APPENDIX F: NOISE MONITORING DATA AND CALCULATION WORKSHEETS

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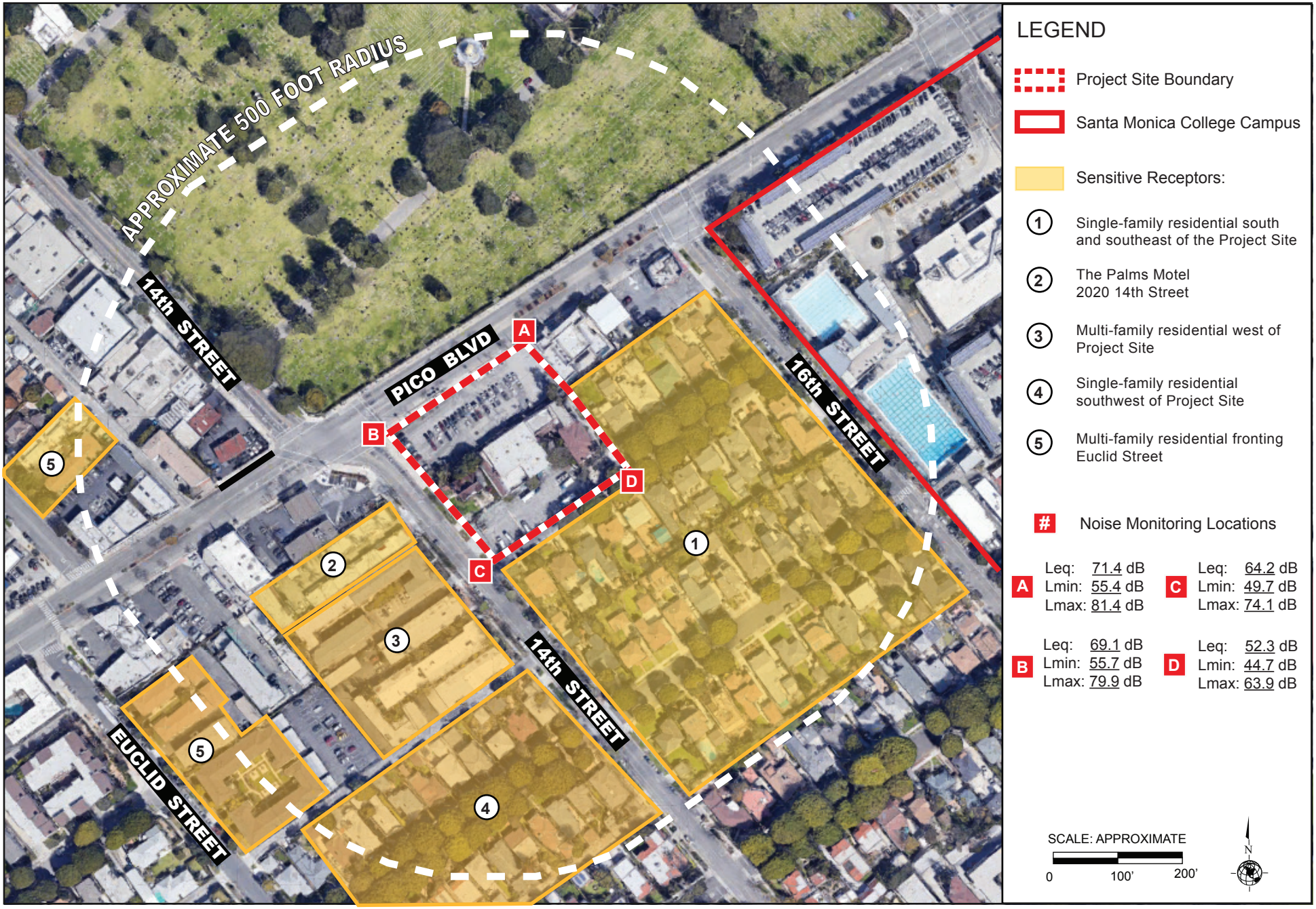

Source: Google Earth, Aerial View, 2020.

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Figure 4.17
Noise Monitoring and Sensitive Receptor Location Map

January 31, 2020

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Summary

File Name on Meter	831_Data.271
Serial Number	0003748
Model	Model 831
Firmware Version	2.311
User	Rachel Mills-Coyne
Job Description	SMC Art Complex Replacement

Location A: On the southern side of Pico Boulevard, adjacent to the north corner of the Project Site.

Noise Sources: Major vehicular use (cars, trucks, motorcycles, 6 BBBs, school buses), minor pedestrian use, two cyclists. All peaks and noise levels >75dBA created by cars and trucks.

