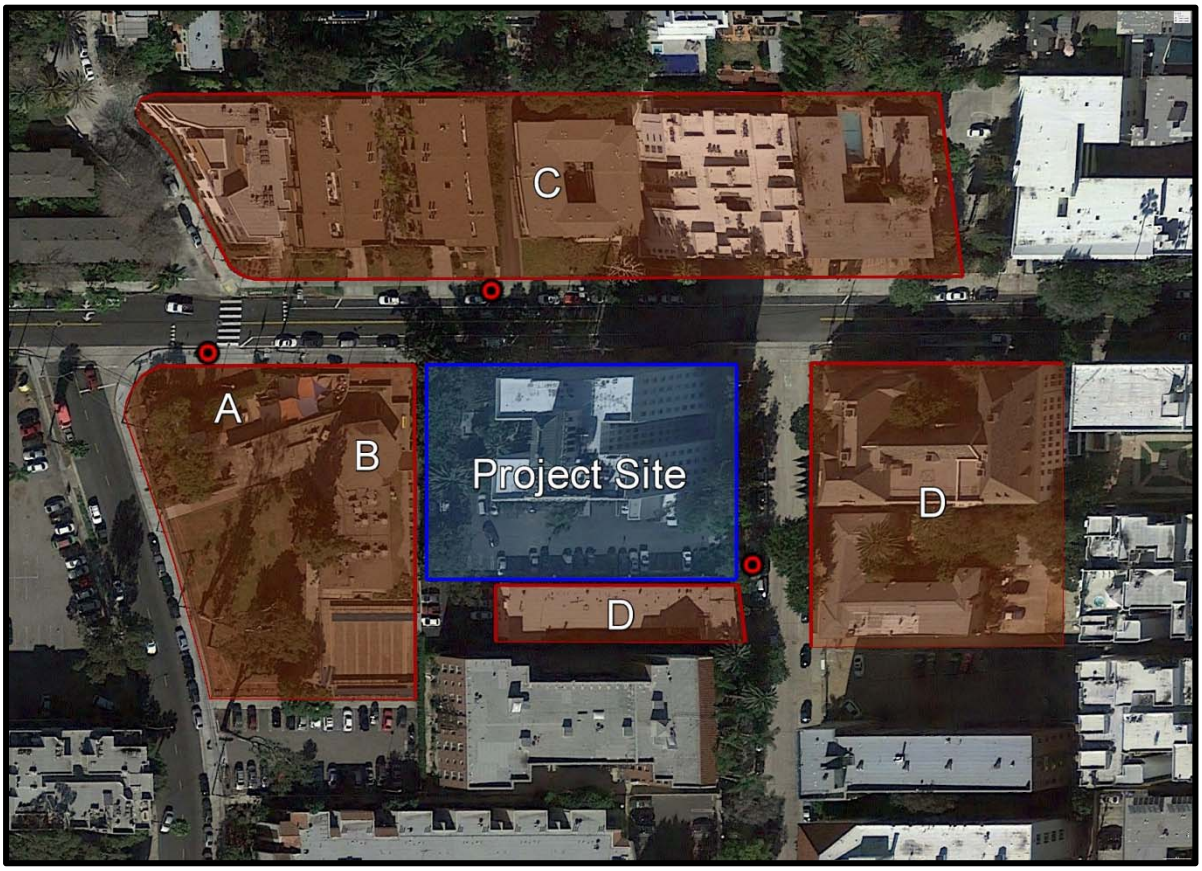
Montecito Apartments – Noise Receptor Map



