

# Quarterly Noise Report

For:  
California Department of Transportation

3rd Quarter 2019  
July 1, 2019 – September 30, 2019



**SAN DIEGO**  
INTERNATIONAL AIRPORT  
LET'S **GO.**

**Airport Noise Mitigation**

December 19, 2019



**Quarterly Noise Report**  
**For the Period**  
July 1, 2019 through September 30, 2019

The California Department of Transportation, Division of Aeronautics, granted a Variance from the requirements of Section 5012, Chapter 2.5, Subchapter 6, Title 21, of the California Administrative Code to the San Diego County Regional Airport Authority for the operation of San Diego International Airport on September 2, 2019.

This Quarterly Report for the 3rd Quarter of 2019 was prepared by the Airport Noise Mitigation Office at San Diego International Airport, in accordance with the Airport Noise Standards, State of California.

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Brendan Reed  
Director of Planning & Environmental Affairs

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Kimberly Becker  
President / CEO

## Summary of Statistical Information for the California Department of Transportation

1. Size of Noise Impact Area as defined in the Noise Standards (California Code of Regulations, Title 21, Chapter 2.5, Subchapter 6):  
**Noise Impact Area = 0.684 sq. miles; Military Noise Impact Area = 0.149 sq. miles**

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2. Estimated number of dwelling units included in the Noise Impact Area as defined in the Noise Standards:  
**6,860\* (QHP Insulated = 4,046)**

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3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:  
**13,528\* (QHP Insulated = 10,115)**

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4. Identification of the aircraft type having the highest takeoff noise level operating at SAN, together with the estimated number of operations by this aircraft type during the calendar quarter reporting period:  
**Airbus A340-300: 158**

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5. Total aircraft operations during the calendar quarter:  
**61,556**

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6. Total Air Carrier operations by aircraft certified under Federal Aviation Regulations (FAR) Part 36:  
**55,433\*\***

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7. Percentage of Air Carrier operations by aircraft certificated under FAR Part 36, Stage III:  
**100%**

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8. Total number of operations by Air Taxi aircraft during the calendar quarter:  
**3,431\*\***

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9. Total number of operations by General Aviation aircraft during the calendar quarter:  
**2,473\*\***

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10. Total number of operations by Military aircraft during the calendar quarter:  
**219\*\***

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Form DOA 617, 10/89

\* Population and dwelling unit calculations are based upon 2010 Census Block Boundary Data.

\*\* Airport Operations counts are obtained from the FAA Air Traffic Activity Data System:

<https://aspm.faa.gov/opsnet/sys/Main.asp?force=atads>

## Aircraft Noise Measurements

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Using data generated from the Airport Noise and Operations Monitoring System (ANOMS) and Geographic Information System (GIS), the Airport Noise Office determined that the Noise Impact Area (N.I.A.) and the Federal Military Impact Area (M.I.A.) within the 65 dB Community Noise Equivalent Level (CNEL) contour for the period of October 1, 2018 through September 30, 2019 to be 0.684 square miles (437.8 acres) and 0.149 square miles (95.4 acres), respectively. As compared to the period of October 1, 2017 through September 30, 2018, the N.I.A decreased by -0.108 square miles (69.1 acres) and the Federal M.I.A remains unchanged.

The reduction in the size of the 3rd Quarter 2019 N.I.A. compared to the 3rd Quarter 2018 is largely due to the changes in aircraft fleet. Louder aircraft were replaced by quieter aircraft. In particular, widebody operations saw a significant reduction in use. The following changes in aircraft fleet have resulted in a reduction in the size of the noise contour.

- 94% reduction in the number of 767 widebody operations (Passenger and Cargo).
- 81% increase in the number of quieter A320/321Neo operations.
- 76% reduction in the number of B717 operations.
- 13% reduction in 737NG operations offset by the above Neo operations.
- 10% reduction in A340 operations due to the variance in operating days.

**Table 1**

Change in N.I.A. and M.I.A.

