

Appendix H

Noise Data

FTA Construction Noise Levels (dBA Leq)

Detailed Analysis

	North	East	South	West
Distance from Center	445	435	400	200
Demolition	61	61	62	68
Grading	60	60	61	67
Building Construction	60	60	61	67
Paving	63	63	64	70
Architectural Coating	52	52	53	59
Maximum Construction Noise	63	63	64	70
FTA Construction Criterion	80	80	80	75
Exceeds Threshold	No	No	No	No

FTA Construction Equipment Vibration Reference Levels and Impacts - Common Equipment

Construction Equipment Type	Reference PPV at 25 feet (in/sec)	North Property Line Distance to Building (ft)	Eastern Property Line Distance to Building (ft)	Southern Property Line Distance to Building (ft)	Western Property Line Distance to Building (ft)
		75	35	35	90
Vibratory Roller/Compactor	0.210	0.04	0.13	0.13	0.03
Large Bulldozer/Crawler Tractor	0.089	0.02	0.05	0.05	0.01
Loaded Dump Trucks	0.076	0.01	0.05	0.05	0.01
Small Bulldozer/Excavator/Backhoe	0.003	0.0006	0.0018	0.0018	0.0004
Maximum Vibration Exposure Level (in/sec)		0.04	0.13	0.13	0.03
Building Damage Threshold (in/sec)		0.2	0.2	0.2	0.2
Human Annoyance Threshold (in/sec)		0.1	0.1	0.1	0.1
Potentially Significant?		No	Yes	Yes	No

Sources: FTA 2018 (Chapter 7.2, Tables 7-4 & 7-5, Equation 7-2), Caltrans 2020 (Table 5)

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40583
Preamp	PRM821	
Microphone	377B02	
Unique File Id	E87:691499A8:00001FA4	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:28:56		
Stop Time	2025-11-13 21:03:33		
Run Time	31:34:37		
Pre-Calibration			
Date/Time	2025-11-12 14:22:40		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.71 dB re 1V/Pa		51.82 mV/Pa
Post-Calibration			
Date/Time	2025-11-13 21:21:25		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.75 dB re 1V/Pa		51.58 mV/Pa
Sensitivity Delta	-0.04 dB re 1V/Pa		-0.24 mV/Pa

	A	C	Z
L _w eq (dB)	75.3	85.8	91.2
L _w pk (dB)	126.9	141.4	144.5
	2025-11-13 20:21:32	2025-11-13 20:21:32	2025-11-13 20:21:32
L _w Smin (dB)	24.1	46.1	53.7
	2025-11-13 20:20:48	2025-11-13 20:20:26	2025-11-13 20:20:34
L _w Smax (dB)	110.0	120.9	125.1
	2025-11-13 20:55:31	2025-11-13 20:21:32	2025-11-13 19:25:38
L _w Fmin (dB)	23.0	43.2	49.7
	2025-11-13 20:20:48	2025-11-13 20:21:37	2025-11-13 20:21:51
L _w Fmax (dB)	112.7	128.9	133.1
	2025-11-13 20:57:37	2025-11-13 20:21:32	2025-11-13 20:21:32
L _w Imin (dB)	25.9	48.8	57.3
	2025-11-13 20:20:48	2025-11-13 20:20:46	2025-11-13 18:01:17
L _w Imax (dB)	113.6	132.8	137.2
	2025-11-13 20:57:37	2025-11-13 20:21:32	2025-11-13 20:21:32

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	74.9	76.8	54.5	79.1
LC _{eq} - LA _{eq} (dB)	10.5			
LA _{eq} (dB)	78.6			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	68.8
LAS 10.0 (dB)	65.8
LAS 33.3 (dB)	56.9
LAS 50.0 (dB)	53.1
LAS 66.6 (dB)	48.7
LAS 90.0 (dB)	40.6

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	45	339 s
LAS > 95.0 dB	21	147 s
LCpk > 135.0 dB	2	2 s
LCpk > 137.0 dB	1	1 s
LCpk > 140.0 dB	1	1 s