***Red markers indicate monitoring locations**

A. Canyon Co-Op School

B. Las Palmas Senior Citizen Center

C. Franklin Avenue Residences

D. Cherokee Avenue Residences

Imagery via Google Earth

DKA Planning

Franklin Avenue - Near Las Palmas Avenue

12/5/2016

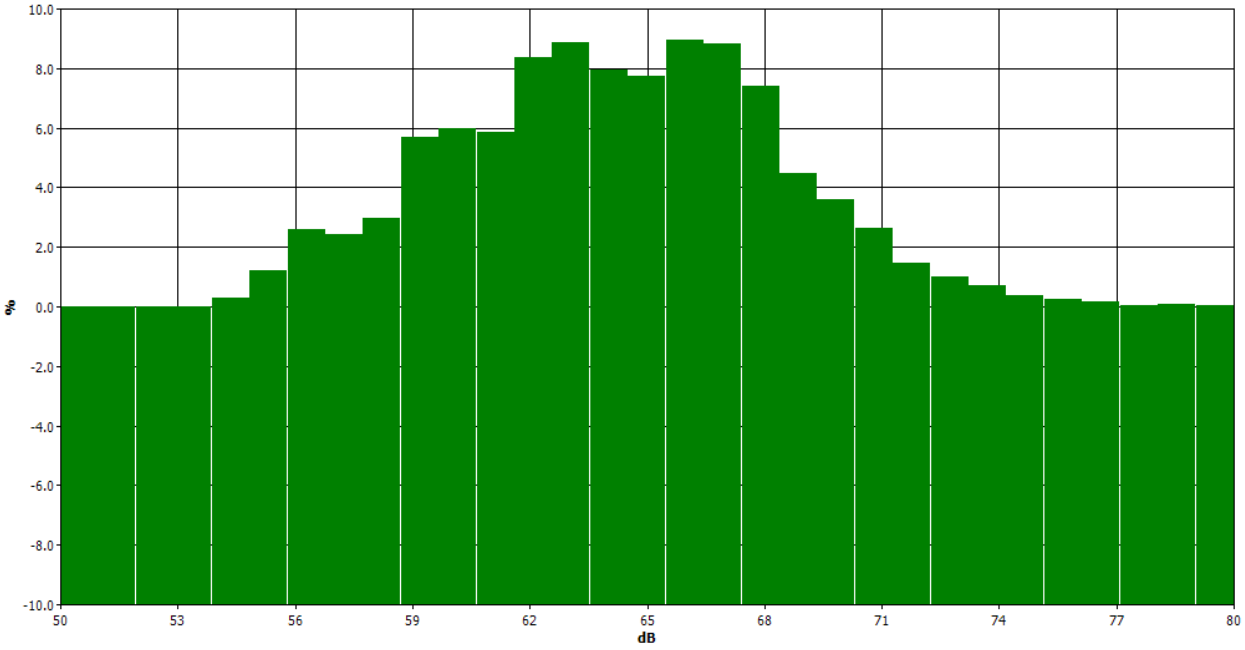
Information Panel

Name	S381_BIJ050019_05122016_142632
Start Time	Monday, December 5, 2016, 11:46am
Stop Time	Monday, December 5, 2016, 12:01pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	66.7dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

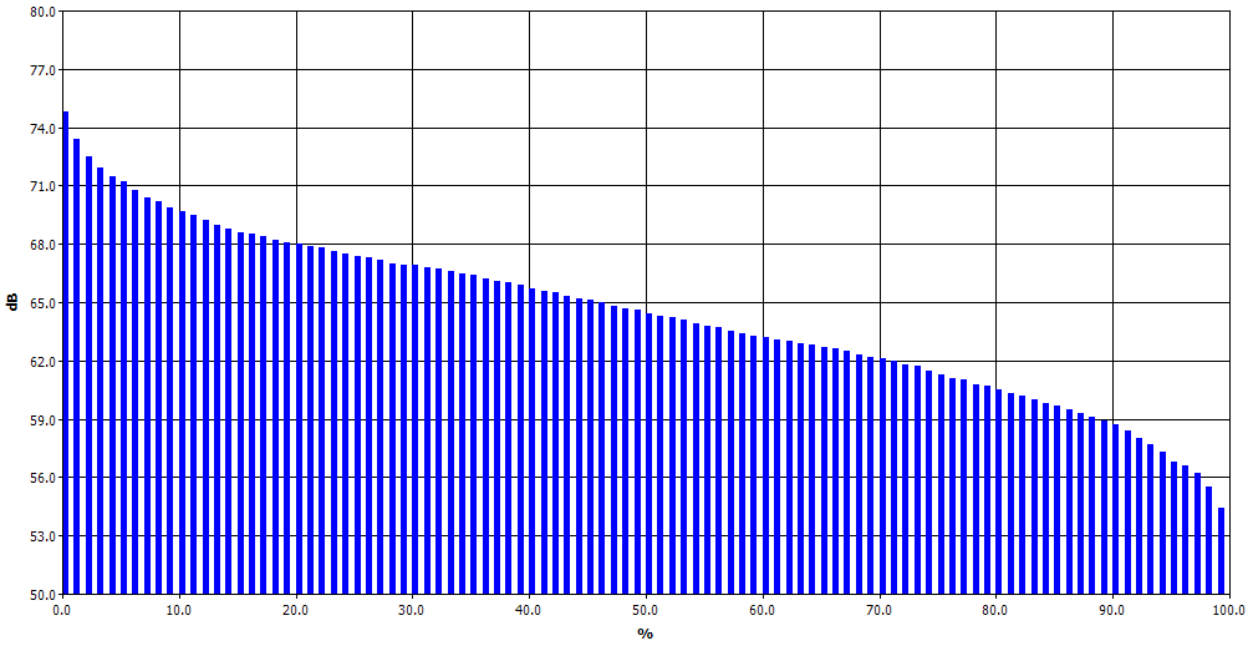
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.03	0.02	0.20	0.31
55	0.14	0.10	0.06	0.07	0.07	0.08	0.19	0.16	0.21	0.11	1.19
56	0.07	0.09	0.13	0.25	0.41	0.25	0.28	0.44	0.35	0.33	2.61
57	0.22	0.21	0.13	0.24	0.24	0.25	0.21	0.25	0.40	0.29	2.44
58	0.30	0.23	0.30	0.27	0.24	0.28	0.26	0.28	0.39	0.43	2.98
59	0.58	0.60	0.50	0.51	0.46	0.51	0.55	0.61	0.65	0.72	5.69
60	0.60	0.67	0.39	0.58	0.55	0.55	0.59	0.59	0.71	0.74	5.97
61	0.57	0.61	0.64	0.59	0.70	0.56	0.55	0.58	0.48	0.57	5.86
62	0.68	0.75	0.91	0.84	0.83	0.82	0.79	0.94	0.89	0.92	8.38
63	1.10	1.23	0.72	1.00	0.90	0.78	0.86	0.69	0.77	0.83	8.88
64	0.76	0.88	0.80	0.91	0.78	0.78	0.66	0.70	0.89	0.76	7.93
65	0.72	0.67	0.70	0.79	0.90	0.85	0.79	0.77	0.79	0.76	7.76
66	0.80	0.89	0.56	0.79	0.76	1.00	0.95	1.01	1.06	1.12	8.95
67	1.07	0.99	0.91	0.82	0.99	0.81	0.88	0.80	0.76	0.79	8.82
68	0.80	0.78	0.89	0.91	0.81	0.67	0.70	0.66	0.62	0.57	7.42
69	0.52	0.54	0.36	0.44	0.53	0.42	0.47	0.46	0.37	0.35	4.46
70	0.36	0.41	0.46	0.47	0.40	0.36	0.34	0.27	0.26	0.26	3.59
71	0.23	0.23	0.26	0.23	0.26	0.31	0.32	0.24	0.23	0.31	2.62
72	0.29	0.20	0.19	0.09	0.15	0.13	0.13	0.12	0.09	0.10	1.48
73	0.12	0.13	0.15	0.13	0.12	0.08	0.08	0.07	0.06	0.06	1.01
74	0.06	0.05	0.06	0.07	0.06	0.06	0.07	0.07	0.11	0.09	0.69
75	0.04	0.03	0.03	0.02	0.04	0.04	0.03	0.04	0.05	0.06	0.38
76	0.03	0.03	0.03	0.04	0.05	0.02	0.02	0.02	0.02	0.02	0.26
77	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.03	0.01	0.18
78	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
79	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07
80	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03

