

# **Appendix H**

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Noise Measurements and Modeling Worksheets

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 180244  
**Project Name:** Bridge Point South Bay VII  
**Scenario:** Existing

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Traffic Impact Analysis  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Sepulveda Boulevard													
West of Western Avenue	6	14	48,733	40	0.5	1.8%	0.7%	67.5	68	147	317	683	100
East of Western Avenue	6	14	53,911	40	0.5	1.8%	0.7%	68.0	73	157	339	731	100
West of Halldale Avenue	6	14	53,189	40	0.5	1.8%	0.7%	67.9	72	156	336	724	100
West of Normandie Avenue	6	16	53,715	40	0.5	1.8%	0.7%	68.0	73	158	340	732	100
East of Normandie Avenue	6	14	55,247	40	0.5	1.8%	0.7%	68.1	74	160	345	743	100
Western Avenue													
North of Sepulveda Boulevard	6	15	32,085	40	0.5	1.8%	0.7%	65.7	-	112	240	518	100
South of Sepulveda Boulevard	6	15	34,846	40	0.5	1.8%	0.7%	66.1	-	118	254	547	100
Normandie Avenue													
North of Sepulveda Boulevard	4	10	19,243	40	0.5	1.8%	0.7%	63.2	-	76	163	351	100
South of Sepulveda Boulevard	4	10	18,410	45	0.5	1.8%	0.7%	64.2	-	88	190	410	100

"-" = contour is located within the roadway right-of-way.

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 180244  
**Project Name:** Bridge Point South Bay VII  
**Scenario:** Existing+Project

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Traffic Impact Analysis  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Sepulveda Boulevard													
West of Western Avenue	6	14	48,837	40	0.5	1.8%	0.7%	67.5	68	147	317	684	100
East of Western Avenue	6	14	54,124	40	0.5	1.8%	0.7%	68.0	73	158	340	733	100
West of Halldale Avenue	6	14	53,402	40	0.5	1.8%	0.7%	67.9	73	156	337	726	100
West of Normandie Avenue	6	16	54,597	40	0.5	1.8%	0.7%	68.0	74	159	343	740	100
East of Normandie Avenue	6	14	56,032	40	0.5	1.8%	0.7%	68.1	75	162	348	750	100
Western Avenue													
North of Sepulveda Boulevard	6	15	32,140	40	0.5	1.8%	0.7%	65.7	-	112	241	519	100
South of Sepulveda Boulevard	6	15	34,901	40	0.5	1.8%	0.7%	66.1	-	118	254	548	100
Normandie Avenue													
North of Sepulveda Boulevard	4	10	19,292	40	0.5	1.8%	0.7%	63.2	-	76	163	352	100
South of Sepulveda Boulevard	4	10	18,459	45	0.5	1.8%	0.7%	64.2	-	88	190	410	100

"-" = contour is located within the roadway right-of-way.

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 180244  
**Project Name:** Bridge Point South Bay VII  
**Scenario:** 2022

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Traffic Impact Analysis  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Sepulveda Boulevard													
West of Western Avenue	6	14	49,713	40	0.5	1.8%	0.7%	67.6	69	149	321	692	100
East of Western Avenue	6	14	54,994	40	0.5	1.8%	0.7%	68.0	74	160	344	740	100
West of Halldale Avenue	6	14	54,258	40	0.5	1.8%	0.7%	68.0	73	158	341	734	100
West of Normandie Avenue	6	16	54,795	40	0.5	1.8%	0.7%	68.1	74	160	344	742	100
East of Normandie Avenue	6	14	56,358	40	0.5	1.8%	0.7%	68.1	75	162	349	753	100
Western Avenue													
North of Sepulveda Boulevard	6	15	32,729	40	0.5	1.8%	0.7%	65.8	-	113	244	525	100
South of Sepulveda Boulevard	6	15	35,547	40	0.5	1.8%	0.7%	66.2	-	120	257	555	100
Normandie Avenue													
North of Sepulveda Boulevard	4	10	19,629	40	0.5	1.8%	0.7%	63.3	-	77	165	356	100
South of Sepulveda Boulevard	4	10	18,780	45	0.5	1.8%	0.7%	64.3	-	89	193	415	100

"-" = contour is located within the roadway right-of-way.

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 180244  
**Project Name:** Bridge Point South Bay VII  
**Scenario:** 2022+Project

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Traffic Impact Analysis  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Sepulveda Boulevard													
West of Western Avenue	6	14	49,817	40	0.5	1.8%	0.7%	67.6	69	149	322	693	100
East of Western Avenue	6	14	55,207	40	0.5	1.8%	0.7%	68.1	74	160	345	742	100
West of Halldale Avenue	6	14	54,471	40	0.5	1.8%	0.7%	68.0	74	158	341	736	100
West of Normandie Avenue	6	16	55,677	40	0.5	1.8%	0.7%	68.1	75	162	348	750	100
East of Normandie Avenue	6	14	57,143	40	0.5	1.8%	0.7%	68.2	76	164	353	760	100
Western Avenue													
North of Sepulveda Boulevard	6	15	32,784	40	0.5	1.8%	0.7%	65.8	-	113	244	526	100
South of Sepulveda Boulevard	6	15	35,602	40	0.5	1.8%	0.7%	66.2	-	120	258	555	100
Normandie Avenue													
North of Sepulveda Boulevard	4	10	19,678	40	0.5	1.8%	0.7%	63.3	-	77	165	356	100
South of Sepulveda Boulevard	4	10	18,829	45	0.5	1.8%	0.7%	64.3	-	90	193	416	100

"-" = contour is located within the roadway right-of-way.