Measurement

Description	
Start	2020-01-31 08:02:30
Stop	2020-01-31 08:17:30
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-01-31 07:58:15
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	142.3 dB

	A	C	Z
Under Range Peak	74.7	71.7	**76.7** dB
Under Range Limit	**26.0**	26.2	31.4 dB
Noise Floor	16.9	17.0	22.1 dB

Results

L_{Aeq}	71.4 dB	
LAE	100.9 dB	
EA	1.379 mPa²h	
$LZ_{peak\ (max)}$	2020-01-31 08:15:59	103.0 dB
LAS_{max}	2020-01-31 08:09:28	81.4 dB
LAS_{min}	2020-01-31 08:04:03	55.4 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	26	651.5 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**Lden**	**LDay 07:00-19:00**
	71.4	71.4	71.4	71.4

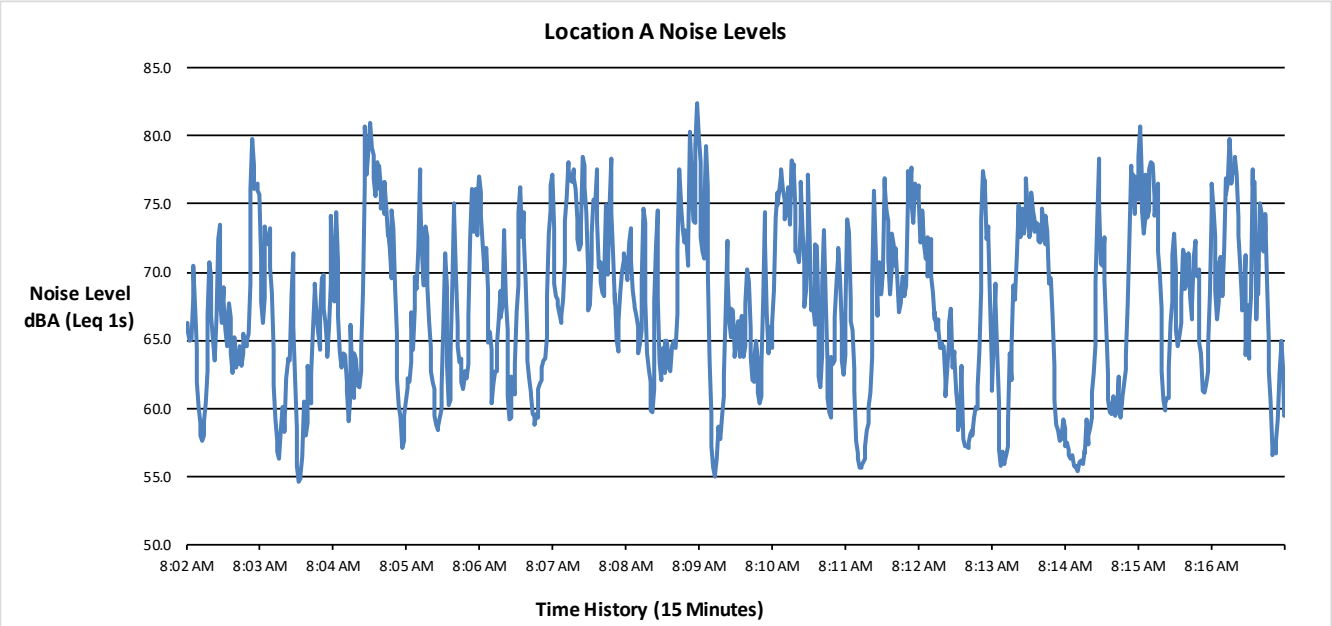
LC_{eq}	76.6 dB
LA_{eq}	71.4 dB
LC_{eq} - LA_{eq}	5.2 dB
LAI_{eq}	72.8 dB
LA_{eq}	71.4 dB
LAI_{eq} - LA_{eq}	1.4 dB

January 31, 2020

	A	
	dB	Time Stamp
L_{eq}	71.4	
$L_{S(max)}$	81.4	2020/01/31 8:09:28
$L_{F(max)}$	84.3	2020/01/31 8:09:28
$L_{I(max)}$	88.0	2020/01/31 8:17:03
$L_{S(min)}$	55.4	2020/01/31 8:04:03
$L_{F(min)}$	54.1	2020/01/31 8:04:01
$L_{I(min)}$	55.1	2020/01/31 8:04:02
$L_{Peak(max)}$	101.3	2020/01/31 8:17:03

# Overloads	0	
Overload Duration	0.0	s

Statistics		
LAS5.00	77.0	dB
LAS10.00	75.9	dB
LAS33.30	71.2	dB
LAS50.00	68.0	dB
LAS66.60	64.7	dB
LAS90.00	59.3	dB



January 31, 2020

PARKER ENVIRONMENTAL CONSULTANTS

Summary

File Name on Meter	831_Data.272
Serial Number	0003748
Model	Model 831
Firmware Version	2.311
User	Rachel Mills-Coyne
Job Description	SMC Art Complex Replacement

Location B: On the southern side of Pico Boulevard, adjacent to the west corner of the Project Site.

Noise Sources: Major vehicule use (cars, trucks, 10 BBBs, school buses) minor pedestrian use, one cyclist, one scooter. All peaks and noise levels >75sBA created by cars and trucks.