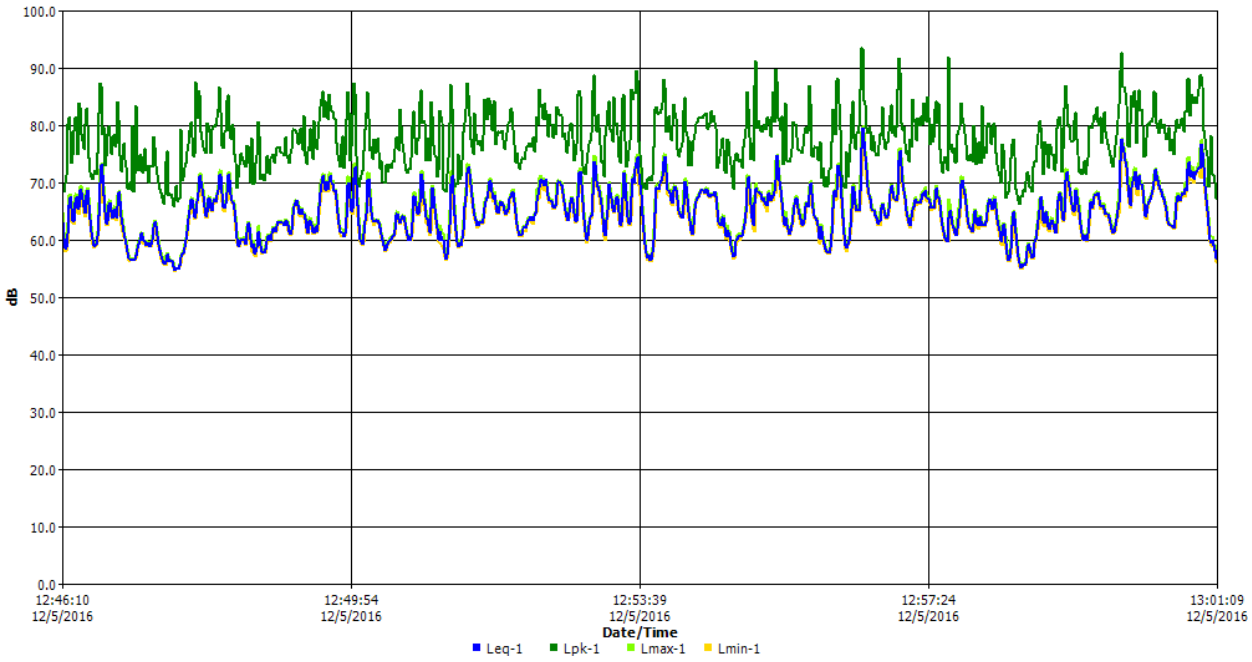
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		74.8	73.4	72.5	71.9	71.5	71.2	70.8	70.4	70.2
10%	69.9	69.7	69.5	69.2	69	68.8	68.6	68.5	68.4	68.2
20%	68.1	68	67.9	67.8	67.6	67.5	67.4	67.3	67.2	67
30%	66.9	66.9	66.8	66.7	66.6	66.5	66.4	66.2	66.1	66
40%	65.9	65.7	65.6	65.5	65.3	65.2	65.1	65	64.8	64.7
50%	64.6	64.4	64.3	64.2	64.1	63.9	63.8	63.7	63.5	63.4
60%	63.3	63.2	63.1	63	62.9	62.8	62.7	62.6	62.5	62.3
70%	62.2	62.1	62	61.8	61.7	61.5	61.3	61.1	61	60.8
80%	60.7	60.5	60.3	60.2	60	59.8	59.7	59.5	59.3	59.1
90%	58.9	58.7	58.4	58	57.7	57.3	56.8	56.6	56.2	55.5
100%	54.4									

