



DOUGLASKIM+ASSOCIATES,LLC

AMBIENT NOISE MEASUREMENTS



DOUGLASKIM+ASSOCIATES, LLC

Figure 1
Noise Measurement Locations

Session Report

4/22/2022

Information Panel

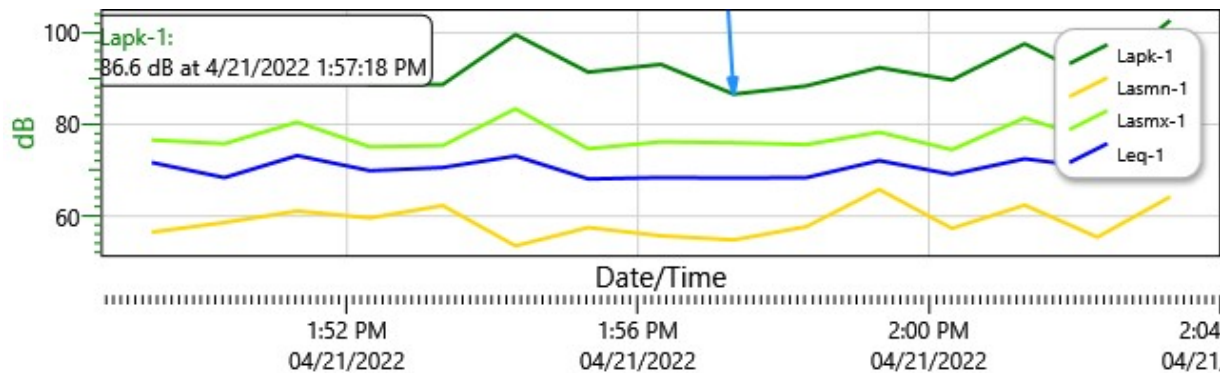
Name	16133 Garfield Avenue
Comments	
Start Time	4/21/2022 1:48:19 PM
Stop Time	4/21/2022 2:03:23 PM
Run Time	00:15:04
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	70.9 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Chart

16133 Garfield Avenue: Logged Data Chart



Logged Data Table

Date/Time	Lapk-1	Lasnm-1	Lasmx-1	Leq-1
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Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
4/21/2022 1:49:19 PM	93.6	56.5	76.6	71.7
1:50:19 PM	92.3	58.6	75.8	68.4
1:51:19 PM	94.2	61.1	80.5	73.2
1:52:19 PM	88.6	59.6	75.1	69.9
1:53:19 PM	88.7	62.3	75.4	70.6
1:54:19 PM	99.6	53.5	83.4	73.1
1:55:19 PM	91.4	57.5	74.7	68.1
1:56:19 PM	93.1	55.7	76.2	68.4
1:57:19 PM	86.6	54.8	76	68.3
1:58:19 PM	88.4	57.7	75.6	68.4
1:59:19 PM	92.4	65.8	78.3	72.1
2:00:19 PM	89.7	57.3	74.5	69.1
2:01:19 PM	97.6	62.4	81.4	72.5
2:02:19 PM	89.7	55.4	76.3	70.5
2:03:19 PM	102.7	64.2	80.8	73.1

Session Report

4/22/2022

Information Panel

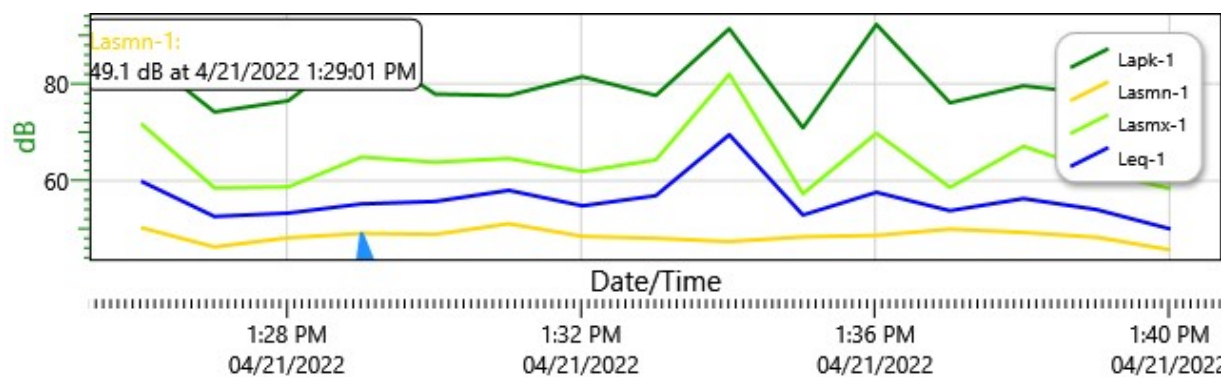
Name	15911 Vermont Avenue
Comments	
Start Time	4/21/2022 1:25:01 PM
Stop Time	4/21/2022 1:40:08 PM
Run Time	00:15:07
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Chart