Measurement

Description	
Start	2020-01-31 08:20:19
Stop	2020-01-31 08:35:19
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-01-31 07:58:13
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	142.3 dB

	A	C	Z
Under Range Peak	74.7	71.7	**76.7** dB
Under Range Limit	**26.0**	26.2	31.4 dB
Noise Floor	16.9	17.0	22.1 dB

Results

LAeq	69.1 dB		
LAE	98.7 dB		
EA	816.098 µPa²h		
LZpeak (max)	2020-01-31 08:33:23	101.9 dB	
LASmax	2020-01-31 08:33:24	79.9 dB	
LASmin	2020-01-31 08:31:12	55.7 dB	
SEA	-99.9 dB		
LAS > 65.0 dB (Exceedance Counts / Duration)	28	668.7 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**	**LDay 07:00-22:00**	**Lden**	**LDay 07:00-19:00**
	69.1	69.1	69.1	69.1

LCeq	77.8 dB
LAeq	69.1 dB
LCeq - LAeq	8.7 dB
LAleq	70.1 dB
LAeq	69.1 dB
LAleq - LAeq	1.0 dB

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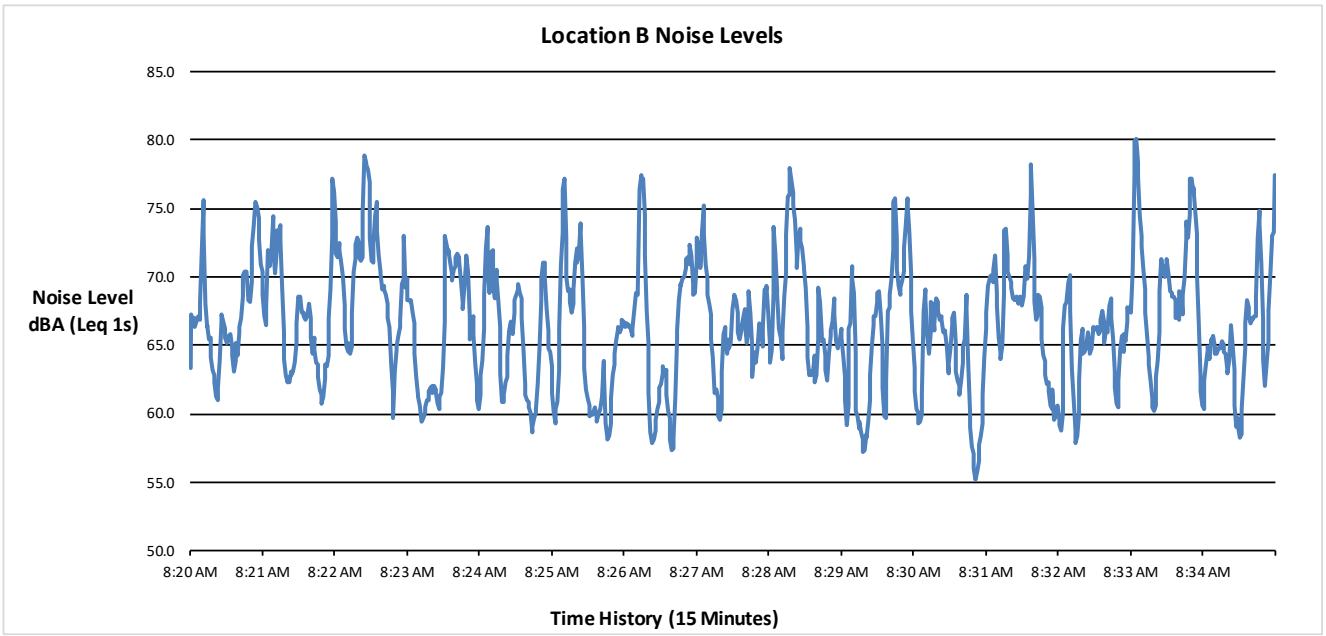
	A	
	dB	Time Stamp
L_{eq}	69.1	
$L_{S(max)}$	79.9	2020/01/31 8:33:24
$L_{F(max)}$	81.2	2020/01/31 8:33:23
$L_{I(max)}$	83.8	2020/01/31 8:23:16
$L_{S(min)}$	55.7	2020/01/31 8:31:12
$L_{F(min)}$	54.6	2020/01/31 8:31:11
$L_{I(min)}$	54.8	2020/01/31 8:31:11
$L_{Peak(max)}$	94.8	2020/01/31 8:26:32

# Overloads	0	
Overload Duration	0.0	s

Statistics		
LAS5.00	74.6	dB
LAS10.00	72.6	dB
LAS33.30	68.5	dB
LAS50.00	66.6	dB
LAS66.60	64.9	dB
LAS90.00	60.7	dB



January 31, 2020

PARKER ENVIRONMENTAL CONSULTANTS

Summary

File Name on Meter	831_Data.274
Serial Number	0003748
Model	Model 831
Firmware Version	2.311
User	Rachel Mills-Coyne
Job Description	SMC Art Complex Replacement

Location C: On the eastern side of 14th Street, adjacent to the south corner of the Project Site.