Logged Data Chart



Franklin Avenue - Near Cherokee Avenue

12/5/2016

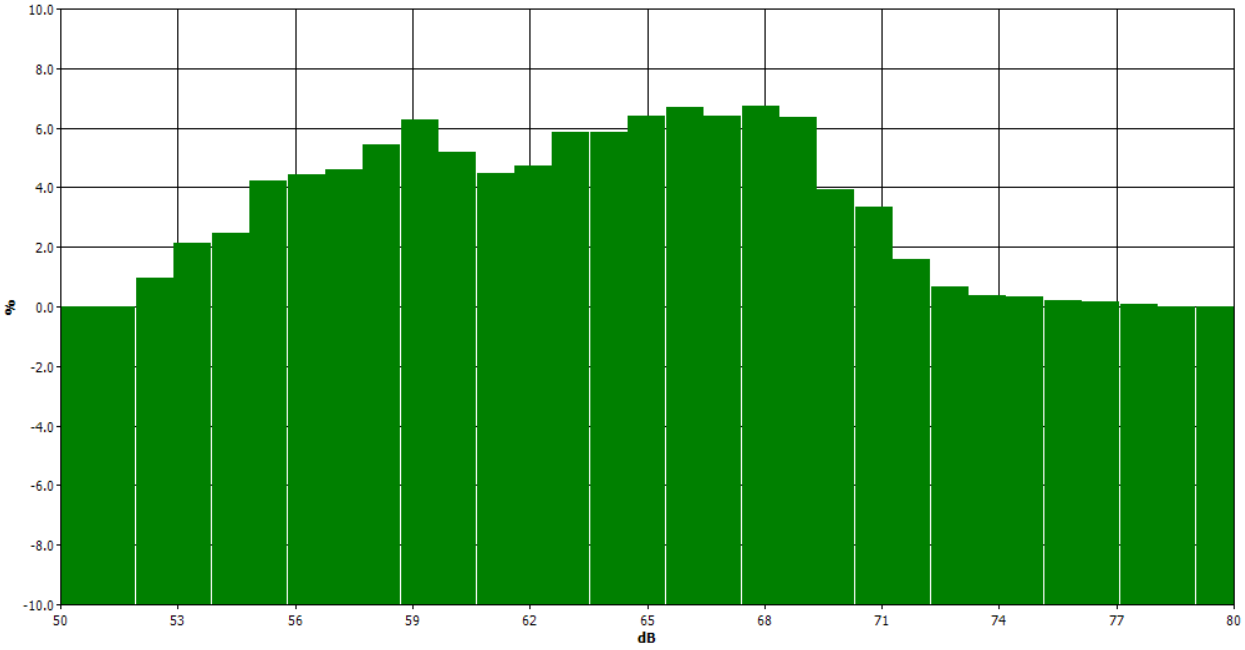
Information Panel

Name	S382_BIJ050019_05122016_142633
Start Time	Monday, December 5, 2016, 12:04pm
Stop Time	Monday, December 5, 2016, 12:19pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	66.3dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

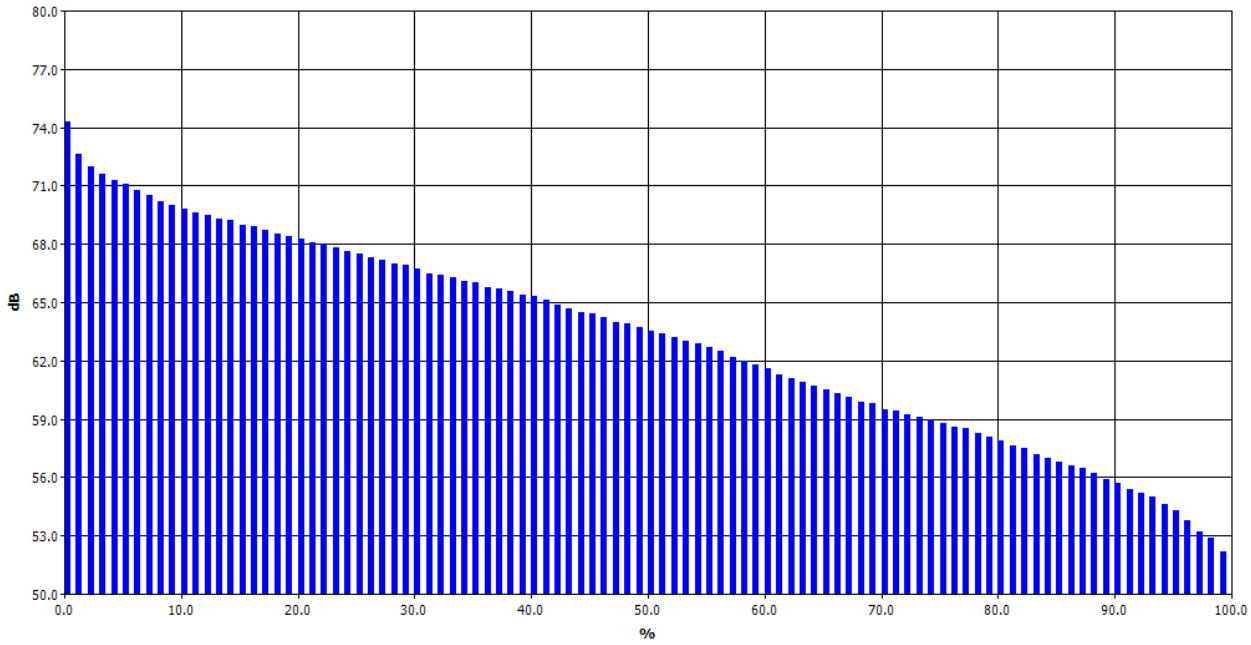
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.01	0.04	0.08	0.11	0.13	0.27	0.34	0.98
53	0.42	0.29	0.21	0.15	0.13	0.17	0.18	0.20	0.21	0.17	2.14
54	0.16	0.22	0.14	0.30	0.27	0.23	0.25	0.37	0.28	0.25	2.47
55	0.32	0.45	0.45	0.46	0.40	0.47	0.43	0.43	0.48	0.36	4.24
56	0.36	0.28	0.28	0.40	0.36	0.44	0.47	0.64	0.67	0.54	4.45
57	0.53	0.53	0.29	0.41	0.47	0.47	0.50	0.56	0.43	0.42	4.61
58	0.53	0.47	0.39	0.51	0.58	0.55	0.56	0.58	0.73	0.53	5.43
59	0.66	0.81	0.67	0.63	0.70	0.66	0.56	0.45	0.48	0.66	6.29
60	0.71	0.68	0.38	0.56	0.47	0.47	0.42	0.55	0.55	0.43	5.20
61	0.46	0.38	0.43	0.47	0.46	0.42	0.43	0.41	0.49	0.51	4.47
62	0.41	0.43	0.45	0.43	0.45	0.44	0.49	0.48	0.59	0.55	4.72
63	0.57	0.60	0.47	0.68	0.64	0.59	0.59	0.61	0.59	0.54	5.88
64	0.60	0.63	0.67	0.59	0.58	0.60	0.55	0.56	0.56	0.55	5.88
65	0.56	0.49	0.56	0.59	0.58	0.69	0.66	0.73	0.82	0.73	6.40
66	0.76	0.79	0.47	0.72	0.76	0.72	0.74	0.63	0.56	0.54	6.69
67	0.65	0.69	0.70	0.66	0.64	0.61	0.61	0.62	0.60	0.60	6.40
68	0.60	0.57	0.67	0.71	0.78	0.77	0.72	0.62	0.63	0.65	6.72
69	0.77	0.73	0.54	0.61	0.63	0.72	0.62	0.56	0.58	0.63	6.37
70	0.48	0.45	0.36	0.42	0.38	0.37	0.32	0.35	0.45	0.36	3.95
71	0.33	0.33	0.42	0.40	0.35	0.36	0.26	0.32	0.26	0.28	3.33
72	0.23	0.23	0.15	0.12	0.22	0.17	0.17	0.11	0.10	0.08	1.57
73	0.09	0.08	0.07	0.07	0.09	0.09	0.06	0.04	0.02	0.04	0.65
74	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.03	0.04	0.05	0.37
75	0.05	0.06	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.32
76	0.02	0.03	0.03	0.04	0.02	0.02	0.02	0.03	0.01	0.01	0.22
77	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.02	0.16
78	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.10
79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