Exposure

SEL _A (dB)	125.7
E _A (Pa ² s)	1492.8
E _{A,8 h} (Pa ² s)	390.6
E _{A,40 h} (Pa ² s)	1952.9
E _A (Pa ² h)	0.4
E _{A,8 h} (Pa ² h)	0.1
E _{A,40 h} (Pa ² h)	0.5

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40603
Preamp	PRM821	
Microphone	377B02	
Unique File Id	E9B:69149F73:00001B9E	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:53:39		
Stop Time	2025-11-12 15:15:38		
Run Time	00:21:59		
Pre-Calibration			
Date/Time	2025-11-12 14:52:01		
Calibrator Level	114.00 dB		
Meter Sensitivity	-26.21 dB re 1V/Pa		48.92 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
L _{weq} (dB)	47.9	60.3	64.0
L _{wpk} (dB)	79.2	80.6	83.6
	2025-11-12 14:53:59	2025-11-12 15:07:37	2025-11-12 15:07:38
L _{wSmin} (dB)	42.5	55.7	60.4
	2025-11-12 15:04:48	2025-11-12 15:04:54	2025-11-12 15:00:37
L _{wSmax} (dB)	59.8	67.5	71.7
	2025-11-12 15:07:35	2025-11-12 14:57:02	2025-11-12 15:07:38
L _{wFmin} (dB)	41.8	54.3	57.9
	2025-11-12 15:02:05	2025-11-12 15:00:23	2025-11-12 15:00:37
L _{wFmax} (dB)	61.7	69.3	76.1
	2025-11-12 15:07:35	2025-11-12 14:57:02	2025-11-12 15:07:38
L _{wlmin} (dB)	43.3	57.9	63.7
	2025-11-12 15:04:48	2025-11-12 15:15:37	2025-11-12 15:06:23
L _{wlmax} (dB)	62.8	71.7	78.6
	2025-11-12 15:07:35	2025-11-12 15:15:17	2025-11-12 15:07:38

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	47.9	47.9	-99.9	47.9
LC _{eq} - LA _{eq} (dB)	12.4			
LA _{eq} (dB)	50.0			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	52.4
LAS 10.0 (dB)	50.1
LAS 33.3 (dB)	47.1
LAS 50.0 (dB)	46.0
LAS 66.6 (dB)	45.3
LAS 90.0 (dB)	44.0

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0 s
LAS > 95.0 dB	0	0 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SEL _A (dB)	79.1
E _A (Pa ² s)	0.0
E _{A,8 h} (Pa ² s)	0.7
E _{A,40 h} (Pa ² s)	3.6
E _A (Pa ² h)	0.0
E _{A,8 h} (Pa ² h)	0.0
E _{A,40 h} (Pa ² h)	0.0

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40603
Preamp	PRM821	
Microphone	377B02	
Unique File Id	:9B:6914A57D:00001BA4	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 15:19:25		
Stop Time	2025-11-12 15:40:42		
Run Time	00:21:17		
Pre-Calibration			
Date/Time	2025-11-12 14:52:01		
Calibrator Level	114.00 dB		
Meter Sensitivity	-26.21 dB re 1V/Pa		48.92 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
Lweq (dB)	51.3	63.3	68.8
Lwpk (dB)	77.7	84.2	89.5
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:22:08
LwSmin (dB)	45.8	58.8	63.1
	2025-11-12 15:28:45	2025-11-12 15:23:30	2025-11-12 15:37:54
LwSmax (dB)	59.8	68.1	80.6
	2025-11-12 15:23:19	2025-11-12 15:22:08	2025-11-12 15:19:46
LwFmin (dB)	45.4	57.4	60.2
	2025-11-12 15:36:58	2025-11-12 15:23:30	2025-11-12 15:20:33
LwFmax (dB)	65.5	72.3	85.6
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:19:46
Lwlmin (dB)	46.5	61.2	65.8
	2025-11-12 15:36:55	2025-11-12 15:23:29	2025-11-12 15:37:53
Lwlmax (dB)	67.3	75.8	87.7
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:19:46

