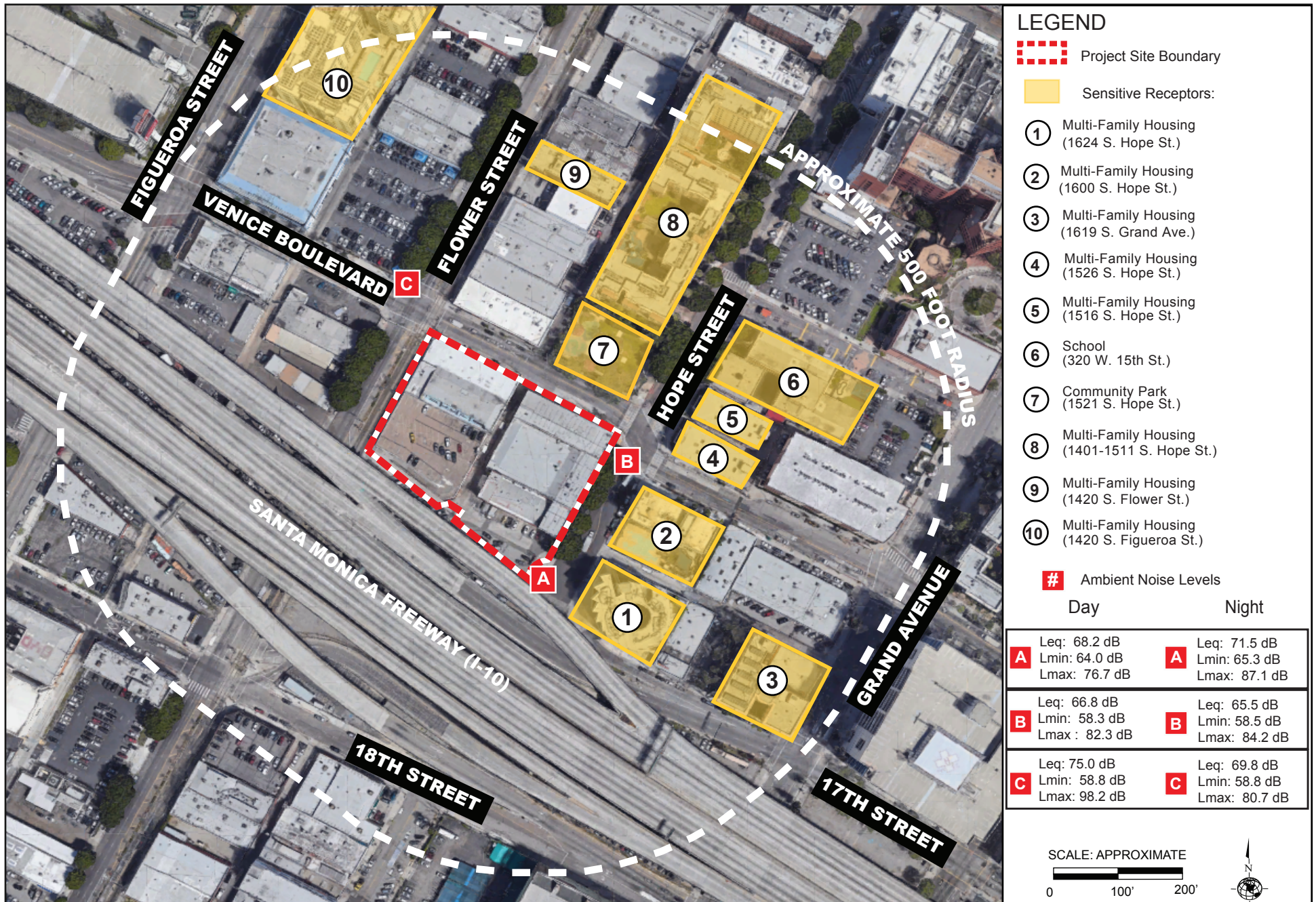


APPENDIX E:
NOISE MONITORING DATA AND CALCULATIONS WORKSHEETS

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Source: Google Earth, Aerial View, 2018.

Summary

File Name on Meter 831_Data.111
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Adrianna Gjonaj
Job Description South Park Towers
Location A: On the southeast corner of the Project Site, west of Hope Street
Noise Sources: Light vehicle traffic, 10 Freeway


Measurement

Description
Start 2018-09-10 10:37:17
Stop 2018-09-10 10:52:17
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2018-09-10 10:31:45
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weighting	A Weighting		
Peak Weighting	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	143.1 dB		
	A	C	Z
Under Range Peak	75.5	72.5	77.5 dB
Under Range Limit	26.1	26.4	31.8 dB
Noise Floor	17.0	17.2	22.4 dB

Results

LAeq	68.2 dB	
LAE	97.7 dB	
EA	656.576 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2018-09-10 10:42:41	101.7 dB
LASmax	2018-09-10 10:38:00	76.7 dB
LASmin	2018-09-10 10:40:19	64.0 dB
SEA	-99.9 dB	

LAS > 65.0 dB (Exceedance Counts / Duration)	1	899.9 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	68.2	68.2	68.2	68.2
LCeq	78.1 dB			
LAeq	68.2 dB			
LCeq - LAeq	9.9 dB			
LAleq	68.9 dB			
LAeq	68.2 dB			
LAleq - LAeq	0.7 dB			

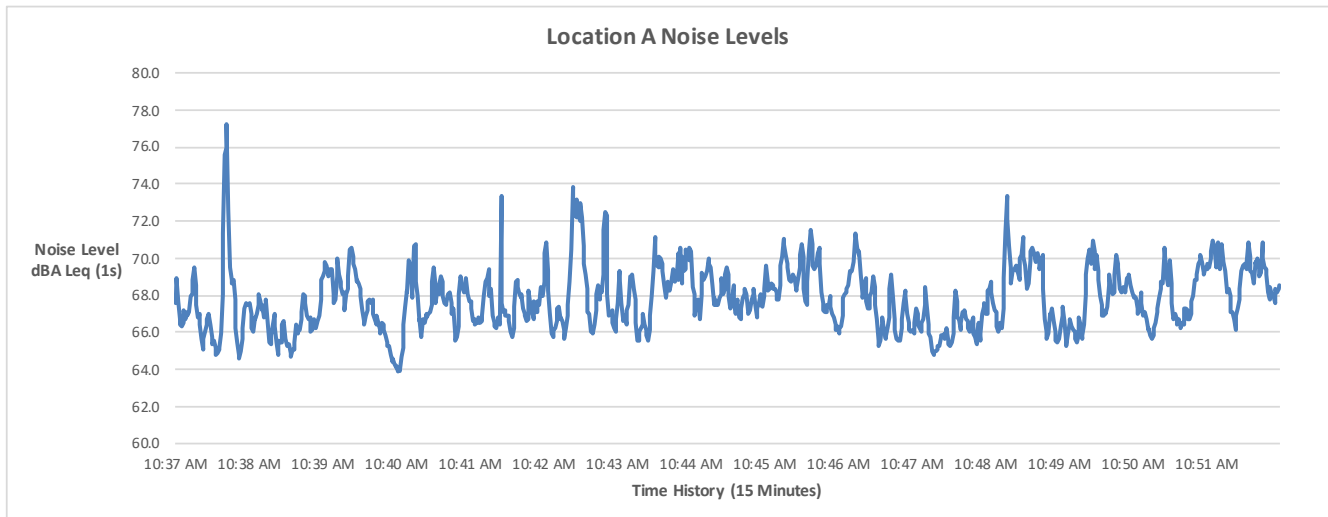
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
68.2		
76.7	2018/09/10 10:38:00	
78.3	2018/09/10 10:38:00	
81.5	2018/09/10 10:41:42	
64.0	2018/09/10 10:40:19	
63.4	2018/09/10 10:40:19	
63.8	2018/09/10 10:40:19	
91.6	2018/09/10 10:41:42	

Overloads 0
 Overload Duration 0.0 s

Statistics

LAS5.00 70.4 dB
 LAS10.00 69.9 dB
 LAS33.30 68.4 dB
 LAS50.00 67.7 dB
 LAS66.60 66.9 dB
 LAS90.00 65.9 dB