Noise Sources: Moderate vehicule use (cars, delivery trucks), minor pedestrian use, one motorcycle. All peaks created by cars and noise >75dBA created by distant car horn.

Measurement

Description	
Start	2020-01-31 09:07:41
Stop	2020-01-31 09:22:41
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-01-31 07:58:13
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	142.3 dB

	A	C	Z
Under Range Peak	74.7	71.7	**76.7** dB
Under Range Limit	**26.0**	26.2	31.4 dB
Noise Floor	16.9	17.0	22.1 dB

Results

LAeq	64.2 dB	
LAE	93.7 dB	
EA	261.954 µPa²h	
LZpeak (max)	2020-01-31 09:09:19	101.2 dB
LASmax	2020-01-31 09:09:05	74.1 dB
LASmin	2020-01-31 09:16:34	49.7 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	39	323.7 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**	**LDay 07:00-22:00**	**Lden**	**LDay 07:00-19:00**
	64.2	64.2	64.2	64.2

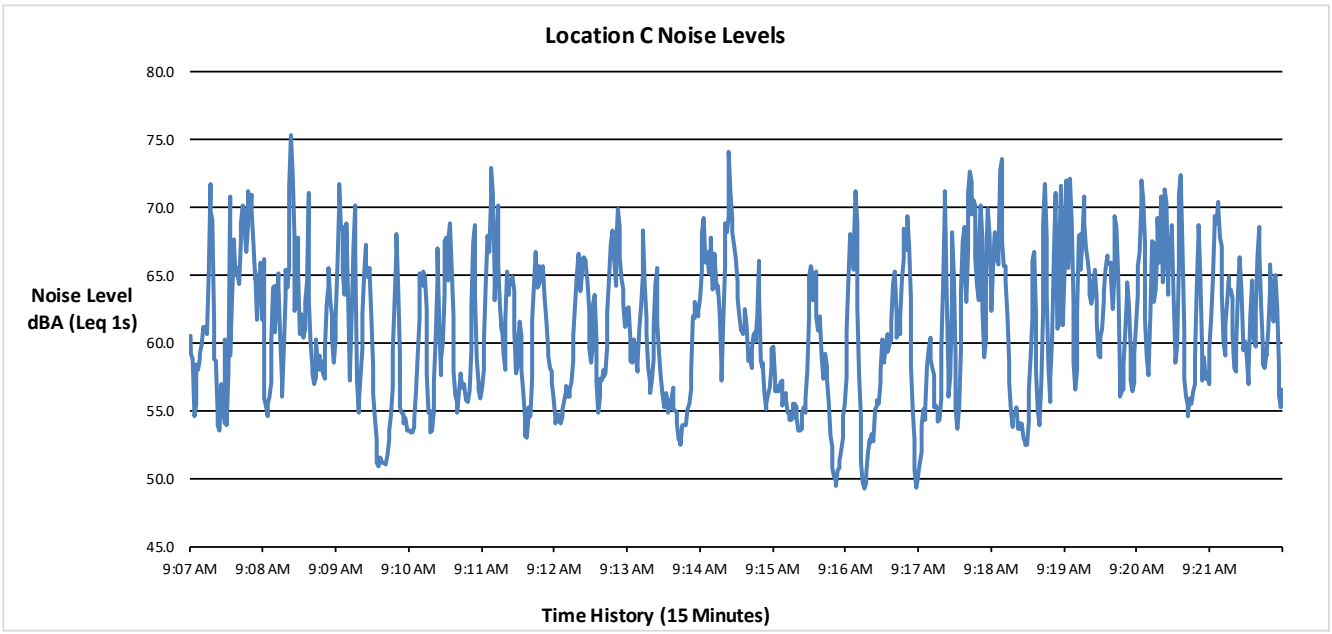
LCeq	72.7 dB
LAeq	64.2 dB
LCeq - LAeq	8.5 dB
LAleq	66.4 dB
LAeq	64.2 dB
LAleq - LAeq	2.2 dB

January 31, 2020

	A	
	dB	Time Stamp
L_{eq}	64.2	
$L_{S(max)}$	74.1	2020/01/31 9:09:05
$L_{F(max)}$	78.8	2020/01/31 9:09:19
$L_{I(max)}$	84.1	2020/01/31 9:09:19
$L_{S(min)}$	49.7	2020/01/31 9:16:34
$L_{F(min)}$	48.6	2020/01/31 9:17:40
$L_{I(min)}$	49.1	2020/01/31 9:16:34
$L_{Peak(max)}$	101.9	2020/01/31 9:09:19

# Overloads	0	
Overload Duration	0.0	s

Statistics		
LAS5.00	69.6	dB
LAS10.00	68.0	dB
LAS33.30	64.4	dB
LAS50.00	61.6	dB
LAS66.60	59.0	dB
LAS90.00	54.7	dB



SMC Art Complex Replacement
Noise Monitoring Location C

January 31, 2020

Summary

File Name on Meter	831_Data.275
Serial Number	0003748
Model	Model 831
Firmware Version	2.311
User	Rachel Mills-Coyne
Job Description	SMC Art Complex Replacement

Location D: On the northern side of Bay Street, adjacent to the east corner of the Project Site.