15911 Vermont Avenue: Logged Data Chart



Logged Data Table

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
-----------	--------	---------	---------	-------

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
4/21/2022 1:26:01 PM	86.2	50.3	71.8	59.9
1:27:01 PM	74.2	46.3	58.5	52.6
1:28:01 PM	76.5	48.2	58.7	53.3
1:29:01 PM	87.9	49.1	64.9	55.2
1:30:01 PM	77.9	48.9	63.8	55.7
1:31:01 PM	77.6	51.1	64.6	58
1:32:01 PM	81.5	48.5	61.9	54.8
1:33:01 PM	77.6	48.1	64.3	56.9
1:34:01 PM	91.4	47.4	82	69.5
1:35:01 PM	70.9	48.4	57.3	52.9
1:36:01 PM	92.3	48.7	69.8	57.6
1:37:01 PM	76.1	50	58.6	53.8
1:38:01 PM	79.6	49.3	67.1	56.3
1:39:01 PM	77.9	48.3	62	54
1:40:01 PM	87.2	45.7	58.3	50



DOUGLASKIM+ASSOCIATES,LLC

CONSTRUCTION NOISE CALCULATIONS

Noise emissions of industry sources

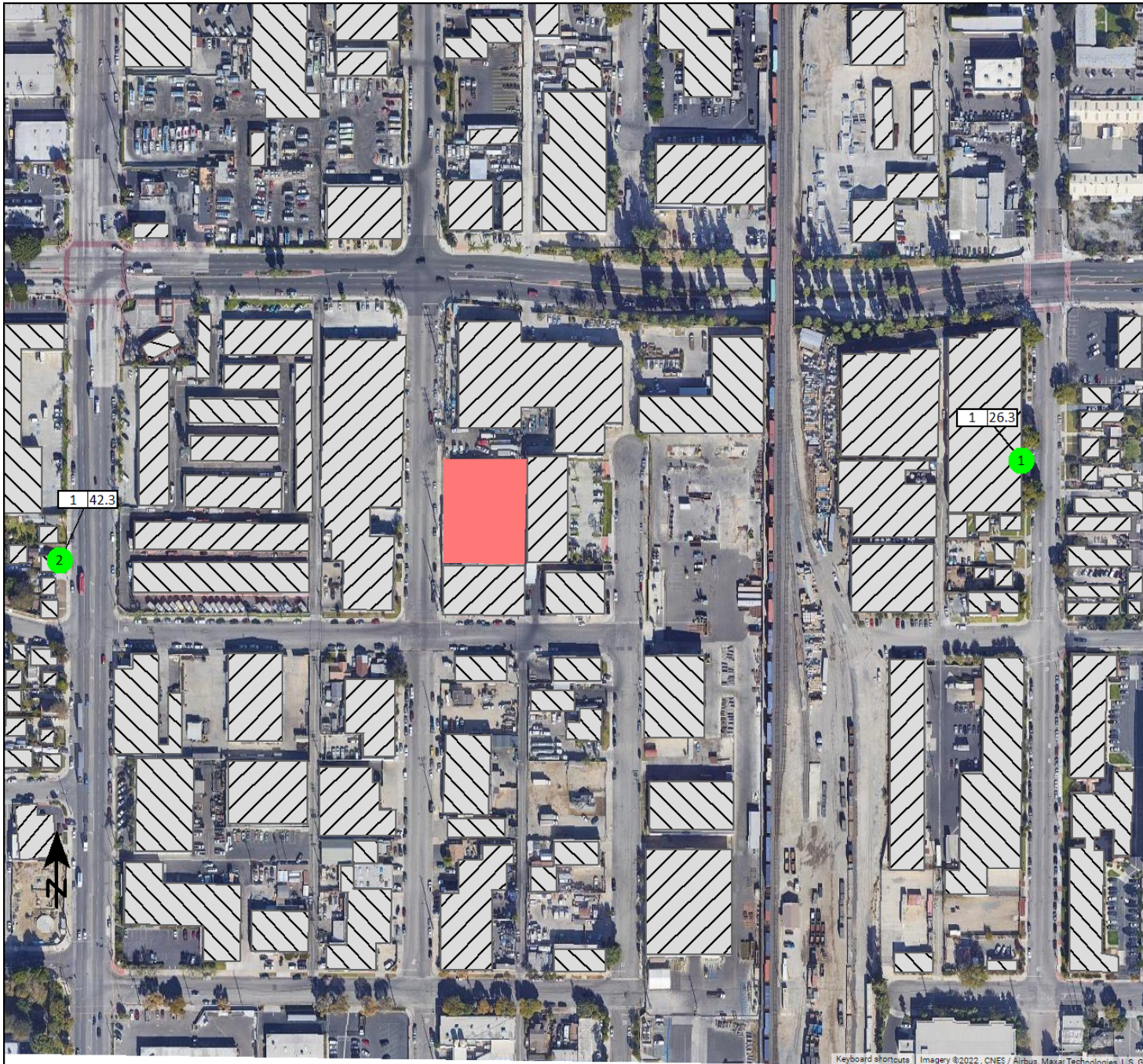
Source name	Size m/m²	Reference	Level			Corrections		
			Day dB(A)	Evening dB(A)	Night dB(A)	Cwall dB	CI dB	CT dB
Construction Site	2958 m²	Lw/unit	109.7	-	-	-	-	-