Summary

File Name on Meter 831_Data.112
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Adrianna Gjonaj
Job Description South Park Towers
Location B: On the northeast corner of the intersection of Hope Street and Venice Boulevard
Noise Sources: Vehicle traffic, delivery trucks, buses, light pedestrian traffic


Measurement

Description
Start 2018-09-10 10:55:06
Stop 2018-09-10 11:10:06
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2018-09-10 10:31:45
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	143.1 dB		
	A	C	Z
Under Range Peak	75.5	72.5	77.5 dB
Under Range Limit	26.1	26.4	31.8 dB
Noise Floor	17.0	17.2	22.4 dB

Results

LAeq	66.8 dB	
LAE	96.3 dB	
EA	479.288 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2018-09-10 11:07:01	107.2 dB
LASmax	2018-09-10 11:07:02	82.3 dB
LASmin	2018-09-10 11:01:29	58.3 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	26	437.9 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	66.8	66.8	66.8	66.8
LCeq	79.1 dB			
LAeq	66.8 dB			
LCeq - LAeq	12.3 dB			
LAleq	68.3 dB			
LAeq	66.8 dB			
LAleq - LAeq	1.5 dB			

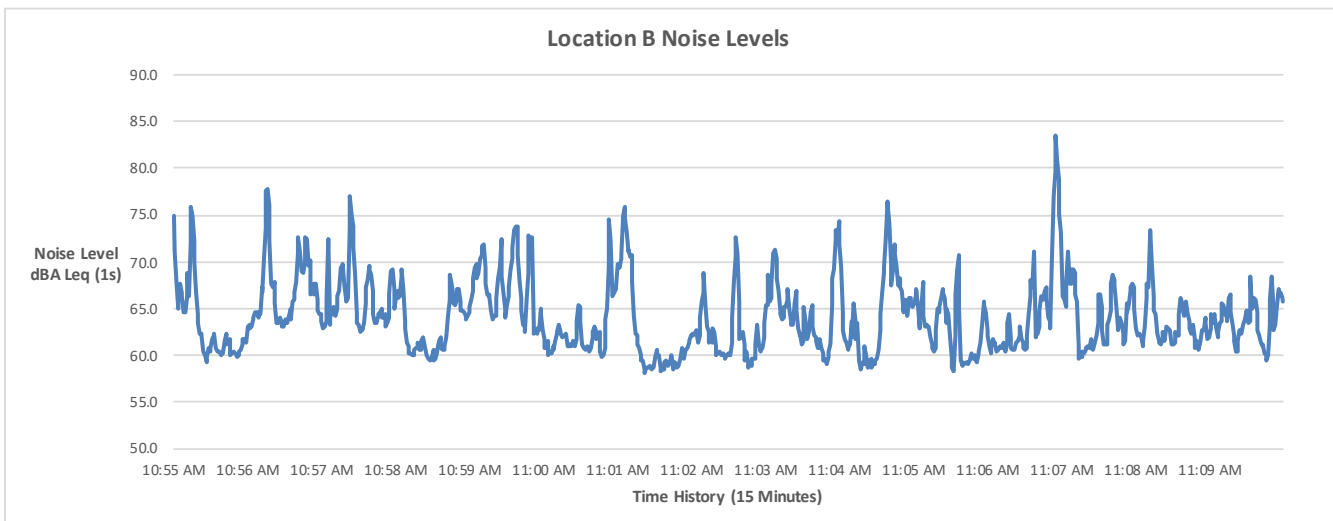
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
66.8		
82.3	2018/09/10	11:07:02
84.6	2018/09/10	11:07:02
85.7	2018/09/10	11:07:01
58.3	2018/09/10	11:01:29
57.8	2018/09/10	11:01:29
58.0	2018/09/10	11:01:29
95.8	2018/09/10	11:03:13

Overloads 0
 Overload Duration 0.0 s

Statistics

LAS5.00 72.0 dB
 LAS10.00 69.8 dB
 LAS33.30 65.4 dB
 LAS50.00 63.7 dB
 LAS66.60 62.0 dB
 LAS90.00 60.1 dB



Summary

File Name on Meter 831_Data.113
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Adrianna Gjonaj
Job Description South Park Towers
Location C: On the northwest corner of the intersection of Venice Boulevard and Flower Street
Noise Sources: Heavy vehicle traffic, buses, Metro Rail, firetruck


Measurement

Description
Start 2018-09-10 11:13:26
Stop 2018-09-10 11:28:26
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2018-09-10 10:31:45
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
Peak Weight Z Weighting
Detector Slow
Preamp PRM831
Microphone Correction Off
Integration Method Linear
Gain 0.0 dB
Overload 143.1 dB

	A	C	Z
Under Range Peak	75.5	72.5	77.5 dB
Under Range Limit	26.1	26.4	31.8 dB
Noise Floor	17.0	17.2	22.4 dB

Results

LAeq	75.0 dB	
LAE	104.5 dB	
EA	3.148 mPa ² h	
LZpeak (max)	2018-09-10 11:18:39	111.0 dB
LASmax	2018-09-10 11:18:39	98.2 dB
LASmin	2018-09-10 11:20:43	58.8 dB
SEA	-99.9 dB	

LAS > 65.0 dB (Exceedance Counts / Duration)	20	648.6 s
LAS > 85.0 dB (Exceedance Counts / Duration)	2	8.5 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	75.0	75.0	75.0	75.0

LCeq	81.3 dB
LAeq	75.0 dB
LCeq - LAeq	6.4 dB
LAleq	80.2 dB
LAeq	75.0 dB
LAleq - LAeq	5.3 dB

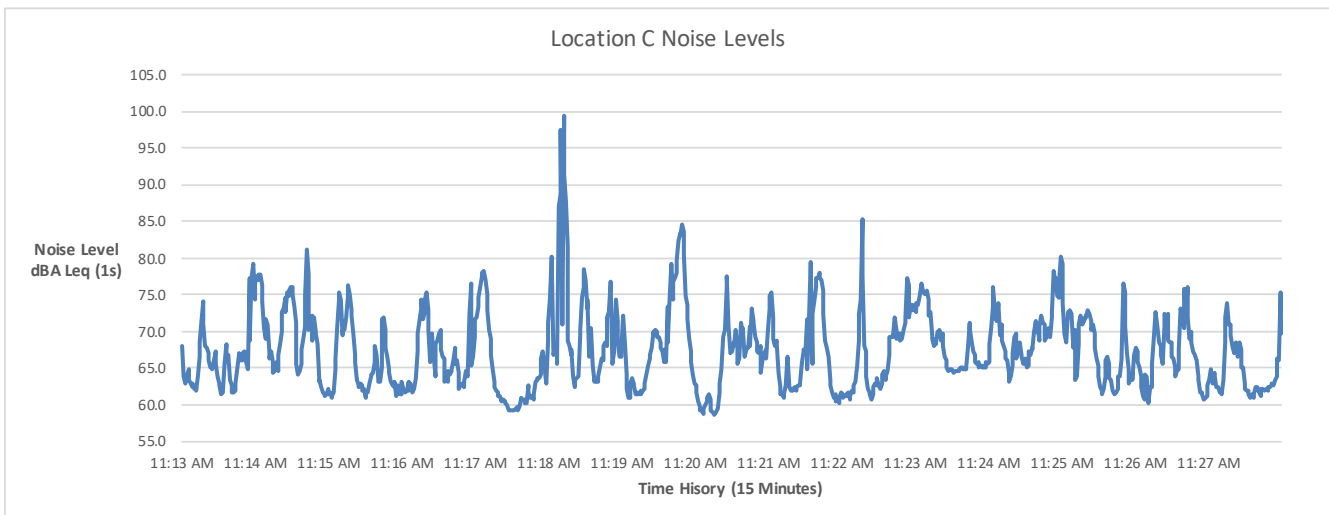
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
75.0		
98.2	2018/09/10 11:18:39	
103.4	2018/09/10 11:18:39	
104.9	2018/09/10 11:18:39	
58.8	2018/09/10 11:20:43	
58.3	2018/09/10 11:20:43	
58.5	2018/09/10 11:20:42	
110.0	2018/09/10 11:18:39	