Noise Sources: Not a through street (cul de sac), only three cars passed by, no pedestrian use, relatively quiet, minimal street noise from 14th and 16th Streets.

Measurement

Description	
Start	2020-01-31 09:26:53
Stop	2020-01-31 09:41:53
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-01-31 07:58:13
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	142.3 dB

	A	C	Z
Under Range Peak	74.7	71.7	**76.7** dB
Under Range Limit	**26.0**	26.2	31.4 dB
Noise Floor	16.9	17.0	22.1 dB

Results

LAeq	52.3 dB	
LAE	81.8 dB	
EA	16.798 µPa²h	
LZpeak (max)	2020-01-31 09:31:35	93.2 dB
LASmax	2020-01-31 09:27:30	63.9 dB
LASmin	2020-01-31 09:39:48	44.7 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	0	0.0 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**
	52.3	52.3	52.3	52.3

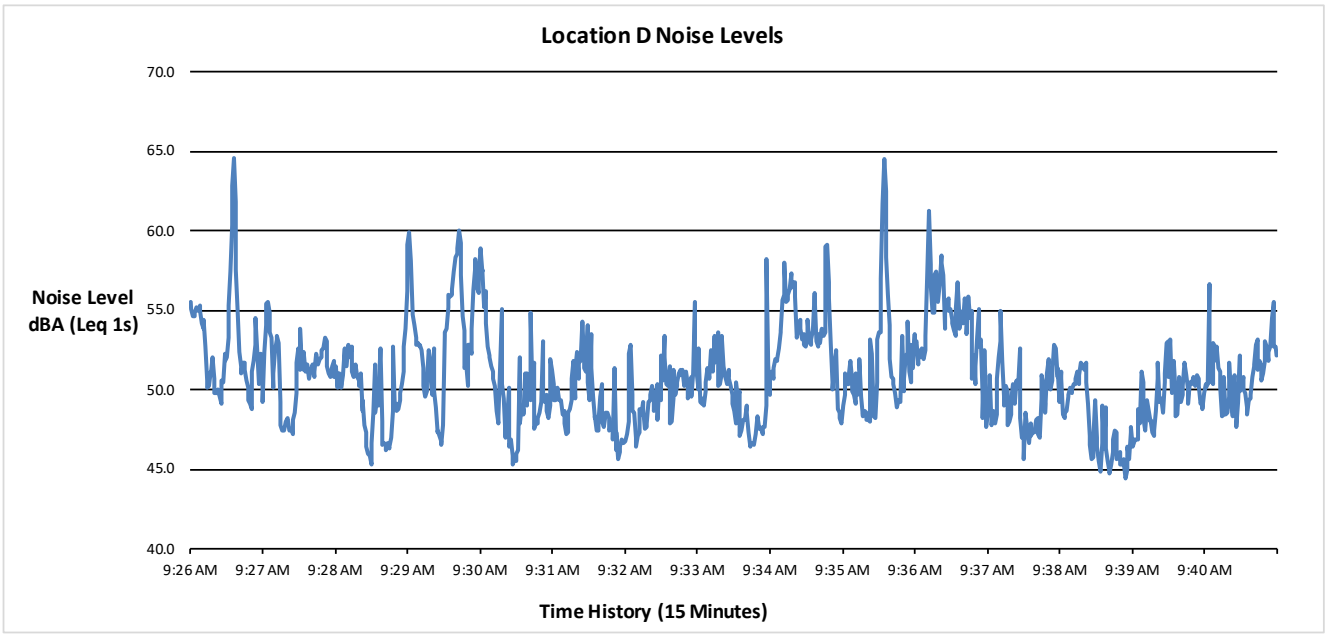
LCeq	66.5 dB
LAeq	52.3 dB
LCeq - LAeq	14.3 dB
LAleq	53.7 dB
LAeq	52.3 dB
LAleq - LAeq	1.5 dB

January 31, 2020

	A	
	dB	Time Stamp
L_{eq}	52.3	
$L_{S(max)}$	63.9	2020/01/31 9:27:30
$L_{F(max)}$	65.8	2020/01/31 9:27:30
$L_{I(max)}$	66.4	2020/01/31 9:27:30
$L_{S(min)}$	44.7	2020/01/31 9:39:48
$L_{F(min)}$	43.9	2020/01/31 9:39:33
$L_{I(min)}$	44.1	2020/01/31 9:39:48
$L_{Peak(max)}$	85.3	2020/01/31 9:40:56

# Overloads	0	
Overload Duration	0.0	s

Statistics		
LAS5.00	56.7	dB
LAS10.00	55.1	dB
LAS33.30	51.7	dB
LAS50.00	50.7	dB
LAS66.60	49.6	dB
LAS90.00	47.5	dB



Construction Noise Calculation Worksheets

Report date: 4/13/20
Project: Santa Monica College Art Complex Replacement Project
Phase: Demolition/Site Clearing