Impact Area	October 1, 2018 to September 30, 2019	October 1, 2017 to September 30, 2018	Change
N.I.A.	0.684	0.792	-0.108
M.I.A.	0.149	0.149	0.000

A summary of the quarterly and annual CNEL data is shown on the following page within Table 2. Appendix A: Aircraft Noise Monitoring System contains Remote Monitoring Terminals (RMTs) thresholds and Daily/Monthly CNEL Logs.

The contours were prepared using Harris Miller Miller & Hanson Inc.’s (HMMH) RealContours (RC) for AEDT software. AEDT is a state of the art software system that models aircraft performance in space and time to estimate fuel consumption, emissions, noise, and air quality consequences.

The N.I.A. & M.I.A. were determined using GIS analysis. Use of GIS technology allowed direct counting of individual parcels within the N.I.A. The modeling methodology fulfills the requirements of the State of California, Title 21, California Noise Standards. A review of measured and modeled noise levels indicate good agreement between several key measurement locations.

Additionally, the 65 dB Community Noise Equivalent Level (CNEL) contours for the period of October 1, 2018 through September 30, 2019 compared to the period of October 1, 2017 through September 30, 2018 accompanies this report as an attachment.

**Table 2**Quarterly and Annual CNEL Data

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RMT #	Annual CNEL (dB) <sup>1</sup>	Quarter CNEL (dB) <sup>2</sup>
1	68.4	68.8
2	66.1	66.7
3	77.6	64.1
4	65.4	65.7
6	68.9	69.1
7	74.9	75.3
9	66.8	67.2
10	63.4	63.9
11	71.4	71.8
12	61.6	62.3
13	65.7	66.4
14	65.1	65.3
16	64.4	64.6
17	64.6	65.1
18	62.2	60.3
19	63.6	63.6
20	60.8	61.4
21	57.8	58.2
22	64.5	64.9
23	63.4	63.9
24	64.0	64.6
25	61.8	62.3
26	63.2	63.6

<sup>1</sup> = October 1, 2018 through September 30, 2019

<sup>2</sup> = July 1, 2019 through September 30, 2019

Note: RMTs #5, #8 and #15 are no longer operational as the noise impact boundary has decreased in size.

## Aircraft Operations

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Statistics of aircraft operations (Table 3) are the Federal Aviation Administration (FAA) Air Traffic Control Tower (ATCT) counts at San Diego International Airport (SAN). This data can be obtained from the FAA's Air Traffic Activity Data System (ATADS).

<https://aspm.faa.gov/opsnet/sys/Airport.asp>

**Table 3**

SAN Air Traffic Control Tower Counts

Operations	3rd Quarter 2019	3rd Quarter 2018	Increase/Decrease	Percent Change
Air Carrier	55,433	53,184	2,249	4.2%
Air Taxi	3,431	3,110	321	10.3%
General Aviation	2,473	2,917	(444)	-15.2%
Military	219	202	17	8.4%
Total	61,556	59,413	2,143	3.6%

## Quarterly Operations Survey Report

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The Quarterly Operations Survey Report for SAN encompasses the 3rd Quarter of 2019. The average Single Event Noise Exposure Level (SENEL) of the loudest 25% of the Operations Survey is shown below (Table 4). The data used to compile this report was gathered during 24-hour periods on August 13-15, 2019 (Tables 5 through 7).

**Table 4**

Single Event Noise Exposure Level (SENEL) Comparison

	August 13-15, 2019	August 14-16, 2018	Change (dB)
Departures	99.3	99.3	0.0
Arrivals	93.2	93.4	-0.2

**Table 5**

Quarterly Operations Survey – Arrivals (RMT #1 from August 13-15, 2019)