Overloads 0
 Overload Duration 0.0 s

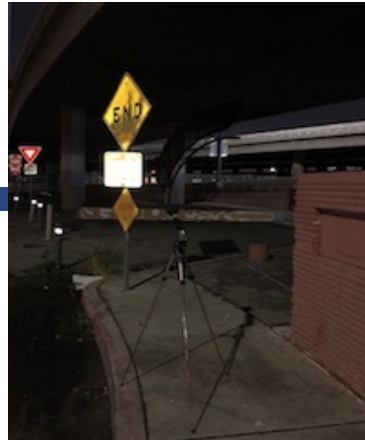
Statistics

LAS5.00 77.0 dB
 LAS10.00 75.0 dB
 LAS33.30 69.6 dB
 LAS50.00 66.9 dB
 LAS66.60 64.6 dB
 LAS90.00 61.7 dB



Summary

File Name on Meter 831_Data.159
 Serial Number 0003748
 Model Model 831
 Firmware Version 2.311
 User Shane Parker
 Job Description South Park Towers
 Location A: On the southeast corner of the Project Site, west of Hope Street
 Noise Sources: Light vehicle traffic, 10 Freeway


Measurement

Description
 Start 2019-02-14 21:38:04
 Stop 2019-02-14 21:53:04
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-02-14 20:24:12
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.7 dB		
	A	C	Z
Under Range Peak	75.1	72.1	77.1 dB
Under Range Limit	26.1	26.3	31.5 dB
Noise Floor	16.9	17.1	22.2 dB

Results

LAeq	71.5 dB	
LAE	101.1 dB	
EA	1.416 mPa ² h	
LZpeak (max)	2019-02-14 21:45:03	104.5 dB
LASmax	2019-02-14 21:45:03	87.1 dB
LASmin	2019-02-14 21:40:07	65.3 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	1	899.9 s
LAS > 85.0 dB (Exceedance Counts / Duration)	1	1.7 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	LDay 07:00-19:00	LEvening 19:00-22:00
	71.5	71.5	-99.9	71.5

LCeq	77.5 dB
LAeq	71.5 dB
LCeq - LAeq	6.0 dB
LAlaq	73.7 dB
LAeq	71.5 dB
LAlaq - LAeq	2.2 dB

Leq
 Ls(max)
 Lf(max)
 Li(max)
 Ls(min)
 Lf(min)
 Li(min)
 LPeak(max)

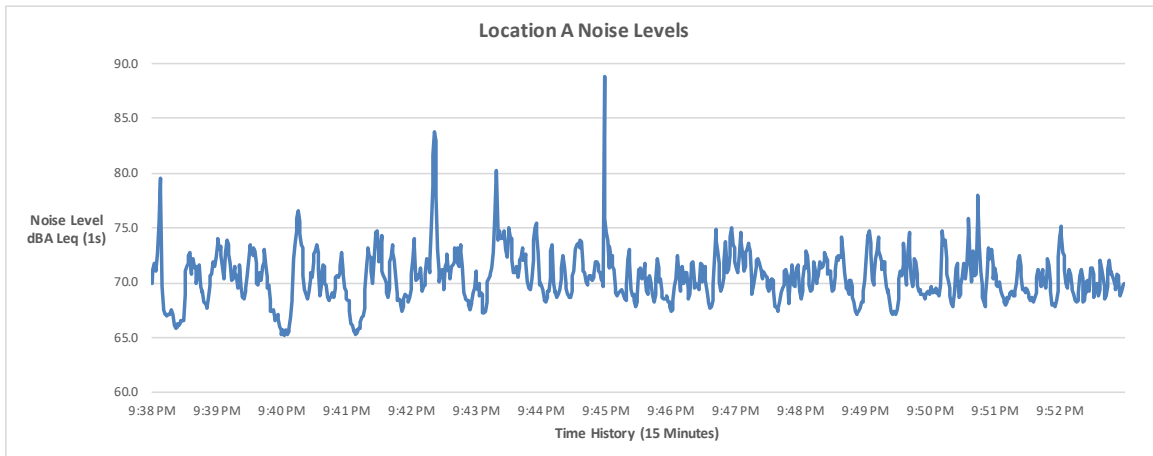
A	
dB	Time Stamp
71.5	
87.1	2019/02/14 21:45:03
94.0	2019/02/14 21:45:03
96.5	2019/02/14 21:45:03
65.3	2019/02/14 21:40:07
64.8	2019/02/14 21:40:07
65.1	2019/02/14 21:40:05
104.4	2019/02/14 21:45:03

Overloads
 Overload Duration

0
 0.0 s

Statistics

LAS5.00 74.2 dB
 LAS10.00 73.2 dB
 LAS33.30 71.3 dB
 LAS50.00 70.5 dB
 LAS66.60 69.6 dB
 LAS90.00 68.2 dB



Summary

File Name on Meter 831_Data.161
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Shane Parker
Job Description South Park Towers
Location B: On the northeast corner of the intersection of Hope Street and Venice Boulevard
Noise Sources: Vehicle traffic, light pedestrian traffic

Measurement

Description
Start 2019-02-14 22:20:31
Stop 2019-02-14 22:35:31
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-02-14 20:24:12
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
Peak Weight Z Weighting
Detector Slow
Preamp PRM831
Microphone Correction Off
Integration Method Linear
Gain 0.0 dB
Overload 142.7 dB

	A	C	Z
Under Range Peak	75.1	72.1	77.1 dB
Under Range Limit	26.1	26.3	31.5 dB
Noise Floor	16.9	17.1	22.2 dB

Results

LAeq 65.5 dB
LAE 95.0 dB
EA 354.371 $\mu\text{Pa}^2\text{h}$
LZpeak (max) 2019-02-14 22:33:25 104.4 dB
LASmax 2019-02-14 22:31:40 84.2 dB
LASmin 2019-02-14 22:22:16 58.5 dB
SEA -99.9 dB

LAS > 65.0 dB (Exceedance Counts / Duration)	24	324.8 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LNight 22:00-07:00	Lden	LNight 22:00-07:00
	75.5	65.5	75.5	65.5

LCeq 75.6 dB
LAeq 65.5 dB
LCeq - LAeq 10.1 dB
LAleq 67.9 dB
LAeq 65.5 dB
LAleq - LAeq 2.4 dB



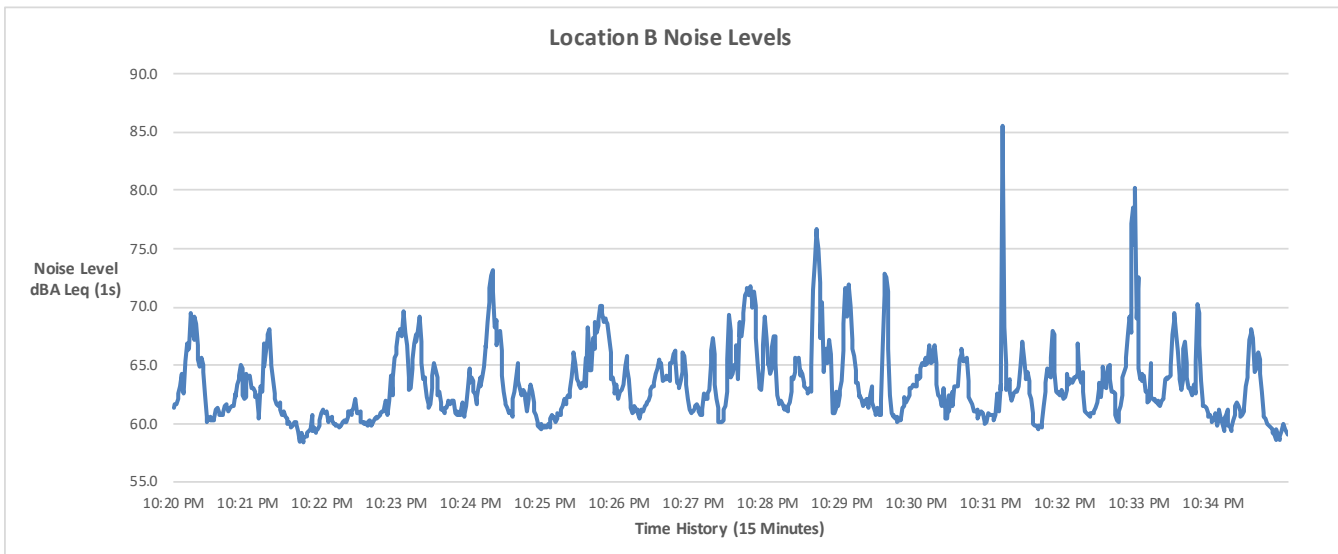
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
65.5		
84.2	2019/02/14	22:31:40
88.9	2019/02/14	22:31:40
90.1	2019/02/14	22:31:40
58.5	2019/02/14	22:22:16
57.9	2019/02/14	22:22:15
58.3	2019/02/14	22:35:24
97.9	2019/02/14	22:31:40