RECEPTOR #1

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential south and southeast of the Project Site	Residential	52.3	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Concrete / Industrial Saw	No	20		90	50	0	90.0	83.0
Dozer	No	40		82	50	0	82.0	78.0
Tractor	No	40	84		50	0	84.0	80.0
Loader	No	40		79	50	0	79.0	75.0
Backhoe	No	40		78	50	0	78.0	74.0
							Results	**86.2**

RECEPTOR #2

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
The Palms Motel	Hotel	69.1	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Concrete / Industrial Saw	No	20		90	70	0	87.1	80.1
Dozer	No	40		82	70	0	79.1	75.1
Tractor	No	40	84		70	0	81.1	77.1
Loader	No	40		79	70	0	76.1	72.1
Backhoe	No	40		84	70	0	81.1	77.1
							Results	**84.0**

RECEPTOR #3

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Concrete / Industrial Saw	No	20		90	80	0	85.9	78.9
Dozer	No	40		82	80	0	77.9	73.9
Tractor	No	40	84		80	0	79.9	75.9
Loader	No	40		79	80	0	74.9	70.9
Backhoe	No	40		84	80	0	79.9	75.9
							Results	**82.9**

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RECEPTOR #4

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Concrete / Industrial Saw	No	20		90	200	0	78.0	71.0
Dozer	No	40		82	200	0	70.0	66.0
Tractor	No	40	84		200	0	72.0	68.0
Loader	No	40		79	200	0	67.0	63.0
Backhoe	No	40		84	200	0	72.0	68.0
							Results	**74.9**

RECEPTOR #5

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential fronting Euclid Street	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Concrete / Industrial Saw	No	20		90	435	10	61.2	54.2
Dozer	No	40		82	435	10	53.2	49.2
Tractor	No	40	84		435	10	55.2	51.2
Loader	No	40		79	435	10	50.2	46.2
Backhoe	No	40		84	435	10	55.2	51.2
							Results	**58.2**

*Calculated Lmax is the Loudest value.

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

Notes: An attenuation factor of 10 dBA was applied for sensitive receptors where buildings separate the Project Site and the associated senstive receptor.

Demolition/Site Clearing Phase Impact Summary

Receptor # and Location	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1. Single-family residential south and southeast of the Project Site	Residential	52.3	50	86.2	75	11.2
2. The Palms Motel	Motel	69.1	70	84.0	75	9.0
3. Multi-family residential west of the Project Site	Residential	64.2	80	82.9	75	7.9
4. Single-family residential southwest of the Project Site	Residential	64.2	200	74.9	75	0.0
5. Multi-family residential fronting Euclid Street	Residential	64.2	435	58.2	75	0.0

** Significance criteria is based on the LAMC Section 112.05, establishing a 75 dBA noise limitation at a distance of 50 feet within 500 feet of any residential zone.

Construction Noise Calculation Worksheets

Report date: 4/13/20
Project: Santa Monica College Art Complex Replacement Project
Phase: Grading/Excavation

RECEPTOR #1

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential south and southeast of the Project Site	Residential	52.3	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Excavator	No	40		76	50	0	76.0	72.0
Dozer	No	40		82	50	0	82.0	78.0
Loader	No	40		79	50	0	79.0	75.0
Grader	No	40	85		50	0	85.0	81.0
							Results	**83.8**

RECEPTOR #2

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
The Palms Motel	Hotel	69.1	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Excavator	No	40		76	70	0	73.1	69.1
Dozer	No	40		82	70	0	79.1	75.1
Loader	No	40		79	70	0	76.1	72.1
Grader	No	40	85		70	0	82.1	78.1
							Results	**80.8**

RECEPTOR #3

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Excavator	No	40		76	80	0	71.9	67.9
Dozer	No	40		82	80	0	77.9	73.9
Loader	No	40		79	80	0	74.9	70.9
Grader	No	40	85		80	0	80.9	76.9
							Results	**79.7**

Construction Noise Calculation Worksheets

RECEPTOR #4

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Excavator	No	40		76	200	0	64.0	60.0
Dozer	No	40		82	200	0	70.0	66.0
Loader	No	40		79	200	0	67.0	63.0
Grader	No	40	85		200	0	73.0	69.0
							Results	**71.7**

RECEPTOR #5

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential fronting Euclid Street	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Excavator	No	40		76	435	10	47.2	43.2
Dozer	No	40		82	435	10	53.2	49.2
Loader	No	40		79	435	10	50.2	46.2
Grader	No	40	85		435	10	56.2	52.2
							Results	**55.0**

*Calculated Lmax is the Loudest value.

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

Notes: An attenuation factor of 10 dBA was applied for sensitive receptors where buildings separate the Project Site and the associated senstive receptor.