<b>Aircraft Type</b>	<b>SENL (dB)</b>	<b>Arriving From</b>	<b>Flight Number</b>	<b>Date and Time</b>
B763	95.2	IND	FDX3713	8/15/2019 4:57 PM
B77W	95.1	LHR	BAW44N	8/13/2019 6:50 PM
B738	94.9	SJC	SWA1565	8/15/2019 2:33 PM
B752	94.7	OAK	FDX1889	8/13/2019 4:29 AM
B753	94.6	ATL	DAL1692	8/13/2019 9:23 AM
B763	94.6	SDF	UPS922	8/15/2019 4:42 AM
B753	94.5	ATL	DAL1692	8/15/2019 9:55 AM
B77W	94.5	LHR	BAW44N	8/15/2019 6:44 PM
B738	94.3	BWI	SWA2421	8/13/2019 9:28 AM
B763	94.3	IND	FDX1754	8/15/2019 5:19 AM
B763	94.1	IND	FDX3713	8/14/2019 5:03 PM
B763	94.1	MEM	FDX1422	8/15/2019 5:17 AM
B763	94.0	MEM	FDX1422	8/13/2019 5:34 AM
B763	94.0	SDF	UPS2922	8/14/2019 5:35 PM
B763	93.9	MEM	FDX906	8/14/2019 5:19 PM
B763	93.8	IND	FDX1754	8/13/2019 5:45 AM
B752	93.8	IAD	UAL229	8/13/2019 1:52 PM
B752	93.8	IAD	UAL229	8/14/2019 10:58 AM
B738	93.8	STL	SWA1090	8/15/2019 3:08 PM
B763	93.8	SDF	UPS2922	8/15/2019 5:40 PM
B738	93.6	OAK	SWA2193	8/13/2019 3:47 PM
B77W	93.6	LHR	BAW44N	8/14/2019 6:38 PM
B738	93.5	PDX	ASA566	8/15/2019 8:49 AM
B763	93.4	IND	FDX3713	8/13/2019 5:21 PM
B753	93.4	ATL	DAL508	8/15/2019 7:17 PM
B752	93.4	JFK	DAL2685	8/15/2019 8:49 PM
A321	93.4	CLT	AAL596	8/15/2019 10:29 PM
B738	93.1	LIH	ASA858	8/13/2019 9:14 PM
B739	93.1	EWR	ASA773	8/14/2019 9:07 PM
B737	93.1	AUS	SWA518	8/15/2019 8:34 AM
B752	93.0	JFK	DAL2288	8/15/2019 11:00 AM
B738	93.0	DAL	SWA814	8/15/2019 4:53 PM
B737	92.9	PHX	SWA1652	8/13/2019 3:25 PM
B763	92.9	SDF	UPS2922	8/13/2019 5:47 PM
B753	92.9	ATL	DAL508	8/13/2019 7:18 PM
A321	92.9	PHX	AAL2671	8/14/2019 11:21 AM
B762	92.9	PHX	GTI505	8/15/2019 8:22 AM
B737	92.9	PHX	SWA1652	8/15/2019 3:00 PM
B738	92.9	MSY	SWA440	8/15/2019 3:33 PM

**Table 5 Continued**

Quarterly Operations Survey – Arrivals (RMT #1 from August 13-15, 2019)