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	51.3	51.3	-99.9	51.3
LCeq - LAeq (dB)	12.0			
LAeq (dB)	52.9			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	54.7
LAS 10.0 (dB)	53.8
LAS 33.3 (dB)	51.7
LAS 50.0 (dB)	50.4
LAS 66.6 (dB)	49.2
LAS 90.0 (dB)	47.5

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0 s
LAS > 95.0 dB	0	0 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SEL _A (dB)	82.4
E _A (Pa ² s)	0.1
E _{A,8 h} (Pa ² s)	1.6
E _{A,40 h} (Pa ² s)	7.8
E _A (Pa ² h)	0.0
E _{A,8 h} (Pa ² h)	0.0
E _{A,40 h} (Pa ² h)	0.0

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40604
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	E9C:69149CDE:00000555	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:42:38		
Stop Time	2025-11-13 17:26:39		
Run Time	27:44:01		
Pre-Calibration			
Date/Time	2025-11-12 14:42:21		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.45 dB re 1V/Pa		53.42 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
L _{weq} (dB)	56.6	64.0	67.3
L _{wpk} (dB)	123.7	123.6	124.5
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-12 14:42:58
L _{wSmin} (dB)	36.2	52.3	56.3
	2025-11-13 02:56:27	2025-11-13 02:56:24	2025-11-13 02:22:26
L _{wSmax} (dB)	95.6	97.0	101.3
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04
L _{wFmin} (dB)	35.6	50.2	53.4
	2025-11-13 02:56:19	2025-11-13 03:05:51	2025-11-13 02:53:39
L _{wFmax} (dB)	104.0	105.3	107.1
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04
L _{wLmin} (dB)	37.2	54.9	58.7
	2025-11-13 02:56:20	2025-11-13 02:56:20	2025-11-13 02:22:26
L _{wLmax} (dB)	108.2	109.4	111.4
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	60.2	57.7	52.6	60.4
L _{Ceq} - L _{Aeq} (dB)	7.4			
L _{Aeq} (dB)	65.8			
Overload Count	0			
Overload Duration	00:00:00			

	A	C	Z
Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	57.0
LAS 10.0 (dB)	56.1
LAS 33.3 (dB)	54.6
LAS 50.0 (dB)	53.8
LAS 66.6 (dB)	52.5
LAS 90.0 (dB)	46.8

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	7	17 s
LAS > 95.0 dB	1	1 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SELa (dB)	106.4
EA (Pa ² s)	17.5
EA,8 h (Pa ² s)	5.2
EA,40 h (Pa ² s)	26.1
EA (Pa ² h)	0.0
EA,8 h (Pa ² h)	0.0
EA,40 h (Pa ² h)	0.0

FTA Construction Noise Levels (dBA Leq)

Detailed Analysis

	North	East	South	West
Distance from Center	445	435	400	200
Demolition	61	61	62	68
Grading	60	60	61	67
Building Construction	60	60	61	67
Paving	63	63	64	70
Architectural Coating	52	52	53	59
Maximum Construction Noise	63	63	64	70
FTA Construction Criterion	80	80	80	75
Exceeds Threshold	No	No	No	No

FTA Construction Equipment Vibration Reference Levels and Impacts - Common Equipment

Construction Equipment Type	Reference PPV at 25 feet (in/sec)	North Property Line Distance to Building (ft)	Eastern Property Line Distance to Building (ft)	Southern Property Line Distance to Building (ft)	Western Property Line Distance to Building (ft)
		75	35	35	90
Vibratory Roller/Compactor	0.210	0.04	0.13	0.13	0.03
Large Bulldozer/Crawler Tractor	0.089	0.02	0.05	0.05	0.01
Loaded Dump Trucks	0.076	0.01	0.05	0.05	0.01
Small Bulldozer/Excavator/Backhoe	0.003	0.0006	0.0018	0.0018	0.0004
Maximum Vibration Exposure Level (in/sec)		0.04	0.13	0.13	0.03
Building Damage Threshold (in/sec)		0.2	0.2	0.2	0.2
Human Annoyance Threshold (in/sec)		0.1	0.1	0.1	0.1
Potentially Significant?		No	Yes	Yes	No