Grading/Excavation Phase Impact Summary

Receptor # and Location	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1. Single-family residential south and southeast of the Project Site	Residential	52.3	50	83.8	75	8.8
2. The Palms Motel	Motel	69.1	70	80.8	75	5.8
3. Multi-family residential west of the Project Site	Residential	64.2	80	79.7	75	4.7
4. Single-family residential southwest of the Project Site	Residential	64.2	200	71.7	75	0.0
5. Multi-family residential fronting Euclid Street	Residential	64.2	435	55.0	75	0.0

** Significance criteria is based on the LAMC Section 112.05, establishing a 75 dBA noise limitation at a distance of 50 feet within 500 of any residential zone.

Construction Noise Calculation Worksheets

Report date: 4/13/20
Project: Santa Monica College Art Complex Replacement Project
Phase: Building Construction

RECEPTOR #1

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential south and southeast of the Project Site	Residential	52.3	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Generator	No	50		81	50	0	81.0	78.0
Forklift	No	20		75	50	0	75.0	68.0
Generator	No	50		81	50	0	81.0	78.0
Paver	No	50		77	50	0	77.0	74.0
Roller	No	20		80	50	0	80.0	73.0
Tractor	No	40	84		50	0	84.0	80.0
Cement & Mortar Mixer	No	40		79	50	0	79.0	75.0
Crane	No	16		81	50	0	81.0	73.0
Welder	No	40		74	50	0	74.0	70.0
Welder	No	40		74	50	0	74.0	70.0
Welder	No	40		74	50	0	74.0	70.0
							Results	**85.6**

RECEPTOR #2

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
The Palms Motel	Hotel	69.1	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Generator	No	50		81	70	0	78.1	75.1
Forklift	No	20		75	70	0	72.1	65.1
Generator	No	50		81	70	0	78.1	75.1
Paver	No	50		77	70	0	74.1	71.1
Roller	No	20		80	70	0	77.1	70.1
Tractor	No	40	84		70	0	81.1	77.1
Cement & Mortar Mixer	No	40		79	70	0	76.1	72.1
Crane	No	16		81	70	0	78.1	70.1
Welder	No	40		74	70	0	71.1	67.1
Welder	No	40		74	70	0	71.1	67.1
Welder	No	40		74	70	0	71.1	67.1
							Results	**82.6**

PARKER ENVIRONMENTAL CONSULTANTS

RECEPTOR #3

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Generator	No	50		81	80	0	76.9	73.9
Forklift	No	20		75	80	0	70.9	63.9
Generator	No	50		81	80	0	76.9	73.9
Paver	No	50		77	80	0	72.9	69.9
Roller	No	20		80	80	0	75.9	68.9
Tractor	No	40	84		80	0	79.9	75.9
Cement & Mortar Mixer	No	40		79	80	0	74.9	70.9
Crane	No	16		81	80	0	76.9	69.0
Welder	No	40		74	80	0	69.9	65.9
Welder	No	40		74	80	0	69.9	65.9
Welder	No	40		74	80	0	69.9	65.9
							Results	**81.5**

RECEPTOR #4

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Generator	No	50		81	200	0	69.0	65.9
Forklift	No	20		75	200	0	63.0	56.0
Generator	No	50		81	200	0	69.0	65.9
Paver	No	50		77	200	0	65.0	61.9
Roller	No	20		80	200	0	68.0	61.0
Tractor	No	40	84		200	0	72.0	68.0
Cement & Mortar Mixer	No	40		79	200	0	67.0	63.0
Crane	No	16		81	200	0	69.0	61.0
Welder	No	40		74	200	0	62.0	58.0
Welder	No	40		74	200	0	62.0	58.0
Welder	No	40		74	200	0	62.0	58.0
							Results	**73.5**

RECEPTOR #5

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential fronting Euclid Street	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Generator	No	50		81	435	10	52.2	49.2
Forklift	No	20		75	435	10	46.2	39.2
Generator	No	50		81	435	10	52.2	49.2
Paver	No	50		77	435	10	48.2	45.2
Roller	No	20		80	435	10	51.2	44.2
Tractor	No	40	84		435	10	55.2	51.2
Cement & Mortar Mixer	No	40		79	435	10	50.2	46.2
Crane	No	16		81	435	10	52.2	44.3
Welder	No	40		74	435	10	45.2	41.2
Welder	No	40		74	435	10	45.2	41.2
Welder	No	40		74	435	10	45.2	41.2
							Results	**56.8**

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM),Version 1.1
Notes: An attenuation factor of 10 dBA was applied for sensitive receptors where buildings separate the Project Site and the associated senstive receptor.

Building Construction Phase Impact Summary

Receptor # and Location	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1. Single-family residential south and southeast of the Project Site	Residential	52.3	50	85.6	75	10.6
2. The Palms Motel	Motel	69.1	70	82.6	75	7.6
3. Multi-family residential west of the Project Site	Residential	64.2	80	81.5	75	6.5
4. Single-family residential southwest of the Project Site	Residential	64.2	200	73.5	75	0.0
5. Multi-family residential fronting Euclid Street	Residential	64.2	435	56.8	75	0.0

** Significance criteria is based on the LAMC Section 112.05, establishing a 75 dBA noise limitation at a distance of 50 feet within 500 of any residential zone.