Overloads 0
 Overload Duration 0.0 s

Statistics

LAS5.00 69.6 dB
 LAS10.00 67.8 dB
 LAS33.30 64.1 dB
 LAS50.00 62.8 dB
 LAS66.60 61.6 dB
 LAS90.00 60.2 dB



Summary

File Name on Meter 831_Data.160
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Shane Parker
Job Description South Park Towers
Location C: On the northwest corner of the intersection of Venice Boulevard and Flower Street
Noise Sources: Heavy vehicle traffic, Metro Rail, buses



Measurement

Description
Start 2019-02-14 22:02:16
Stop 2019-02-14 22:17:16
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-02-14 20:24:12
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.7 dB		
	A	C	Z
Under Range Peak	75.1	72.1	77.1 dB
Under Range Limit	26.1	26.3	31.5 dB
Noise Floor	16.9	17.1	22.2 dB

Results

LAeq	69.8 dB	
LAE	99.3 dB	
EA	954.864 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2019-02-14 22:05:21	101.5 dB
LASmax	2019-02-14 22:14:42	80.7 dB
LASmin	2019-02-14 22:15:43	58.8 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	13	727.7 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LNight 22:00-07:00	Lden	LNight 22:00-07:00
	79.8	69.8	79.8	69.8
LCeq	78.1 dB			
LAeq	69.8 dB			
LCeq - LAeq	8.3 dB			
LAleq	71.8 dB			
LAeq	69.8 dB			
LAleq - LAeq	2.0 dB			

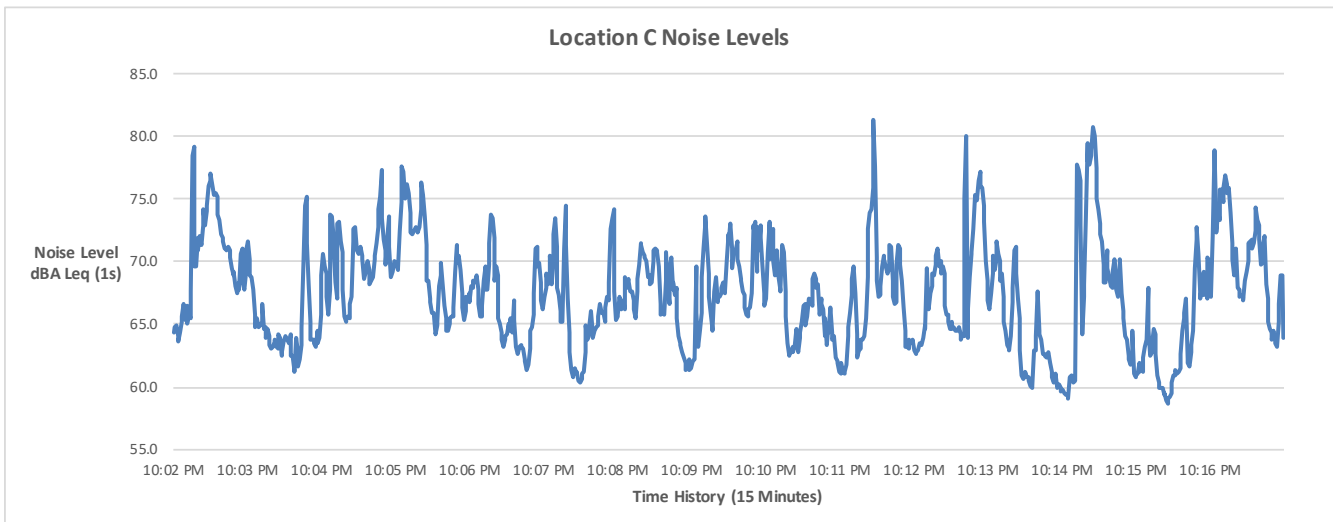
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
69.8		
80.7	2019/02/14	22:14:42
84.5	2019/02/14	22:14:41
85.9	2019/02/14	22:14:41
58.8	2019/02/14	22:15:43
58.2	2019/02/14	22:15:41
58.5	2019/02/14	22:15:41
96.2	2019/02/14	22:14:41

Overloads 0
 Overload Duration 0.0 s

Statistics

LAS5.00 75.4 dB
 LAS10.00 73.1 dB
 LAS33.30 69.5 dB
 LAS50.00 67.6 dB
 LAS66.60 65.4 dB
 LAS90.00 62.2 dB



Construction Noise Impact Summary - All Phases

#	Address	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Level Impact (dBA Leq) by Phase					Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
					Demo	Grading	Building	Coating	Paving		
1	1624 S. Hope St.	Residential	68.20	80	81.8	80.1	79.90	77.5	80.7	73.2	8.6
2	1600 S. Hope St.	Residential	68.20	80	81.8	80.1	79.90	77.5	80.7	73.2	8.6
3	1619 S. Grand Ave	Residential	68.20	330	54.5	52.7	52.59	52.9	53.4	73.2	0.0
4	1526 S. Hope St	Residential	66.80	80	81.8	80.1	79.90	77.5	80.7	71.8	10.0
5	1516 S. Hope St	Residential	66.80	110	79.0	77.3	77.13	74.7	77.9	71.8	7.2
6	320 W. 15th St	School	66.80	150	61.3	59.6	59.44	72.0	60.2	71.8	0.2
7	1521 S. Hope St	Park	66.80	60	84.3	82.5	82.39	80.0	83.2	71.8	12.5
8	1401 S. Hope St	Residential	66.80	160	75.8	74.0	73.70	71.5	74.7	71.8	4.0
9	1420 S. Flower St	Residential	75.00	315	54.9	53.1	52.81	52.5	53.8	80.0	0.0
10	1420 S. Figueroa St.	Residential	75.00	350	54.0	52.2	51.90	51.5	52.9	80.0	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Report date: 3/9/19
 Project: South Park Towers
 Phase: Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1624 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Concrete Saw		No	20		89.6	80	0	85.5	78.5
Dozer		No	40		81.7	80	0	77.6	73.6
Tractor		No	40	84		80	0	79.9	75.9
Backhoe		No	40		77.6	80	0	73.5	69.5
Backhoe		No	40		77.6	80	0	73.5	69.5
Results									81.8

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1600 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Concrete Saw		No	20		89.6	80	0	85.5	78.5
Dozer		No	40		81.7	80	0	77.6	73.6
Tractor		No	40	84		80	0	79.9	75.9
Backhoe		No	40		77.6	80	0	73.5	69.5
Backhoe		No	40		77.6	80	0	73.5	69.5
Results									81.8

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1619 S. Grand Ave	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Concrete Saw		No	20		89.6	330	15	58.2	51.2
Dozer		No	40		81.7	330	15	50.3	46.3
Tractor		No	40	84		330	15	52.6	48.6
Backhoe		No	40		77.6	330	15	46.2	42.2
Backhoe		No	40		77.6	330	15	46.2	42.2
Results									54.5

Construction Noise Calculation Worksheets

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1526 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	80	0	85.5	78.5
Dozer	No	40		81.7	80	0	77.6	73.6
Tractor	No	40	84		80	0	79.9	75.9
Backhoe	No	40		77.6	80	0	73.5	69.5
Backhoe	No	40		77.6	80	0	73.5	69.5
Results							81.8	