Sources: FTA 2018 (Chapter 7.2, Tables 7-4 & 7-5, Equation 7-2), Caltrans 2020 (Table 5)

Montefino Residential Project

													VEHICLE MIX INPUTS		
Scenario	Street	Segment	ADT	LDA	MDT	HDT	Speed	Roadway Type	Near Lane Distance (ft)	Distance to Centerline	Terrain	Grade (%)	DAY	EVENING	NIGHT
Existing	MLK Boulevard	west of Mariposa Rd	18,700	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			20,000	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			21,100	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	west of Project Driveway	10,760	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			10,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			13,000	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	east of Project Driveway	10,760	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			10,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			11,400	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	east of Golden Gate Ave	6,800	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			6,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			7,000	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	Mariposa Rd	south of MLK Boulevard	12,300	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			13,700	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			12,800	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Existing	Golden Gate Ave	south of MLK Boulevard	6,900	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			6,900	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			7,400	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%

**Montefino Residential Project
Traffic Noise Summary**

ROADWAY	SEGMENT	Daily Traffic Volumes			Noise Level at Center Line (CNEL)			Noise Increase		Existing Conditions Distance to Noise Contour (ft)			Future No Project Conditions Distance to Noise Contour (ft)			With Project Conditions Distance to Noise Contour (ft)		
		Existing	Future No Project	With Project	Existing	Future No Project	Future With Project	Project Only	Project + Cumulative	70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL
MLK Boulevard	west of Mariposa Rd	18,700	20,000	21,100	65.9	66.1	66.3	0.1	0.4	17	55	173	19	59	185	19	61	191
MLK Boulevard	west of Project Driveway	10,760	10,900	13,000	63.0	63.1	63.5	0.5	0.5	10	32	100	10	32	101	11	36	113
MLK Boulevard	east of Project Driveway	10,760	10,900	11,400	63.0	63.1	63.2	0.1	0.2	10	32	100	10	32	101	10	33	104
MLK Boulevard	east of Golden Gate Ave	6,800	6,900	7,000	61.0	61.1	61.1	0.0	0.1	6	20	63	6	20	64	6	20	65
Mariposa Rd	south of MLK Boulevard	12,300	13,700	12,800	67.4	67.8	67.6	-0.2	0.3	24	77	245	27	86	273	26	82	260
Golden Gate Ave	south of MLK Boulevard	6,900	6,900	7,400	64.8	64.8	65.1	0.2	0.2	14	43	137	14	43	137	14	46	145

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40583
Preamp	PRM821	
Microphone	377B02	
Unique File Id	E87:691499A8:00001FA4	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:28:56		
Stop Time	2025-11-13 21:03:33		
Run Time	31:34:37		
Pre-Calibration			
Date/Time	2025-11-12 14:22:40		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.71 dB re 1V/Pa		51.82 mV/Pa
Post-Calibration			
Date/Time	2025-11-13 21:21:25		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.75 dB re 1V/Pa		51.58 mV/Pa
Sensitivity Delta	-0.04 dB re 1V/Pa		-0.24 mV/Pa