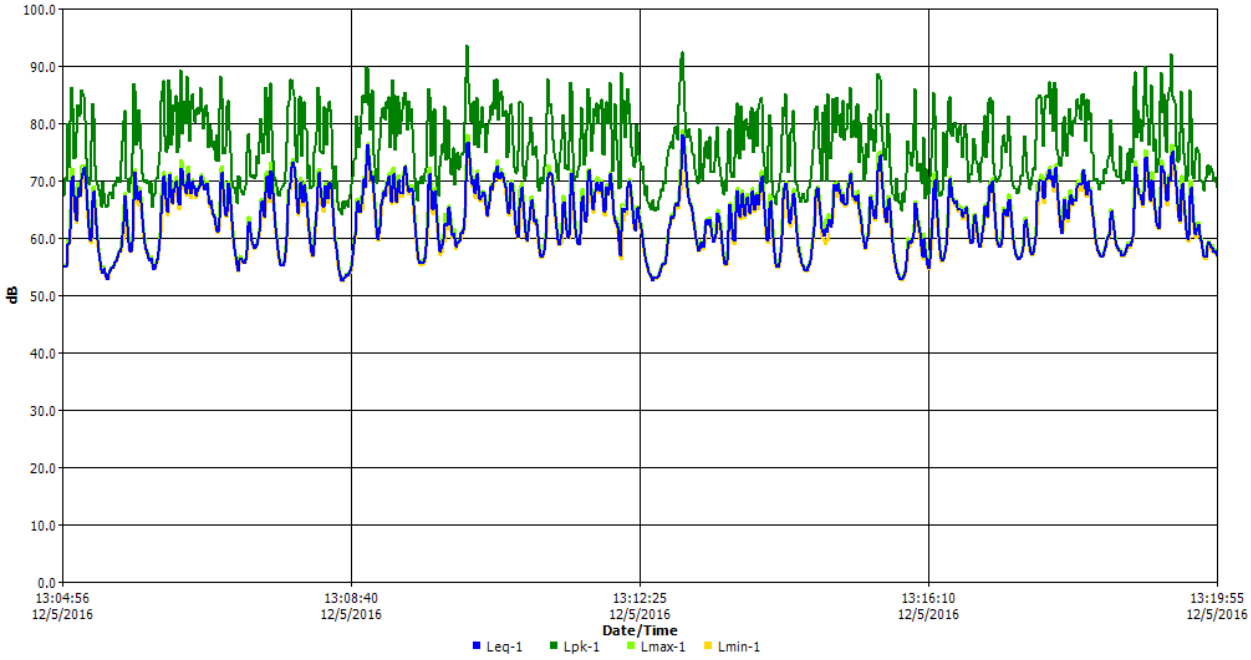
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		74.3	72.6	72	71.6	71.3	71.1	70.8	70.5	70.2
10%	70	69.8	69.6	69.5	69.3	69.2	69	68.9	68.7	68.5
20%	68.4	68.3	68.1	68	67.8	67.6	67.5	67.3	67.2	67
30%	66.9	66.7	66.5	66.4	66.3	66.1	66	65.8	65.7	65.6
40%	65.4	65.3	65.1	64.9	64.7	64.5	64.4	64.2	64	63.9
50%	63.7	63.5	63.4	63.2	63	62.9	62.7	62.5	62.2	62
60%	61.8	61.6	61.3	61.1	60.9	60.7	60.5	60.3	60.1	59.9
70%	59.8	59.5	59.4	59.2	59.1	59	58.8	58.6	58.5	58.3
80%	58.1	57.9	57.6	57.5	57.2	57	56.8	56.6	56.5	56.2
90%	55.9	55.7	55.4	55.2	55	54.6	54.3	53.8	53.2	52.9
100%	52.2									