---- Receptor #5 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1516 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	110	0	82.8	75.8
Dozer	No	40		81.7	110	0	74.9	70.9
Tractor	No	40	84		110	0	77.2	73.2
Backhoe	No	40		77.6	110	0	70.8	66.8
Backhoe	No	40		77.6	110	0	70.8	66.8
Results							79.0	

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
320 W. 15th St	School	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	150	15	65.1	58.1
Dozer	No	40		81.7	150	15	57.2	53.2
Tractor	No	40	84		150	15	59.5	55.5
Backhoe	No	40		77.6	150	15	53.1	49.1
Backhoe	No	40		77.6	150	15	53.1	49.1
Results							61.3	

Construction Noise Calculation Worksheets

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1521 S. Hope St	Park	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	60	0	88.0	81.0
Dozer	No	40		81.7	60	0	80.1	76.1
Tractor	No	40	84		60	0	82.4	78.4
Backhoe	No	40		77.6	60	0	76.0	72.0
Backhoe	No	40		77.6	60	0	76.0	72.0
Results							84.3	

---- Receptor #8 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1401 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	160	0	79.5	72.5
Dozer	No	40		81.7	160	0	71.6	67.6
Tractor	No	40	84		160	0	73.9	69.9
Backhoe	No	40		77.6	160	0	67.5	63.5
Backhoe	No	40		77.6	160	0	67.5	63.5
Results							75.8	

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1420 S. Flower St	Residential	75	69.8	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Concrete Saw	No	20		89.6	315	15	58.6	51.6
Dozer	No	40		81.7	315	15	50.7	46.7
Tractor	No	40	84		315	15	53.0	49.0
Backhoe	No	40		77.6	315	15	46.6	42.6
Backhoe	No	40		77.6	315	15	46.6	42.6
Results							54.9	

Construction Noise Calculation Worksheets

---- Receptor #10 ----

		Baselines (dBA)						
Description	Land Use	Daytime	Evening	Night				
1420 S. Figueroa St.	Residential	75	69.8	40				
					Equipment			
				Spec	Actual	Receptor	Estimated	
	Impact			Lmax	Lmax	Distance	Shielding	Calculated (dBA)
Description	Device	Usage(%)		(dBA)	(dBA)	(feet)	(dBA)	*Lmax Leq
Concrete Saw	No	20			89.6	350	15	57.7 50.7
Dozer	No	40			81.7	350	15	49.8 45.8
Tractor	No	40	84			350	15	52.1 48.1
Backhoe	No	40			77.6	350	15	45.7 41.7
Backhoe	No	40			77.6	350	15	45.7 41.7
Results								54.0

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Demolition Phase Impact Summary

Receptor #	Address	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Noise Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1	1624 S. Hope St.	Residential	68.2	80	81.8	73.2	8.6
2	1600 S. Hope St.	Residential	68.2	80	81.8	73.2	8.6
3	1619 S. Grand Ave	Residential	68.2	330	54.5	73.2	0.0
4	1526 S. Hope St	Residential	66.8	80	81.8	71.8	10.0
5	1516 S. Hope St	Residential	66.8	110	79.0	71.8	7.2
6	320 W. 15th St	School	66.8	150	61.3	71.8	0.0
7	1521 S. Hope St	Park	66.8	60	84.3	71.8	12.5
8	1401 S. Hope St	Residential	66.8	160	75.8	71.8	4.0
9	1420 S. Flower St	Residential	75	315	54.9	80	0.0
10	1420 S. Figueroa St.	Residential	75	350	54.0	80	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Report date: 3/9/19
 Project: South Park Towers
 Phase: Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)										
		Daytime	Evening	Night								
1624 S. Hope St.	Residential	68.2	71.5	40								
Description		Equipment			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)			
		Impact Device	Usage(%)								*Lmax	Leq
Excavator		No	40		81.0	80	0	76.9	72.9			
Dozer		No	40		81.7	80	0	77.6	73.6			
Grader		No	40	85.0		80	0	80.9	76.9			
Backhoe		No	40		77.6	80	0	73.5	69.5			

Results 80.1

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)							
		Daytime	Evening	Night					
1600 S. Hope St.	Residential	68.2	71.5	40					
Description	Impact	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
				Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40			81.0	80	0	76.9	72.9
Dozer	No	40			81.7	80	0	77.6	73.6
Grader	No	40		85.0		80	0	80.9	76.9
Backhoe	No	40			77.6	80	0	73.5	69.5

Results 80.1

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)							
		Daytime	Evening	Night					
1619 S. Grand Ave	Residential	68.2	71.5	40					
Description	Impact	Device	Usage(%)	Equipment		Receptor	Estimated		
				Spec	Actual				
				Lmax	Lmax			Distance	Shielding
				(dBA)	(dBA)	(feet)	(dBA)	*Lmax	Leq
Excavator	No	40			81.0	330	15	49.6	45.6
Dozer	No	40			81.7	330	15	50.3	46.3
Grader	No	40		85.0		330	15	53.6	49.6
Backhoe	No	40			77.6	330	15	46.2	42.2

Results 52.7

Construction Noise Calculation Worksheets

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1526 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	80	0	76.9	72.9
Dozer	No	40		81.7	80	0	77.6	73.6
Grader	No	40	85.0		80	0	80.9	76.9
Backhoe	No	40		77.6	80	0	73.5	69.5
Results							80.1	

---- Receptor #5 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1516 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	110	0	74.2	70.2
Dozer	No	40		81.7	110	0	74.9	70.9
Grader	No	40	85.0		110	0	78.2	74.2
Backhoe	No	40		77.6	110	0	70.8	66.8
Results							77.3	

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
320 W. 15th St	School	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	150	15	56.5	52.5
Dozer	No	40		81.7	150	15	57.2	53.2
Grader	No	40	85.0		150	15	60.5	56.5
Backhoe	No	40		77.6	150	15	53.1	49.1
Results							59.6	

Construction Noise Calculation Worksheets

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1521 S. Hope St	Park	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	60	0	79.4	75.4
Dozer	No	40		81.7	60	0	80.1	76.1
Grader	No	40	85.0		60	0	83.4	79.4
Backhoe	No	40		77.6	60	0	76.0	72.0

Results 82.5

---- Receptor #8 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1401 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	160	0	70.9	66.9
Dozer	No	40		81.7	160	0	71.6	67.6
Grader	No	40	85.0		160	0	74.9	70.9
Backhoe	No	40		77.6	160	0	67.5	63.5

Results 74.0

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1420 S. Flower St	Residential	75	69.8	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Excavator	No	40		81.0	315	15	50.0	46.0
Dozer	No	40		81.7	315	15	50.7	46.7
Grader	No	40	85.0		315	15	54.0	50.0
Backhoe	No	40		77.6	315	15	46.6	42.6

Results 53.1

---- Receptor #10 ----

Description	Land Use	Baselines (dBA)							
		Daytime	Evening	Night	Equipment	Spec	Actual	Receptor	Estimated
1420 S. Figueroa St.	Residential	75	69.8	40					
Description	Device	Usage(%)	Impact	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
								*Lmax	Leq
Excavator	No	40			81.0	350	15	49.1	45.1
Dozer	No	40			81.7	350	15	49.8	45.8
Grader	No	40		85.0		350	15	53.1	49.1
Backhoe	No	40			77.6	350	15	45.7	41.7
								Results	52.2

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Grading Phase Impact Summary

Receptor #	Address	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1	1624 S. Hope St.	Residential	68.2	80	80.1	73.2	6.9
2	1600 S. Hope St.	Residential	68.2	80	80.1	73.2	6.9
3	1619 S. Grand Ave	Residential	68.2	330	52.7	73.2	0.0
4	1526 S. Hope St	Residential	66.8	80	80.1	71.8	8.3
5	1516 S. Hope St	Residential	66.8	110	77.3	71.8	5.5
6	320 W. 15th St	School	66.8	150	59.6	71.8	0.0
7	1521 S. Hope St	Park	66.8	60	82.5	71.8	10.7
8	1401 S. Hope St	Residential	66.8	160	74.0	71.8	2.2
9	1420 S. Flower St	Residential	75	315	53.1	80	0.0
10	1420 S. Figueroa St.	Residential	75	350	52.2	80	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Report date: 3/9/19
 Project: South Park Towers
 Phase: Building