	A	C	Z
L _{weq} (dB)	75.3	85.8	91.2
L _{wpk} (dB)	126.9	141.4	144.5
	2025-11-13 20:21:32	2025-11-13 20:21:32	2025-11-13 20:21:32
L _{wSmin} (dB)	24.1	46.1	53.7
	2025-11-13 20:20:48	2025-11-13 20:20:26	2025-11-13 20:20:34
L _{wSmax} (dB)	110.0	120.9	125.1
	2025-11-13 20:55:31	2025-11-13 20:21:32	2025-11-13 19:25:38
L _{wFmin} (dB)	23.0	43.2	49.7
	2025-11-13 20:20:48	2025-11-13 20:21:37	2025-11-13 20:21:51
L _{wFmax} (dB)	112.7	128.9	133.1
	2025-11-13 20:57:37	2025-11-13 20:21:32	2025-11-13 20:21:32
L _{wImin} (dB)	25.9	48.8	57.3
	2025-11-13 20:20:48	2025-11-13 20:20:46	2025-11-13 18:01:17
L _{wImax} (dB)	113.6	132.8	137.2
	2025-11-13 20:57:37	2025-11-13 20:21:32	2025-11-13 20:21:32

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	74.9	76.8	54.5	79.1
LC _{eq} - LA _{eq} (dB)	10.5			
LA _{eq} (dB)	78.6			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	68.8
LAS 10.0 (dB)	65.8
LAS 33.3 (dB)	56.9
LAS 50.0 (dB)	53.1
LAS 66.6 (dB)	48.7
LAS 90.0 (dB)	40.6

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	45	339 s
LAS > 95.0 dB	21	147 s
LCpk > 135.0 dB	2	2 s
LCpk > 137.0 dB	1	1 s
LCpk > 140.0 dB	1	1 s

Exposure

SEL _A (dB)	125.7
E _A (Pa ² s)	1492.8
E _{A,8 h} (Pa ² s)	390.6
E _{A,40 h} (Pa ² s)	1952.9
E _A (Pa ² h)	0.4
E _{A,8 h} (Pa ² h)	0.1
E _{A,40 h} (Pa ² h)	0.5

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40603
Preamp	PRM821	
Microphone	377B02	
Unique File Id	E9B:69149F73:00001B9E	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:53:39		
Stop Time	2025-11-12 15:15:38		
Run Time	00:21:59		
Pre-Calibration			
Date/Time	2025-11-12 14:52:01		
Calibrator Level	114.00 dB		
Meter Sensitivity	-26.21 dB re 1V/Pa		48.92 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
Lweq (dB)	47.9	60.3	64.0
Lwpk (dB)	79.2	80.6	83.6
	2025-11-12 14:53:59	2025-11-12 15:07:37	2025-11-12 15:07:38
LwSmin (dB)	42.5	55.7	60.4
	2025-11-12 15:04:48	2025-11-12 15:04:54	2025-11-12 15:00:37
LwSmax (dB)	59.8	67.5	71.7
	2025-11-12 15:07:35	2025-11-12 14:57:02	2025-11-12 15:07:38
LwFmin (dB)	41.8	54.3	57.9
	2025-11-12 15:02:05	2025-11-12 15:00:23	2025-11-12 15:00:37
LwFmax (dB)	61.7	69.3	76.1
	2025-11-12 15:07:35	2025-11-12 14:57:02	2025-11-12 15:07:38
Lwlmin (dB)	43.3	57.9	63.7
	2025-11-12 15:04:48	2025-11-12 15:15:37	2025-11-12 15:06:23
Lwlmax (dB)	62.8	71.7	78.6
	2025-11-12 15:07:35	2025-11-12 15:15:17	2025-11-12 15:07:38

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	47.9	47.9	-99.9	47.9
LCeq - LAeq (dB)	12.4			
LAeq (dB)	50.0			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	52.4
LAS 10.0 (dB)	50.1
LAS 33.3 (dB)	47.1
LAS 50.0 (dB)	46.0
LAS 66.6 (dB)	45.3
LAS 90.0 (dB)	44.0

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0 s
LAS > 95.0 dB	0	0 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SEL _A (dB)	79.1
E _A (Pa ² s)	0.0
E _{A,8 h} (Pa ² s)	0.7
E _{A,40 h} (Pa ² s)	3.6
E _A (Pa ² h)	0.0
E _{A,8 h} (Pa ² h)	0.0
E _{A,40 h} (Pa ² h)	0.0