Logged Data Chart



Cherokee Avenue

12/5/2016

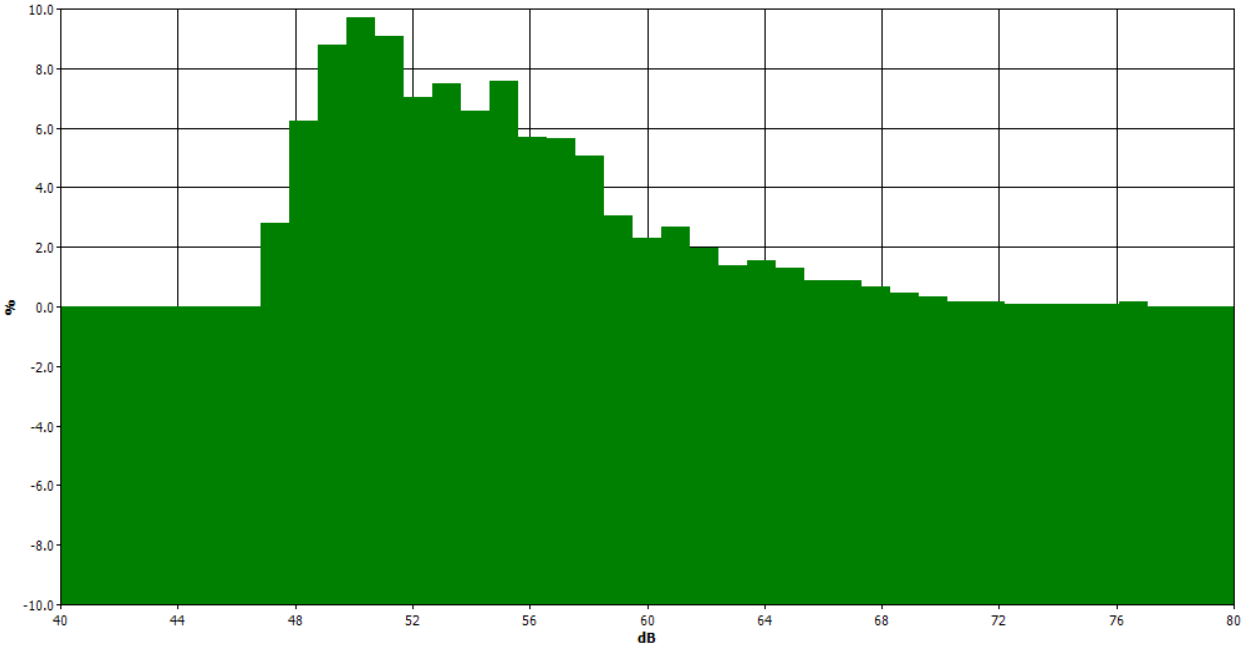
Information Panel

Name	S383_BIJ050019_05122016_142633
Start Time	Monday, December 5, 2016, 12:23pm
Stop Time	Monday, December 5, 2016, 12:36pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.5dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

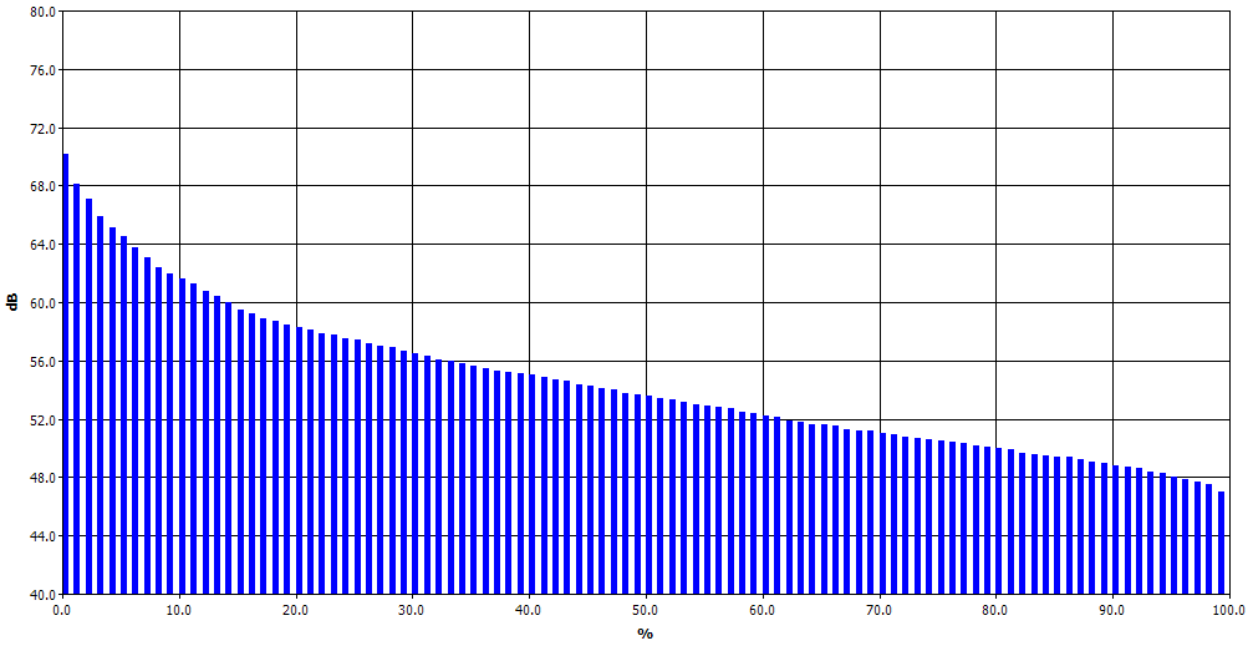
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.01	0.15	0.14	0.20	0.34	0.60	0.38	0.46	0.50	2.78
48	0.57	0.71	0.38	0.55	0.55	0.77	0.53	0.74	0.68	0.77	6.25
49	0.89	0.83	0.78	0.76	0.66	1.12	1.06	0.96	0.95	0.77	8.78
50	0.79	0.74	1.03	1.01	0.94	0.97	0.90	1.05	1.19	1.07	9.69
51	1.00	0.90	0.56	1.07	1.01	0.93	0.95	1.07	0.85	0.76	9.10
52	0.58	0.54	0.58	0.73	0.87	0.75	0.71	0.64	0.75	0.90	7.05
53	0.70	0.67	0.69	0.81	0.80	0.69	0.73	0.76	0.77	0.88	7.50
54	0.76	0.88	0.51	0.69	0.70	0.65	0.62	0.56	0.63	0.57	6.57
55	0.88	1.01	0.88	0.76	0.83	0.79	0.71	0.65	0.52	0.52	7.55
56	0.72	0.61	0.52	0.56	0.62	0.52	0.52	0.54	0.53	0.56	5.71
57	0.69	0.61	0.38	0.61	0.56	0.60	0.63	0.49	0.45	0.66	5.67
58	0.55	0.57	0.44	0.48	0.55	0.43	0.47	0.46	0.57	0.55	5.06
59	0.41	0.34	0.36	0.35	0.30	0.31	0.30	0.28	0.20	0.19	3.05
60	0.22	0.29	0.18	0.23	0.23	0.23	0.23	0.21	0.24	0.23	2.29
61	0.20	0.20	0.21	0.19	0.21	0.30	0.36	0.32	0.38	0.29	2.66
62	0.24	0.22	0.23	0.20	0.20	0.22	0.18	0.15	0.18	0.16	1.98
63	0.16	0.15	0.11	0.15	0.16	0.14	0.13	0.15	0.13	0.13	1.40
64	0.15	0.14	0.14	0.14	0.14	0.12	0.16	0.19	0.18	0.20	1.56
65	0.16	0.14	0.17	0.21	0.11	0.12	0.11	0.11	0.09	0.10	1.31
66	0.09	0.12	0.06	0.10	0.11	0.10	0.07	0.05	0.07	0.09	0.87
67	0.06	0.07	0.08	0.07	0.10	0.11	0.11	0.12	0.08	0.07	0.88
68	0.10	0.11	0.10	0.11	0.05	0.05	0.04	0.03	0.05	0.04	0.68
69	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.09	0.03	0.05	0.46
70	0.05	0.05	0.04	0.05	0.03	0.04	0.04	0.02	0.01	0.01	0.33
71	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.16
72	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.17
73	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
74	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08
75	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.08
76	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.10
77	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.03	0.00	0.00	0.15
78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