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)						
		Daytime	Evening	Night				
1624 S. Hope St.	Residential	68.2	71.5	40				
Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	80	0	70.9	63.9
Aerial Lift	No	20		75.0	80	0	70.9	63.9
Cement and Mortar Mixer	No	40		79.0	80	0	74.9	70.9
Crane	No	16		81.0	80	0	76.9	69.0
Forklift	No	20		75.0	80	0	70.9	63.9
Generator	No	50		81.0	80	0	76.9	73.9
Pump	No	50		81.0	80	0	76.9	73.9
Tractor/Loader/Backhoe	No	40		77.6	80	0	73.5	69.5
Welder	No	40		74.0	80	0	69.9	65.9
Welder	No	40		74.0	80	0	69.9	65.9
Welder	No	40		74.0	80	0	69.9	65.9
Results							79.9	

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)						
		Daytime	Evening	Night				
1600 S. Hope St.	Residential	68.2	71.5	40				
Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	80	0	70.9	63.9
Aerial Lift	No	20		75.0	80	0	70.9	63.9
Cement and Mortar Mixer	No	40		79.0	80	0	74.9	70.9
Crane	No	16		81.0	80	0	76.9	69.0
Forklift	No	20		75.0	80	0	70.9	63.9
Generator	No	50		81.0	80	0	76.9	73.9
Pump	No	50		81.0	80	0	76.9	73.9
Tractor/Loader/Backhoe	No	40		77.6	80	0	73.5	69.5
Welder	No	40		74.0	80	0	69.9	65.9
Welder	No	40		74.0	80	0	69.9	65.9
Welder	No	40		74.0	80	0	69.9	65.9
Results							79.9	

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night					*Lmax	Leq
1619 S. Grand Ave	Residential	68.2	71.5	40						
Description	Impact Device	Usage(%)			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)	*Lmax	Leq
Aerial Lift	No	20				75.0	330	15	43.6	36.6
Aerial Lift	No	20				75.0	330	15	43.6	36.6
Cement and Mortar Mixer	No	40				79.0	330	15	47.6	43.6
Crane	No	16				81.0	330	15	49.6	41.7
Forklift	No	20				75.0	330	15	43.6	36.6
Generator	No	50				81.0	330	15	49.6	46.6
Pump	No	50				81.0	330	15	49.6	46.6
Tractor/Loader/Backhoe	No	40				77.6	330	15	46.2	42.2
Welder	No	40				74.0	330	15	42.6	38.6
Welder	No	40				74.0	330	15	42.6	38.6
Welder	No	40				74.0	330	15	42.6	38.6
Results									52.6	

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)			Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night					*Lmax	Leq
1526 S. Hope St	Residential	66.8	65.5	40						
Description	Impact Device	Usage(%)			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)	*Lmax	Leq
Aerial Lift	No	20				75.0	80	0	70.9	63.9
Aerial Lift	No	20				75.0	80	0	70.9	63.9
Cement and Mortar Mixer	No	40				79.0	80	0	74.9	70.9
Crane	No	16				81.0	80	0	76.9	69.0
Forklift	No	20				75.0	80	0	70.9	63.9
Generator	No	50				81.0	80	0	76.9	73.9
Pump	No	50				81.0	80	0	76.9	73.9
Tractor/Loader/Backhoe	No	40				77.6	80	0	73.5	69.5
Welder	No	40				74.0	80	0	69.9	65.9
Welder	No	40				74.0	80	0	69.9	65.9
Welder	No	40				74.0	80	0	69.9	65.9
Results									79.9	

---- Receptor #5 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1516 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	110	0	68.2	61.2
Aerial Lift	No	20		75.0	110	0	68.2	61.2
Cement and Mortar Mixer	No	40		79.0	110	0	72.2	68.2
Crane	No	16		81.0	110	0	74.2	66.2
Forklift	No	20		75.0	110	0	68.2	61.2
Generator	No	50		81.0	110	0	74.2	71.1
Pump	No	50		81.0	110	0	74.2	71.1
Tractor/Loader/Backhoe	No	40		77.6	110	0	70.8	66.8
Welder	No	40		74.0	110	0	67.2	63.2
Welder	No	40		74.0	110	0	67.2	63.2
Welder	No	40		74.0	110	0	67.2	63.2
Results							77.1	

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
320 W. 15th St	School	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	150	15	50.5	43.5
Aerial Lift	No	20		75.0	150	15	50.5	43.5
Cement and Mortar Mixer	No	40		79.0	150	15	54.5	50.5
Crane	No	16		81.0	150	15	56.5	48.5
Forklift	No	20		75.0	150	15	50.5	43.5
Generator	No	50		81.0	150	15	56.5	53.4
Pump	No	50		81.0	150	15	56.5	53.4
Tractor/Loader/Backhoe	No	40		77.6	150	15	53.1	49.1
Welder	No	40		74.0	150	15	49.5	45.5
Welder	No	40		74.0	150	15	49.5	45.5
Welder	No	40		74.0	150	15	49.5	45.5
Results							59.4	

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1521 S. Hope St	Park	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	60	0	73.4	66.4
Aerial Lift	No	20		75.0	60	0	73.4	66.4
Cement and Mortar Mixer	No	40		79.0	60	0	77.4	73.4
Crane	No	16		81.0	60	0	79.4	71.5
Forklift	No	20		75.0	60	0	73.4	66.4
Generator	No	50		81.0	60	0	79.4	76.4
Pump	No	50		81.0	60	0	79.4	76.4
Tractor/Loader/Backhoe	No	40		77.6	60	0	76.0	72.0
Welder	No	40		74.0	60	0	72.4	68.4
Welder	No	40		74.0	60	0	72.4	68.4
Welder	No	40		74.0	60	0	72.4	68.4
							Results	82.4

---- Receptor #8 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1401 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	160	0	64.9	57.9
Aerial Lift	No	20		75.0	160	0	64.9	57.9
Cement and Mortar Mixer	No	40		79.0	160	0	68.9	64.9
Crane	No	16		81.0	160	0	70.9	62.9
Forklift	No	20		75.0	160	0	64.9	57.9
Generator	No	50		81.0	160	0	70.9	67.9
Pump	No	50		81.0	160	0	70.9	67.9
Tractor/Loader/Backhoe	No	40		77.6	160	0	67.5	63.5
Welder	No	40		74.0	160	0	63.9	59.9
Welder	No	40		74.0	160	0	63.9	59.9
Welder	No	40		74.0	160	0	-10.1	-14.1
							Results	73.7

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)			Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night					*Lmax	Leq
1420 S. Flower St	Residential	75	69.8	40						
Description	Impact Device	Usage(%)			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
									*Lmax	Leq
Aerial Lift	No	20				75.0	315	15	44.0	37.0
Aerial Lift	No	20				75.0	315	15	44.0	37.0
Cement and Mortar Mixer	No	40				79.0	315	15	48.0	44.0
Crane	No	16				81.0	315	15	50.0	42.1
Forklift	No	20				75.0	315	15	44.0	37.0
Generator	No	50				81.0	315	15	50.0	47.0
Pump	No	50				81.0	315	15	50.0	47.0
Tractor/Loader/Backhoe	No	40				77.6	315	15	46.6	42.6
Welder	No	40				74.0	315	15	43.0	39.0
Welder	No	40				74.0	315	15	43.0	39.0
Welder	No	40				74.0	315	15	-31.0	-35.0
Results									52.8	