Aircraft Type	SENEL (dB)	Arriving From	Flight Number	Date and Time
B739	92.9	SEA	ASA574	8/15/2019 4:26 PM
B739	92.9	SFO	UAL2186	8/15/2019 4:34 PM
B738	92.8	DEN	UAL1982	8/13/2019 9:11 AM
B752	92.7	OAK	FDX1889	8/15/2019 4:15 AM
B737	92.7	SMF	SWA1137	8/15/2019 8:44 AM
B739	92.7	IAH	UAL1916	8/15/2019 8:55 PM
B739	92.6	PDX	ASA566	8/13/2019 8:50 AM
B737	92.6	RNO	SWA2219	8/13/2019 11:44 AM
B752	92.6	JFK	DAL943	8/13/2019 2:27 PM
A332	92.6	HNL	HAL16	8/13/2019 9:32 PM
B752	92.6	PHX	AAL438	8/15/2019 8:40 AM
B738	92.6	MDW	SWA1685	8/15/2019 10:32 AM
B752	92.6	JFK	DAL943	8/15/2019 2:05 PM
B738	92.6	DFW	AAL1243	8/15/2019 8:12 PM
B738	92.6	KOA	ASA196	8/15/2019 10:33 PM
B738	92.5	STL	SWA1090	8/13/2019 3:22 PM
B738	92.5	DEN	UAL1982	8/15/2019 9:13 AM
B752	92.5	IAD	UAL229	8/15/2019 11:01 AM
B788	92.5	NRT	JAL66	8/15/2019 11:48 AM
B738	92.5	BNA	SWA2185	8/15/2019 2:08 PM
B737	92.5	PHX	SWA974	8/15/2019 4:18 PM
B738	92.5	EWR	UAL1827	8/15/2019 7:52 PM
B762	92.4	PHX	GTI505	8/13/2019 8:34 AM
B739	92.4	IAH	UAL2261	8/13/2019 11:00 AM
B737	92.4	DEN	SWA1497	8/13/2019 12:47 PM
B739	92.4	IAD	UAL2303	8/13/2019 9:01 PM
B738	92.4	DAL	SWA1773	8/14/2019 11:49 AM
B739	92.4	BWI	ASA377	8/15/2019 8:29 AM
B738	92.4	OAK	SWA2193	8/15/2019 3:50 PM
B737	92.4	OAK	SWA336	8/15/2019 8:29 PM
B752	92.3	PHX	AAL438	8/13/2019 8:38 AM
B738	92.3	SFO	UAL2186	8/13/2019 5:13 PM
B738	92.3	MDW	SWA468	8/14/2019 3:09 PM
B737	92.3	OAK	SWA123	8/15/2019 5:28 PM
B737	92.3	DEN	SWA1422	8/15/2019 6:54 PM
B738	92.2	ORD	AAL1244	8/13/2019 1:03 AM
B738	92.2	BWI	ASA377	8/13/2019 8:30 AM
B738	92.2	YYC	WJA1564	8/14/2019 12:10 PM
B737	92.2	PHX	SWA1188	8/14/2019 1:24 PM
B737	92.2	SMF	SWA1101	8/15/2019 3:11 PM
B738	92.1	IAH	UAL1870	8/13/2019 3:17 PM



**Table 6**

Quarterly Operations Survey – Departures (RMT #7 from August 13-15, 2019)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Departing To</b>	<b>Flight Number</b>	<b>Date and Time</b>
A343	104.5	FRA	DLH2P	8/15/2019 3:11 PM
A343	104.0	FRA	DLH2P	8/14/2019 3:20 PM
A332	101.4	HNL	HAL15	8/13/2019 9:35 AM
B739	101.2	EWR	UAL395	8/15/2019 10:15 PM
A321	100.9	PHL	AAL2078	8/14/2019 10:42 PM
B739	100.6	EWR	ASA440	8/13/2019 6:46 AM
A321	100.6	CLT	AAL1651	8/13/2019 7:28 AM
B77W	100.4	LHR	BAW72A	8/15/2019 8:41 PM
B739	100.2	ORD	UAL913	8/14/2019 8:17 AM
B739	100.2	IAD	UAL546	8/15/2019 8:44 AM
A332	100.2	HNL	HAL15	8/15/2019 9:51 AM
A321	100.1	MIA	AAL1209	8/14/2019 9:26 PM
A321	100.1	PHL	AAL2078	8/15/2019 10:33 PM
B77W	100.0	LHR	BAW72A	8/13/2019 8:57 PM
A321	100.0	CLT	AAL1651	8/14/2019 7:49 AM
A321	99.8	PHL	AAL2078	8/13/2019 10:30 PM
A321	99.8	PHL	AAL433	8/15/2019 7:51 AM
B739	99.7	IAD	UAL1916	8/13/2019 10:15 PM
A321	99.7	MIA	AAL1209	8/15/2019 9:22 PM
A321	99.6	PHL	AAL433	8/13/2019 7:43 AM
B739	99.6	BWI	ASA378	8/15/2019 10:49 PM
B739	99.4	EWR	ASA440	8/14/2019 6:56 AM
B77W	99.4	LHR	BAW72A	8/14/2019 9:10 PM
B738	99.4	HNL	ASA895	8/15/2019 8:22 AM
B739	99.3	IAD	UAL546	8/14/2019 10:12 AM
A321	99.3	CLT	AAL1936	8/14/2019 10:59 PM
B739	99.3	EWR	ASA440	8/15/2019 6:57 AM
A321	99.3	JFK	JBU90	8/15/2019 9:05 PM
A321	99.2	CLT	AAL1936	8/15/2019 11:18 PM
A321	99.1	CLT	AAL639	8/14/2019 1:33 PM
A321	99.0	CLT	AAL639	8/13/2019 12:56 PM
A321	99.0	DTW	DAL833	8/15/2019 12:09 PM
B753	98.9	ATL	DAL1643	8/13/2019 10:11 PM
A321	98.9	YYZ	ROU1886	8/15/2019 1:23 PM
A321	98.9	CLT	AAL639	8/15/2019 1:37 PM
B739	98.8	IAH	UAL2094	8/13/2019 8:22 AM
B738	98.8	IAD	UAL546	8/13/2019 8:40 AM
A321	98.8	ATL	DAL731	8/13/2019 8:47 AM
B738	98.8	LIH	ASA819	8/13/2019 9:01 AM