Receiver list

No.	Receiver name	Coordinates		Building side	Floor	Height abv.grd. m	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
		X	Y						
1	Residences - 15909-19511 Vermo	11392464.27	3750371.54	East	GF	23.37	-	26.3	-
2	Residences - 16117-16133 Garfie	11391901.29	3750313.11	East	GF	21.87	-	42.3	-

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
Residences - 15909-19511 Vermont Avenue	GF	26.3
Construction Site	-	26.3
Residences - 16117-16133 Garfield Ave.	GF	42.3
Construction Site	-	42.3



15932 Minnesota Avenue

Signs and symbols

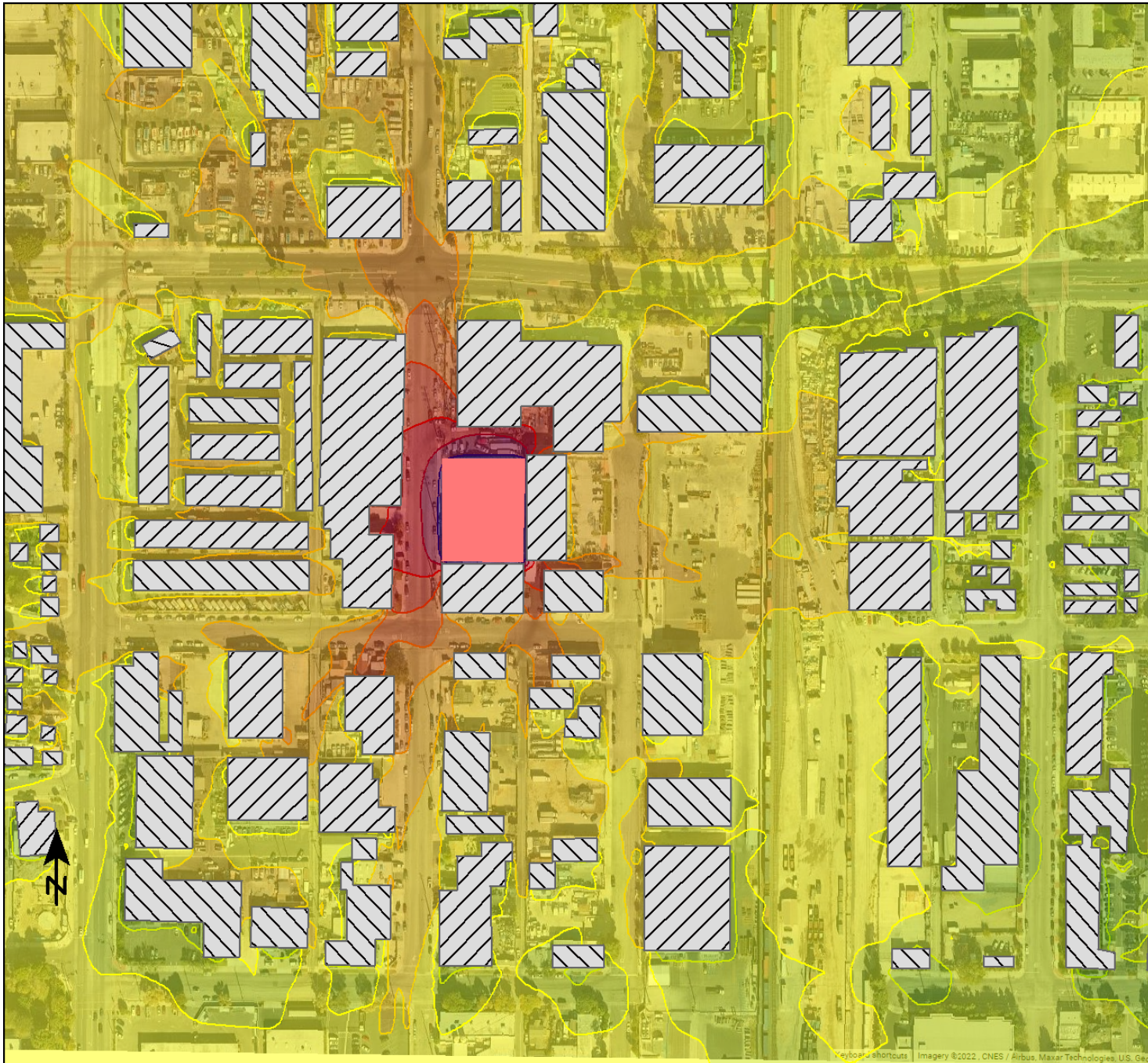
-  Building
-  Analyzed Sensitive Receptor
-  Construction Site