---- Receptor #10 ----

Description	Land Use	Baselines (dBA)			Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night					*Lmax	Leq
1420 S. Figueroa St.	Residential	75	69.8	40						
Description	Impact Device	Usage(%)			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
									*Lmax	Leq
Aerial Lift	No	20				75.0	350	15	43.1	36.1
Aerial Lift	No	20				75.0	350	15	43.1	36.1
Cement and Mortar Mixer	No	40				79.0	350	15	47.1	43.1
Crane	No	16				81.0	350	15	49.1	41.1
Forklift	No	20				75.0	350	15	43.1	36.1
Generator	No	50				81.0	350	15	49.1	46.1
Pump	No	50				81.0	350	15	49.1	46.1
Tractor/Loader/Backhoe	No	40				77.6	350	15	45.7	41.7
Welder	No	40				74.0	350	15	42.1	38.1
Welder	No	40				74.0	350	15	42.1	38.1
Welder	No	40				74.0	350	15	-31.9	-35.9
Results									51.9	

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Building Phase Impact Summary

<u>Receptor #</u>	<u>Address</u>	<u>Land Use</u>	<u>Ambient Noise</u> <u>(dBA Leg)</u>	<u>Receptor Distance</u> <u>(feet)</u>	<u>Noise Impact</u> <u>(dBA Leg)</u>	<u>Construction Noise Significance Criteria</u> <u>(dBA Leg)**</u>	<u>Noise Impact Above Threshold</u>
1	1624 S. Hope St.	Residential	68.2	80	79.9	73.2	6.7
2	1600 S. Hope St.	Residential	68.2	80	79.9	73.2	6.7
3	1619 S. Grand Ave	Residential	68.2	330	52.6	73.2	0.0
4	1526 S. Hope St	Residential	66.8	80	79.9	71.8	8.1
5	1516 S. Hope St	Residential	66.8	110	77.1	71.8	5.3
6	320 W. 15th St	School	66.8	150	59.4	71.8	0.0
7	1521 S. Hope St	Park	66.8	60	82.4	71.8	10.6
8	1401 S. Hope St	Residential	66.8	160	73.7	71.8	1.9
9	1420 S. Flower St	Residential	75	315	52.8	80	0.0
10	1420 S. Figueroa St.	Residential	75	350	51.9	80	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Report date: 3/9/19
 Project: South Park Towers
 Phase: Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1624 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Aerial Lift		No	20		75.0	80	0	70.9	63.9
Aerial Lift		No	20		75.0	80	15	55.9	48.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Forklift		No	20		75.0	80	0	70.9	63.9

Results 77.5

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1600 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Aerial Lift		No	20		75.0	80	0	70.9	63.9
Aerial Lift		No	20		75.0	80	15	55.9	48.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	0	73.9	69.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Air Compressor		No	40		78.0	80	15	58.9	54.9
Forklift		No	20		75.0	80	0	70.9	63.9

Results 77.5

Construction Noise Calculation Worksheets

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1619 S. Grand Ave	Residential	68.2	71.5	40					
Description	Impact	Device	Usage(%)	Spec	Actual	Distance	Shielding	Calculated (dBA)	
								*Lmax	Leq
Aerial Lift	No		20		75.0	330	15	43.6	36.6
Aerial Lift	No		20		75.0	330	15	43.6	36.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Air Compressor	No		40		78.0	330	15	46.6	42.6
Forklift	No		20		75.0	330	15	43.6	36.6
Results								52.9	

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1526 S. Hope St	Residential	66.8	65.5	40					
Description	Impact	Device	Usage(%)	Spec	Actual	Distance	Shielding	Calculated (dBA)	
								*Lmax	Leq
Aerial Lift	No		20		75.0	80	0	70.9	63.9
Aerial Lift	No		20		75.0	80	15	55.9	48.9
Air Compressor	No		40		78.0	80	0	73.9	69.9
Air Compressor	No		40		78.0	80	0	73.9	69.9
Air Compressor	No		40		78.0	80	0	73.9	69.9
Air Compressor	No		40		78.0	80	0	73.9	69.9
Air Compressor	No		40		78.0	80	0	73.9	69.9
Air Compressor	No		40		78.0	80	15	58.9	54.9
Air Compressor	No		40		78.0	80	15	58.9	54.9
Air Compressor	No		40		78.0	80	15	58.9	54.9
Air Compressor	No		40		78.0	80	15	58.9	54.9
Air Compressor	No		40		78.0	80	15	58.9	54.9
Forklift	No		20		75.0	80	0	70.9	63.9
Results								77.5	

Construction Noise Calculation Worksheets

---- Receptor #5 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1516 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	110	0	68.2	61.2
Aerial Lift	No	20		75.0	110	15	53.2	46.2
Air Compressor	No	40		78.0	110	0	71.2	67.2
Air Compressor	No	40		78.0	110	0	71.2	67.2
Air Compressor	No	40		78.0	110	0	71.2	67.2
Air Compressor	No	40		78.0	110	0	71.2	67.2
Air Compressor	No	40		78.0	110	15	56.2	52.2
Air Compressor	No	40		78.0	110	15	56.2	52.2
Air Compressor	No	40		78.0	110	15	56.2	52.2
Air Compressor	No	40		78.0	110	15	56.2	52.2
Air Compressor	No	40		78.0	110	15	56.2	52.2
Forklift	No	20		75.0	110	0	68.2	61.2

Results 74.7

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
320 W. 15th St	School	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	150	0	65.5	58.5
Aerial Lift	No	20		75.0	150	15	50.5	43.5
Air Compressor	No	40		78.0	150	0	68.5	64.5
Air Compressor	No	40		78.0	150	0	68.5	64.5
Air Compressor	No	40		78.0	150	0	68.5	64.5
Air Compressor	No	40		78.0	150	0	68.5	64.5
Air Compressor	No	40		78.0	150	15	53.5	49.5
Air Compressor	No	40		78.0	150	15	53.5	49.5
Air Compressor	No	40		78.0	150	15	53.5	49.5
Air Compressor	No	40		78.0	150	15	53.5	49.5
Air Compressor	No	40		78.0	150	15	53.5	49.5
Forklift	No	20		75.0	150	0	65.5	58.5

Results 72.0

Construction Noise Calculation Worksheets

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1521 S. Hope St	Park	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	60	0	73.4	66.4
Aerial Lift	No	20		75.0	60	15	58.4	51.4
Air Compressor	No	40		78.0	60	0	76.4	72.4
Air Compressor	No	40		78.0	60	0	76.4	72.4
Air Compressor	No	40		78.0	60	0	76.4	72.4
Air Compressor	No	40		78.0	60	0	76.4	72.4
Air Compressor	No	40		78.0	60	15	61.4	57.4
Air Compressor	No	40		78.0	60	15	61.4	57.4
Air Compressor	No	40		78.0	60	15	61.4	57.4
Air Compressor	No	40		78.0	60	15	61.4	57.4
Air Compressor	No	40		78.0	60	15	61.4	57.4
Forklift	No	20		75.0	60	0	73.4	66.4

Results 80.0

---- Receptor #8 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1401 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Aerial Lift	No	20		75.0	160	0	64.9	57.9
Aerial Lift	No	20		75.0	160	15	49.9	42.9
Air Compressor	No	40		78.0	160	0	67.9	63.9
Air Compressor	No	40		78.0	160	0	67.9	63.9
Air Compressor	No	40		78.0	160	0	67.9	63.9
Air Compressor	No	40		78.0	160	0	67.9	63.9
Air Compressor	No	40		78.0	160	0	67.9	63.9
Air Compressor	No	40		78.0	160	15	52.9	48.9
Air Compressor	No	40		78.0	160	15	52.9	48.9
Air Compressor	No	40		78.0	160	15	52.9	48.9
Air Compressor	No	40		78.0	160	15	52.9	48.9
Forklift	No	20		75.0	160	0	64.9	57.9

Results 71.5

Construction Noise Calculation Worksheets

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night					
1420 S. Flower St	Residential	75	69.8	40					
Description	Device	Usage(%)	Impact	Spec Lmax (dBA)	Actual Lmax (dBA)	Distance (feet)	Shielding (dBA)	Calculated (dBA)	
								*Lmax	Leq
Aerial Lift	No	20			75.0	315	15	44.0	37.0
Aerial Lift	No	20			75.0	315	15	44.0	37.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Air Compressor	No	40			78.0	315	15	47.0	43.0
Forklift	No	20			75.0	315	15	44.0	37.0
								Results	52.5