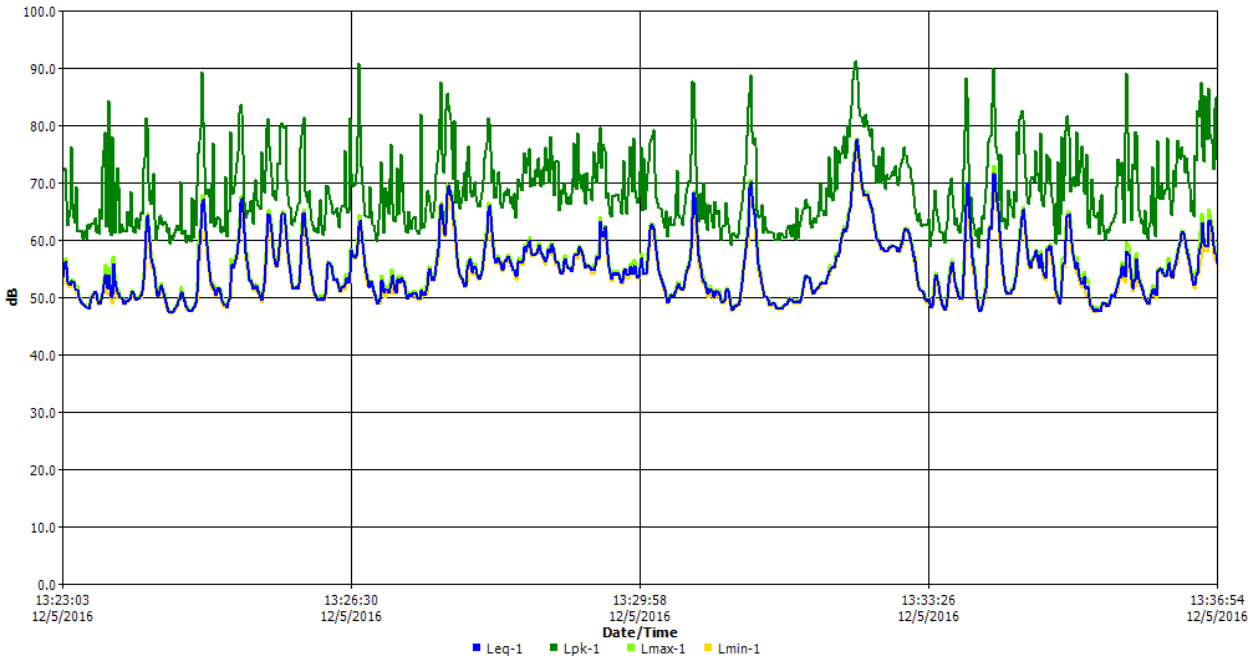
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		70.2	68.1	67.1	65.9	65.1	64.5	63.8	63.1	62.4
10%	62	61.6	61.3	60.8	60.4	60	59.5	59.2	58.9	58.7
20%	58.5	58.3	58.1	57.9	57.8	57.5	57.4	57.2	57	56.9
30%	56.7	56.5	56.3	56.1	56	55.8	55.6	55.5	55.3	55.2
40%	55.1	55	54.9	54.7	54.6	54.4	54.3	54.1	54	53.8
50%	53.7	53.6	53.4	53.3	53.2	53	52.9	52.8	52.7	52.5
60%	52.4	52.2	52.1	51.9	51.8	51.6	51.6	51.5	51.3	51.2
70%	51.2	51	50.9	50.8	50.7	50.6	50.5	50.4	50.3	50.2
80%	50.1	50	49.9	49.7	49.6	49.5	49.4	49.4	49.2	49.1
90%	49	48.8	48.7	48.6	48.4	48.3	48	47.9	47.7	47.5
100%	47									