# Measurement Report

## Report Summary

Meter's File Name	LxT_Data.001	Computer's File Name	SLM_0004671_LxT_Data_001.02.lbin
Meter	LxT1		
Firmware	2.404		
User	GT		Location
Description	Bridge Point Southbay VII		
Note	Located on east side of Project Site near NW corner of Apartment Building		
Start Time	2020-10-13 12:28:42	Duration	24:00:00.0
End Time	2020-10-14 12:28:42	Run Time	24:00:00.0
		Pause Time	0:00:00.0

## Results

### Overall Metrics

LA <sub>eq</sub>	51.8 dB		
LAE	101.1 dB	SEA	--- dB
EA	1.4 mPa <sup>2</sup> h		
EA8	481.9 μPa <sup>2</sup> h		
EA40	2.4 mPa <sup>2</sup> h		
LZS <sub>peak</sub>	109.1 dB	2020-10-13 16:45:22	
LAS <sub>max</sub>	75.8 dB	2020-10-14 05:42:09	
LAS <sub>min</sub>	40.3 dB	2020-10-14 00:54:17	
LA <sub>eq</sub>	51.8 dB		
LC <sub>eq</sub>	66.2 dB	LC <sub>eq</sub> - LA <sub>eq</sub>	14.4 dB
LAI <sub>eq</sub>	53.7 dB	LAI <sub>eq</sub> - LA <sub>eq</sub>	1.9 dB

### Exceedances

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

### Community Noise

LDN	LDay	LNight
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--- dB      --- dB      0.0 dB

### LDEN

--- dB      LDay      LEve      LNight

--- dB      --- dB      --- dB      --- dB

### Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L <sub>eq</sub>	51.8 dB		--- dB		--- dB	
LS <sub>(max)</sub>	75.8 dB	2020-10-14 05:42:09	--- dB		--- dB	
LS <sub>(min)</sub>	40.3 dB	2020-10-14 00:54:17	--- dB		--- dB	
L <sub>Peak(max)</sub>	--- dB		--- dB		109.1 dB	2020-10-13 16:45:22

### Overloads

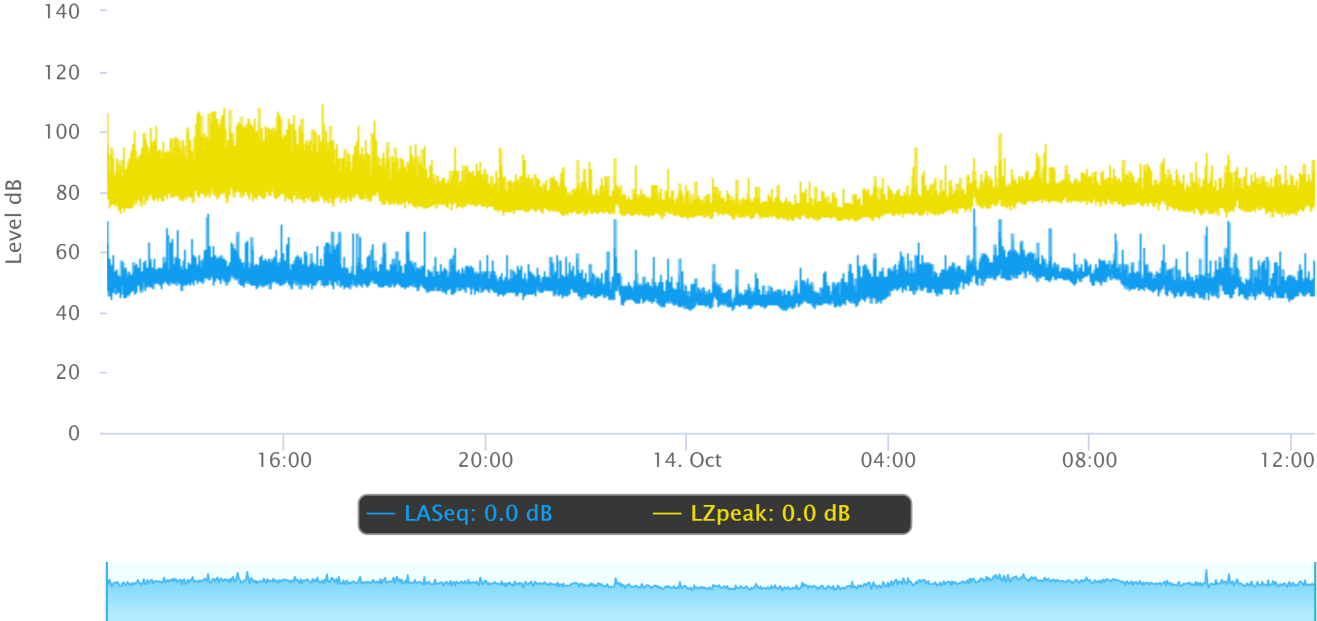
Count      Duration

0      0:00:00.0

### Statistics

LAS 5.0	55.9 dB
LAS 10.0	54.4 dB
LAS 33.3	51.5 dB
LAS 50.0	49.9 dB
LAS 66.6	48.2 dB
LAS 90.0	44.4 dB