---- Receptor #10 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night					
1420 S. Figueroa St.	Residential	75	69.8	40					
Description	Device	Usage(%)	Impact	Spec Lmax (dBA)	Actual Lmax (dBA)	Distance (feet)	Shielding (dBA)	Calculated (dBA)	
								*Lmax	Leq
Aerial Lift	No	20			75.0	350	15	43.1	36.1
Aerial Lift	No	20			75.0	350	15	43.1	36.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Air Compressor	No	40			78.0	350	15	46.1	42.1
Forklift	No	20			75.0	350	15	43.1	36.1
								Results	51.5

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Architectural Coating Phase Impact Summary

<u>Receptor #</u>	<u>Address</u>	<u>Land Use</u>	Ambient	Receptor	Noise	Construction	Noise
			Noise	Distance	Impact	Significance	Impact
			(dBA Leq)	(feet)	(dBA Leq)	Criteria	Above
						(dBA Leq)**	Threshold
1	1624 S. Hope St.	Residential	68.2	80	77.5	73.2	4.3
2	1600 S. Hope St.	Residential	68.2	80	77.5	73.2	4.3
3	1619 S. Grand Ave	Residential	68.2	330	52.9	73.2	0.0
4	1526 S. Hope St	Residential	66.8	80	77.5	71.8	5.7
5	1516 S. Hope St	Residential	66.8	110	74.7	71.8	2.9
6	320 W. 15th St	School	66.8	150	72.0	71.8	0.2
7	1521 S. Hope St	Park	66.8	60	80.0	71.8	8.2
8	1401 S. Hope St	Residential	66.8	160	71.5	71.8	0.0
9	1420 S. Flower St	Residential	75	315	52.5	80	0.0
10	1420 S. Figueroa St.	Residential	75	350	51.5	80	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Report date: 3/9/19
 Project: South Park Towers
 Phase: Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1624 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Cement and Mortar Mixer		No	40		79.0	80	0	74.9	70.9
Pavers		No	50		77.0	80	0	72.9	69.9
Paving Equipment		No	20		90.0	80	0	85.9	78.9
Rollers		No	20		80.0	80	0	75.9	68.9
Tractor/Loader/Backhoe		No	40		77.6	80	0	73.5	69.5
								Results	80.7

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1600 S. Hope St.	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Cement and Mortar Mixer		No	40		79.0	80	0	74.9	70.9
Pavers		No	50		77.0	80	0	72.9	69.9
Paving Equipment		No	20		90.0	80	0	85.9	78.9
Rollers		No	20		80.0	80	0	75.9	68.9
Tractor/Loader/Backhoe		No	40		77.6	80	0	73.5	69.5
								Results	80.7

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated	Calculated (dBA)	
		Daytime	Evening	Night				*Lmax	Leq
1619 S. Grand Ave	Residential	68.2	71.5	40					
Description		Impact		Spec	Actual	Distance	Shielding	Calculated (dBA)	
		Device	Usage(%)					*Lmax	Leq
Cement and Mortar Mixer		No	40		79.0	330	15	47.6	43.6
Pavers		No	50		77.0	330	15	45.6	42.6
Paving Equipment		No	20		90.0	330	15	58.6	51.6
Rollers		No	20		80.0	330	15	48.6	41.6
Tractor/Loader/Backhoe		No	40		77.6	330	15	46.2	42.2
								Results	53.4

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1526 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	80	0	74.9	70.9
Pavers	No	50		77.0	80	0	72.9	69.9
Paving Equipment	No	20		90.0	80	0	85.9	78.9
Rollers	No	20		80.0	80	0	75.9	68.9
Tractor/Loader/Backhoe	No	40		77.6	80	0	73.5	69.5
Results							80.7	

---- Receptor #5 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1516 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	110	0	72.2	68.2
Pavers	No	50		77.0	110	0	70.2	67.1
Paving Equipment	No	20		90.0	110	0	83.2	76.2
Rollers	No	20		80.0	110	0	73.2	66.2
Tractor/Loader/Backhoe	No	40		77.6	110	0	70.8	66.8
Results							77.9	

---- Receptor #6 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
320 W. 15th St	School	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	150	15	54.5	50.5
Pavers	No	50		77.0	150	15	52.5	49.4
Paving Equipment	No	20		90.0	150	15	65.5	58.5
Rollers	No	20		80.0	150	15	55.5	48.5
Tractor/Loader/Backhoe	No	40		77.6	150	15	53.1	49.1
Results							60.2	

---- Receptor #7 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1521 S. Hope St	Park	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	60	0	77.4	73.4
Pavers	No	50		77.0	60	0	75.4	72.4
Paving Equipment	No	20		90.0	60	0	88.4	81.4
Rollers	No	20		80.0	60	0	78.4	71.4
Tractor/Loader/Backhoe	No	40		77.6	60	0	76.0	72.0
Results							83.2	

---- Receptor #8 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1401 S. Hope St	Residential	66.8	65.5	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	160	0	68.9	64.9
Pavers	No	50		77.0	160	0	66.9	63.9
Paving Equipment	No	20		90.0	160	0	79.9	72.9
Rollers	No	20		80.0	160	0	69.9	62.9
Tractor/Loader/Backhoe	No	40		77.6	160	0	67.5	63.5
Results							74.7	

---- Receptor #9 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
1420 S. Flower St	Residential	75	69.8	40

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	315	15	48.0	44.0
Pavers	No	50		77.0	315	15	46.0	43.0
Paving Equipment	No	20		90.0	315	15	59.0	52.0
Rollers	No	20		80.0	315	15	49.0	42.0
Tractor/Loader/Backhoe	No	40		77.6	315	15	46.6	42.6
Results							53.8	

---- Receptor #10 ----

		Baselines (dBA)						
Description	Land Use	Daytime	Evening	Night				
1420 S. Figueroa St.	Residential	75	698	40				
		Equipment						
			Spec	Actual	Receptor	Estimated		
	Impact		Lmax	Lmax	Distance	Shielding	Calculated (dBA)	
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	*Lmax	Leq
Cement and Mortar Mixer	No	40		79.0	350	15	47.1	43.1
Pavers	No	50		77.0	350	15	45.1	42.1
Paving Equipment	No	20		90.0	350	15	58.1	51.1
Rollers	No	20		80.0	350	15	48.1	41.1
Tractor/Loader/Backhoe	No	40		77.6	350	15	45.7	41.7
							Results	52.9

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Paving Phase Impact Summary

Receptor #	Address	Land Use	Noise				
			Ambient	Receptor	Noise	Construction	Noise
			Noise	Distance	Impact	Significance	Impact
			(dBA Leq)	(feet)	(dBA Leq)	(dBA Leq)**	Above Threshold
1	1624 S. Hope St.	Residential	68.2	80	80.7	73.2	7.5
2	1600 S. Hope St.	Residential	68.2	80	80.7	73.2	7.5
3	1619 S. Grand Ave	Residential	68.2	330	53.4	73.2	0.0
4	1526 S. Hope St	Residential	66.8	80	80.7	71.8	8.9
5	1516 S. Hope St	Residential	66.8	110	77.9	71.8	6.1
6	320 W. 15th St	School	66.8	150	60.2	71.8	0.0
7	1521 S. Hope St	Park	66.8	60	83.2	71.8	11.4
8	1401 S. Hope St	Residential	66.8	160	74.7	71.8	2.9
9	1420 S. Flower St	Residential	75	315	53.8	80	0.0
10	1420 S. Figueroa St.	Residential	75	350	52.9	80	0.0

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.



Project: South Park Towers Project
Date: September 11, 2018
Analyst: Elise Lorenzana

Potential Construction Vibration Calculations

Structures		Distance to Construction (feet)	PPV at 25 Feet (in./Sec.)	Maximum Vibration Levels during Construction
Metro R-O-W	Large bulldozer	18	0.089	0.128
	Caisson drilling	18	0.089	0.128
	Loaded trucks	18	0.076	0.109
	Small Bulldozer	18	0.003	0.004
I-10 Freeway Overpass	Large bulldozer	30	0.089	0.073
	Caisson drilling	30	0.089	0.073
	Loaded trucks	30	0.076	0.062
	Small Bulldozer	30	0.003	0.002