Logged Data Chart



Canyon Co-Op School: DEMOLITION AND GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows1)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows2)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(rows3)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Existing Building	5
Axxx	0
Axxx	0
A(rows1)	0
A(rows2)	0
A(trees)	0
A(cumulative)	**5**

Canyon Co-Op School: DEMOLITION AND GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1
Cumulative Shielding (A)	5
G	0
Distance	50
Unmitigated Construction Noise	**74.1**

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	74.1
Existing Ambient Noise Level	66.7
Unmitigated Ambient Noise	74.9
Unmitigated Increase	**8.2**

Canyon Co-Op School: DEMOLITION AND GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1
Cumulative Shielding (A)	5
Sound Barrier Shielding	10.0
G	0.0
Distance	50
Mitigated Construction Noise	**61.1**

Mitigated Receptor Noise Level

Mitigated Construction Noise	61.1
Existing Ambient Noise Level	66.7
Mitigated Ambient Noise	67.8
Mitigated Increase	**1.1**

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006.

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006.

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013.

Las Palmas Senior Citizen Center: DEMOLITION AND GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows1)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows2)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(rows3)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Existing Wall	5
Axxx	0
Axxx	0
A(rows1)	0
A(rows2)	0
A(trees)	0
A(cumulative)	**5**

Las Palmas Senior Citizen Center: DEMOLITION AND GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1
Cumulative Shielding (A)	5
G	0
Distance	15
Unmitigated Construction Noise	**74.1**

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	74.1
Existing Ambient Noise Level	66.7
Unmitigated Ambient Noise	74.9
Unmitigated Increase	**8.2**

Las Palmas Senior Citizen Center: DEMOLITION AND GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1
Cumulative Shielding (A)	0
Sound Barrier Shielding	10.0
G	0.0
Distance	15
Mitigated Construction Noise	**66.1**

Mitigated Receptor Noise Level

Mitigated Construction Noise	66.1
Existing Ambient Noise Level	66.7
Mitigated Ambient Noise	69.4
Mitigated Increase	**2.7**

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006.

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006.

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013.

Franklin Avenue Residences: DEMOLITION AND GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows1)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows2)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(rows3)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Axxx	0
Axxx	0
Axxx	0
A(rows1)	0
A(rows2)	0
A(trees)	0
A(cumulative)	**0**

Franklin Avenue Residences: DEMOLITION AND GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1
Cumulative Shielding (A)	0
G	0
Distance	80
Unmitigated Construction Noise	**75.1**

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	75.1
Existing Ambient Noise Level	66.3
Unmitigated Ambient Noise	75.6
Unmitigated Increase	**9.3**

Franklin Avenue Residences: DEMOLITION AND GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1
Cumulative Shielding (A)	0
Sound Barrier Shielding	10.0
G	0.0
Distance	80
Mitigated Construction Noise	**62.1**

Mitigated Receptor Noise Level

Mitigated Construction Noise	62.1
Existing Ambient Noise Level	66.3
Mitigated Ambient Noise	67.7
Mitigated Increase	**1.4**

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006.

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006.

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013.

Cherokee Avenue Residences: DEMOLITION AND GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows1)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(rows2)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(rows3)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Axxx	0
Axxx	0
Axxx	0
A(rows1)	0
A(rows2)	0
A(trees)	0
A(cumulative)	**0**

Cherokee Avenue Residences: DEMOLITION AND GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1
Cumulative Shielding (A)	0
G	0
Distance	5
Unmitigated Construction Noise	**79.1**

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	79.1
Existing Ambient Noise Level	59.5
Unmitigated Ambient Noise	79.2
Unmitigated Increase	**19.7**

Cherokee Avenue Residences: DEMOLITION AND GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1
Cumulative Shielding (A)	0
Sound Barrier Shielding	15.0
G	0.0
Distance	5
Mitigated Construction Noise	**61.1**

Mitigated Receptor Noise Level

Mitigated Construction Noise	61.1
Existing Ambient Noise Level	59.5
Mitigated Ambient Noise	63.4
Mitigated Increase	**3.9**

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006.

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006.

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013.

Montecito Apartments Vibration

Construction Vibration - PPV: UNMITIGATED

Receptor: Canyon Co-Op School
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	50
Unmitigated Vibration Level (in/sec)	**0.045**

Receptor: Las Palmas Senior Citizen Center
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Unmitigated Vibration Level (in/sec)	**0.148**

Receptor: Franklin Avenue Residences
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	80
Unmitigated Vibration Level (in/sec)	**0.028**

Receptor: 1847 N Cherokee Avenue Residences
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	5
Unmitigated Vibration Level (in/sec)	**0.445**

Sources

California Department of Transportation (Caltrans), *Transportation and Construction Vibration Guidance Manual*, September 2013.
Federal Transit Administration (FTA), *Transit Noise and Vibration Impact Assessment*, May 2006