# Time History



# Measurement Report

## Report Summary

Meter's File Name	LxT_Data.001	Computer's File Name	SLM_0006082_LxT_Data_001.03.lbin
Meter	LxT1		
Firmware	2.404		
User	GT	Location	
Description	Bridge Point Southbay VII		
Note	East side of Project Site, adjacent to south side of Apartment Building		
Start Time	2020-10-13 12:35:03	Duration	24:00:00.0
End Time	2020-10-14 12:35:03	Run Time	24:00:00.0
		Pause Time	0:00:00.0

## Results

### Overall Metrics

LA <sub>eq</sub>	56.5 dB		
LAE	105.9 dB	SEA	--- dB
EA	4.3 mPa <sup>2</sup> h		
EA8	1.4 mPa <sup>2</sup> h		
EA40	7.2 mPa <sup>2</sup> h		
LZS <sub>peak</sub>	110.5 dB	2020-10-13 12:35:51	
LAS <sub>max</sub>	81.3 dB	2020-10-13 14:28:34	
LAS <sub>min</sub>	44.2 dB	2020-10-14 01:58:13	
LA <sub>eq</sub>	56.5 dB		
LC <sub>eq</sub>	67.4 dB	LC <sub>eq</sub> - LA <sub>eq</sub>	10.9 dB
LAI <sub>eq</sub>	58.3 dB	LAI <sub>eq</sub> - LA <sub>eq</sub>	1.8 dB

### Exceedances

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

### Community Noise

LDN	LDay	LNight
--- dB	--- dB	0.0 dB

LDEN	LDay	LEve	LNight
--- dB	--- dB	--- dB	--- dB

### Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L <sub>eq</sub>	56.5 dB		--- dB		--- dB	
LS <sub>(max)</sub>	81.3 dB	2020-10-13 14:28:34	--- dB		--- dB	
LS <sub>(min)</sub>	44.2 dB	2020-10-14 01:58:13	--- dB		--- dB	
L <sub>Peak(max)</sub>	--- dB		--- dB		110.5 dB	2020-10-13 12:35:51

### Overloads

Count	Duration
0	0:00:00.0

### Statistics

LAS 5.0	60.4 dB
LAS 10.0	59.0 dB
LAS 33.3	56.3 dB
LAS 50.0	54.9 dB
LAS 66.6	53.3 dB
LAS 90.0	49.7 dB





# Measurement Report

## Report Summary

Meter's File Name	LxT_Data.001	Computer's File Name	SLM_0004209_LxT_Data_001.03.ldbin
Meter	LxT1		
Firmware	2.404		
User	GT	Location	
Description	Bridge Point Southbay VII		
Note	South side of Sepulveda Blvd		
Start Time	2020-10-13 12:48:28	Duration	24:00:00.0
End Time	2020-10-14 12:48:28	Run Time	0:00:00.5
		Pause Time	23:59:59.5

## Results

### Overall Metrics

LA <sub>eq</sub>	70.9 dB		
LAE	67.9 dB	SEA	--- dB
EA	0.7 μPa²h		
EA8	39.6 mPa²h		
EA40	197.8 mPa²h		
LZS <sub>peak</sub>	89.8 dB	2020-10-13 12:48:28	
LAS <sub>max</sub>	71.4 dB	2020-10-13 12:48:28	
LAS <sub>min</sub>	70.7 dB	2020-10-13 12:48:28	
LA <sub>eq</sub>	70.9 dB		
LC <sub>eq</sub>	74.1 dB	LC <sub>eq</sub> - LA <sub>eq</sub>	3.2 dB
LAI <sub>eq</sub>	79.2 dB	LAI <sub>eq</sub> - LA <sub>eq</sub>	8.2 dB

### Exceedances

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

### Community Noise

LDN	LDay	LNight
--- dB	--- dB	0.0 dB

LDEN	LDay	LEve	LNight
--- dB	--- dB	--- dB	--- dB

### Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L <sub>eq</sub>	72.3 dB		--- dB		--- dB	
LS <sub>(max)</sub>	71.4 dB	2020-10-13 12:48:28	--- dB		--- dB	
LS <sub>(min)</sub>	70.7 dB	2020-10-13 12:48:28	--- dB		--- dB	
L <sub>Peak(max)</sub>	--- dB		--- dB		89.8 dB	2020-10-13 12:48:28

### Overloads

Count	Duration
0	0:00:00.0

### Statistics

LAS 5.0	71.4 dB
LAS 10.0	71.2 dB
LAS 33.3	71.0 dB
LAS 50.0	70.8 dB
LAS 66.6	70.8 dB
LAS 90.0	70.7 dB

# Time History