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40603
Preamp	PRM821	
Microphone	377B02	
Unique File Id	:9B:6914A57D:00001BA4	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 15:19:25		
Stop Time	2025-11-12 15:40:42		
Run Time	00:21:17		
Pre-Calibration			
Date/Time	2025-11-12 14:52:01		
Calibrator Level	114.00 dB		
Meter Sensitivity	-26.21 dB re 1V/Pa		48.92 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
Lweq (dB)	51.3	63.3	68.8
Lwpk (dB)	77.7	84.2	89.5
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:22:08
LwSmin (dB)	45.8	58.8	63.1
	2025-11-12 15:28:45	2025-11-12 15:23:30	2025-11-12 15:37:54
LwSmax (dB)	59.8	68.1	80.6
	2025-11-12 15:23:19	2025-11-12 15:22:08	2025-11-12 15:19:46
LwFmin (dB)	45.4	57.4	60.2
	2025-11-12 15:36:58	2025-11-12 15:23:30	2025-11-12 15:20:33
LwFmax (dB)	65.5	72.3	85.6
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:19:46
Lwlmin (dB)	46.5	61.2	65.8
	2025-11-12 15:36:55	2025-11-12 15:23:29	2025-11-12 15:37:53
Lwlmax (dB)	67.3	75.8	87.7
	2025-11-12 15:23:18	2025-11-12 15:24:29	2025-11-12 15:19:46

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	51.3	51.3	-99.9	51.3
LCeq - LAeq (dB)	12.0			
LAeq (dB)	52.9			
Overload Count	0			
Overload Duration	00:00:00			
	A	C	Z	

Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	54.7
LAS 10.0 (dB)	53.8
LAS 33.3 (dB)	51.7
LAS 50.0 (dB)	50.4
LAS 66.6 (dB)	49.2
LAS 90.0 (dB)	47.5

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	0	0 s
LAS > 95.0 dB	0	0 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SEL _A (dB)	82.4
E _A (Pa ² s)	0.1
E _{A,8 h} (Pa ² s)	1.6
E _{A,40 h} (Pa ² s)	7.8
E _A (Pa ² h)	0.0
E _{A,8 h} (Pa ² h)	0.0
E _{A,40 h} (Pa ² h)	0.0

SoundExpert 821 Summary

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40604
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	E9C:69149CDE:00000555	

Measurement Notes

User
Location
Job Description
Note

Overall Measurement

Start Time	2025-11-12 14:42:38		
Stop Time	2025-11-13 17:26:39		
Run Time	27:44:01		
Pre-Calibration			
Date/Time	2025-11-12 14:42:21		
Calibrator Level	114.00 dB		
Meter Sensitivity	-25.45 dB re 1V/Pa		53.42 mV/Pa
Post-Calibration			
Date/Time	---		
Calibrator Level	--- dB		
Meter Sensitivity	--- dB re 1V/Pa		--- mV/Pa
Sensitivity Delta	--- dB re 1V/Pa		--- mV/Pa

	A	C	Z
L _{weq} (dB)	56.6	64.0	67.3
L _{wpk} (dB)	123.7	123.6	124.5
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-12 14:42:58
L _{wSmin} (dB)	36.2	52.3	56.3
	2025-11-13 02:56:27	2025-11-13 02:56:24	2025-11-13 02:22:26
L _{wSmax} (dB)	95.6	97.0	101.3
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04
L _{wFmin} (dB)	35.6	50.2	53.4
	2025-11-13 02:56:19	2025-11-13 03:05:51	2025-11-13 02:53:39
L _{wFmax} (dB)	104.0	105.3	107.1
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04
L _{wLmin} (dB)	37.2	54.9	58.7
	2025-11-13 02:56:20	2025-11-13 02:56:20	2025-11-13 02:22:26
L _{wLmax} (dB)	108.2	109.4	111.4
	2025-11-12 14:42:58	2025-11-12 14:42:58	2025-11-13 17:25:04

ω = frequency weighting (A, C or Z)