1 : 248

0 50 100 200 300 400 feet



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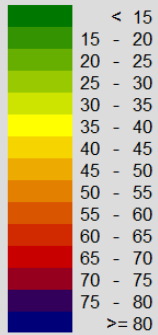


15932 Minnesota Avenue

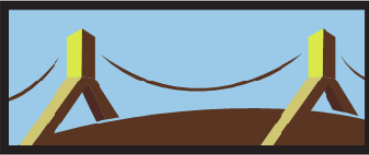
Signs and symbols

-  Building
-  Construction Site

Levels in dB(A)



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DOUGLASKIM+ASSOCIATES,LLC

Construction Noise Impacts



DOUGLAS KIM + ASSOCIATES

Reference	15.24	meter
Sound Pressure Level (Lp)	75.0	dBA
Sound Power Level (Lw)	109.7	dB

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Residences - 16117-16133 Garfield Ave.	70.9	42.3	70.9	0.0	No
Residences - 15909-15911 Vermont Ave.	59.7	26.3	59.7	0.0	No

OFF-SITE CONSTRUCTION-RELATED TRAVEL VOLUMES



Construction Phase	Worker Trips	Vendor Trips	Haul Trips	Total
Demolition	10	0	27.3	37
Grading	7.5	0	0.0	8
Trenching	5	0		5
Building Construction	43.9	46.7		91
Paving	17.5	0.0		18
Architectural Coatings	8.8	0		8.8
<i>Vendor and Haul trips represent heavy-duty truck trips with a 19.1 Passenger Car Equivalent applied</i>				

**15932 Minnesota Avenue Project****Construction Vibration**

Receptor: 7605 Monroe St.
Equipment: Large Bulldozer, Auger Drill Rig

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

Receptor: 7605 Monroe St.
Equipment: Loaded Trucks

Source PPV (in/sec)	0.076
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.127

Receptor: 15939 Illinois Ave.
Equipment: Large Bulldozer, Auger Drill Rig

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

Receptor: 15939 Illinois Ave.
Equipment: Loaded Trucks

Source PPV (in/sec)	0.076
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.127

Receptor: 7608 Alondra Blvd.
Equipment: Large Bulldozer, Auger Drill Rig

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	75
Vibration Level (in/sec)	0.030

Receptor: 7608 Alondra Blvd.
Equipment: Loaded Trucks

Source PPV (in/sec)	0.076
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	75
Vibration Level (in/sec)	0.025

15932 Minnesota Avenue Project

Receptor: 7605 Monroe St.
Equipment: Small Dozer-Type Equipment

Source PPV (in/sec)	0.003
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.005

Receptor: 7605 Monroe St.
Equipment: Jackhammer

Source PPV (in/sec)	0.035
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.058

Receptor: 15939 Illinois Ave.
Equipment: Small Dozer-Type Equipment

Source PPV (in/sec)	0.003
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.005

Receptor: 15939 Illinois Ave.
Equipment: Jackhammer

Source PPV (in/sec)	0.035
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	15
Vibration Level (in/sec)	0.058

Receptor: 7608 Alondra Blvd.
Equipment: Small Dozer-Type Equipment

Source PPV (in/sec)	0.003
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	75
Vibration Level (in/sec)	0.001

Receptor: 7608 Alondra Blvd.
Equipment: Jackhammer

Source PPV (in/sec)	0.035
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	75
Vibration Level (in/sec)	0.012

Sources

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