Construction Noise Calculation Worksheets

Report date: 4/13/20
Project: Santa Monica College Art Complex Replacement Project
Phase: Architectural Coating

RECEPTOR #1

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential south and southeast of the Project Site	Residential	52.3	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Aerial Lift	No	20		75	50	0	75.0	68.0
Aerial Lift	No	20		75	50	0	75.0	68.0
Air Compressor	No	40		78	50	0	78.0	74.0
Air Compressor	No	40		78	50	0	78.0	74.0
Air Compressor	No	40		78	50	0	78.0	74.0
Air Compressor	No	40		78	50	0	78.0	74.0
							Results	**80.6**

RECEPTOR #2

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
The Palms Motel	Hotel	69.1	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Aerial Lift	No	20		75	70	0	72.1	65.1
Aerial Lift	No	20		75	70	0	72.1	65.1
Air Compressor	No	40		78	70	0	75.1	71.1
Air Compressor	No	40		78	70	0	75.1	71.1
Air Compressor	No	40		78	70	0	75.1	71.1
Air Compressor	No	40		78	70	0	75.1	71.1
							Results	**77.6**

RECEPTOR #3

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Aerial Lift	No	20		75	80	0	70.9	63.9
Aerial Lift	No	20		75	80	0	70.9	63.9
Air Compressor	No	40		78	80	0	73.9	69.9
Air Compressor	No	40		78	80	0	73.9	69.9
Air Compressor	No	40		78	80	0	73.9	69.9
Air Compressor	No	40		78	80	0	73.9	69.9
							Results	**76.5**

Construction Noise Calculation Worksheets

RECEPTOR #4

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Single-family residential southwest of the Project Site	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Aerial Lift	No	20		75	200	0	63.0	56.0
Aerial Lift	No	20		75	200	0	63.0	56.0
Air Compressor	No	40		78	200	0	66.0	62.0
Air Compressor	No	40		78	200	0	66.0	62.0
Air Compressor	No	40		78	200	0	66.0	62.0
Air Compressor	No	40		78	200	0	66.0	62.0
							Results	**68.5**

RECEPTOR #5

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Multi-family residential fronting Euclid Street	Residential	64.2	40	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)	Calculated (dBA) *Lmax	Calculated (dBA) Leq
Aerial Lift	No	20		75	435	10	46.2	39.2
Aerial Lift	No	20		75	435	10	46.2	39.2
Air Compressor	No	40		78	435	10	49.2	45.2
Air Compressor	No	40		78	435	10	49.2	45.2
Air Compressor	No	40		78	435	10	49.2	45.2
Air Compressor	No	40		78	435	10	49.2	45.2
							Results	**51.8**

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM),Version 1.1
Notes: An attenuation factor of 10 dBA was applied for sensitive receptors where buildings separate the Project Site and the associated senstive receptor.

Architectural Coating Phase Impact Summary

Receptor # and Location	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Impact (dBA Leq)	Construction Significance Criteria (dBA Leq)**	Noise Impact Above Threshold
1. Single-family residential south and southeast of the Project Site	Residential	52.3	50	80.6	75	5.6
2. The Palms Motel	Motel	69.1	70	77.6	75	2.6
3. Multi-family residential west of the Project Site	Residential	64.2	80	76.5	75	1.5
4. Single-family residential southwest of the Project Site	Residential	64.2	200	68.5	75	0.0
5. Multi-family residential fronting Euclid Street	Residential	64.2	435	51.8	75	0.0

** Significance criteria is based on the LAMC Section 112.05, establishing a 75 dBA noise limitation at a distance of 50 feet within 500 of any residential zone.

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Construction Noise Impact Summary

Address	Land Use	Ambient Noise (dBA Leq)	Receptor Distance (feet)	Noise Level Impact (dBA Leq) by Phase				Construction Significance Criteria (dBA Leq)**	MAX ANY PHASE	Noise Impact Above Threshold	Ambient + Attenuated Noise Levels	MAX ANY PHASE
				Demolition	Excavation	Building	Architectural Coating					
1. Single-family residential south and southeast of the Project Site	Residential	52.30	50	86.2	83.8	85.6	80.6	75.0	86.2	10.6	85.6	85.6
2. The Palms Motel	Motel	69.10	70	84.0	80.8	82.6	77.6	75.0	84.0	7.6	82.8	82.6
3. Multi-family residential west of the Project Site	Residential	64.20	80	82.9	79.7	81.5	76.5	75.0	82.9	6.5	81.6	81.5
4. Single-family residential southwest of the Project Site	Residential	64.20	200	74.9	71.7	73.5	68.5	75.0	74.9	0.0	74.0	73.5
5. Multi-family residential fronting Euclid Street	Residential	64.20	435	58.2	55.0	56.8	51.8	75.0	58.2	0.0	64.9	56.8

** Significance criteria is based on the LAMC Section 112.05, establishing a 75 dBA noise limitation at a distance of 50 feet within 500 of any residential zone.