Community Noise (dB)	LDN	LDay 07:00-22:00	LNight 22:00-07:00	LDEN
	60.2	57.7	52.6	60.4
L _{Ceq} - L _{Aeq} (dB)	7.4			
L _{Aeq} (dB)	65.8			
Overload Count	0			
Overload Duration	00:00:00			

	A	C	Z
Under Range Peak (dB)	50.0	50.0	62.0
Under Range Limit (dB)	24.0	27.0	37.0
Noise Floor (dB)	17.0	18.0	25.0

Ln Percentiles

LAS 5.0 (dB)	57.0
LAS 10.0 (dB)	56.1
LAS 33.3 (dB)	54.6
LAS 50.0 (dB)	53.8
LAS 66.6 (dB)	52.5
LAS 90.0 (dB)	46.8

Exceedances

	Exceedance Counts	Duration
LAS > 85.0 dB	7	17 s
LAS > 95.0 dB	1	1 s
LCpk > 135.0 dB	0	0 s
LCpk > 137.0 dB	0	0 s
LCpk > 140.0 dB	0	0 s

Exposure

SEL _A (dB)	106.4
E _A (Pa ² s)	17.5
E _{A,8 h} (Pa ² s)	5.2
E _{A,40 h} (Pa ² s)	26.1
E _A (Pa ² h)	0.0
E _{A,8 h} (Pa ² h)	0.0
E _{A,40 h} (Pa ² h)	0.0

Montefino Residential Project

													VEHICLE MIX INPUTS		
Scenario	Street	Segment	ADT	LDA	MDT	HDT	Speed	Roadway Type	Near Lane Distance (ft)	Distance to Centerline	Terrain	Grade (%)	DAY	EVENING	NIGHT
Existing	MLK Boulevard	west of Mariposa Rd	18,700	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			20,000	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			21,100	97%	2%	1%	25	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	west of Project Driveway	10,760	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			10,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			13,000	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	east of Project Driveway	10,760	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			10,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			11,400	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	MLK Boulevard	east of Golden Gate Ave	6,800	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future No Project			6,900	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Future With Project			7,000	97%	2%	1%	25	Secondary	44	50	Hard	0%	74.9%	13.7%	11.5%
Existing	Mariposa Rd	south of MLK Boulevard	12,300	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			13,700	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			12,800	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Existing	Golden Gate Ave	south of MLK Boulevard	6,900	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future No Project			6,900	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%
Future With Project			7,400	97%	2%	1%	35	Secondary	39	45	Hard	0%	74.9%	13.7%	11.5%

**Montefino Residential Project
Traffic Noise Summary**

ROADWAY	SEGMENT	Daily Traffic Volumes			Noise Level at Center Line (CNEL)			Noise Increase		Existing Conditions Distance to Noise Contour (ft)			Future No Project Conditions Distance to Noise Contour (ft)			With Project Conditions Distance to Noise Contour (ft)		
		Existing	Future No Project	With Project	Existing	Future No Project	Future With Project	Project Only	Project + Cumulative	70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL	dBA CNEL
MLK Boulevard	west of Mariposa Rd	18,700	20,000	21,100	65.9	66.1	66.3	0.1	0.4	17	55	173	19	59	185	19	61	191
MLK Boulevard	west of Project Driveway	10,760	10,900	13,000	63.0	63.1	63.5	0.5	0.5	10	32	100	10	32	101	11	36	113
MLK Boulevard	east of Project Driveway	10,760	10,900	11,400	63.0	63.1	63.2	0.1	0.2	10	32	100	10	32	101	10	33	104
MLK Boulevard	east of Golden Gate Ave	6,800	6,900	7,000	61.0	61.1	61.1	0.0	0.1	6	20	63	6	20	64	6	20	65
Mariposa Rd	south of MLK Boulevard	12,300	13,700	12,800	67.4	67.8	67.6	-0.2	0.3	24	77	245	27	86	273	26	82	260
Golden Gate Ave	south of MLK Boulevard	6,900	6,900	7,400	64.8	64.8	65.1	0.2	0.2	14	43	137	14	43	137	14	46	145