**Table 6 Continued**

Quarterly Operations Survey – Departures (RMT #7 from August 13-15, 2019)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Departing To</b>	<b>Flight Number</b>	<b>Date and Time</b>
A321	98.8	DFW	AAL1317	8/14/2019 6:37 AM
A321	98.8	CLT	AAL1651	8/15/2019 7:53 AM
A321	98.8	ATL	DAL731	8/15/2019 8:47 AM
A321	98.8	BOS	JBU20	8/15/2019 9:37 PM
B738	98.7	EWR	UAL751	8/13/2019 6:29 AM
B739	98.7	ORD	UAL913	8/13/2019 8:24 AM
A321	98.7	MIA	AAL1209	8/13/2019 9:25 PM
B753	98.7	ATL	DAL1692	8/15/2019 11:18 AM
B753	98.6	ATL	DAL1692	8/13/2019 11:09 AM
A321	98.6	DTW	DAL1635	8/15/2019 10:04 PM
A321	98.5	ATL	DAL1592	8/13/2019 6:33 AM
A321	98.5	MSP	DAL1687	8/13/2019 11:59 AM
A321	98.5	ATL	DAL2908	8/13/2019 12:42 PM
A321	98.5	DFW	AAL491	8/13/2019 4:52 PM
B738	98.5	KOA	ASA239	8/15/2019 9:24 AM
B753	98.5	ATL	DAL1643	8/15/2019 10:22 PM
B753	98.4	ATL	DAL1643	8/14/2019 10:11 PM
A321	98.4	ATL	DAL1592	8/15/2019 6:36 AM
A321	98.4	DTW	DAL2628	8/15/2019 7:42 AM
A321	98.4	ATL	DAL2908	8/15/2019 12:59 PM
A321	98.4	ORD	NKS564	8/15/2019 1:56 PM
A321	98.3	ATL	DAL1375	8/13/2019 7:31 AM
A321	98.3	DFW	AAL313	8/13/2019 11:28 AM
B739	98.3	BWI	ASA378	8/13/2019 10:42 PM
A321	98.3	BOS	JBU2820	8/14/2019 11:20 AM
A321	98.3	YYZ	ROU1886	8/14/2019 1:26 PM
A321	98.3	BOS	JBU620	8/14/2019 2:57 PM
B738	98.3	PHL	AAL1367	8/15/2019 6:55 AM
A321	98.3	BOS	JBU2820	8/15/2019 11:03 AM
B738	98.2	HNL	ASA895	8/13/2019 8:26 AM
A321	98.2	DTW	NKS644	8/13/2019 10:24 AM
A321	98.2	BOS	JBU2820	8/13/2019 12:00 PM
B738	98.2	ATL	SWA644	8/13/2019 12:01 PM
A321	98.2	MSP	DAL1728	8/13/2019 2:14 PM
A321	98.2	DFW	AAL1229	8/13/2019 2:45 PM
A321	98.2	PHL	AAL433	8/14/2019 10:06 AM
A321	98.1	DTW	NKS644	8/14/2019 10:55 AM
B739	98.1	DEN	UAL382	8/14/2019 6:14 PM
B739	98.1	ORD	UAL1010	8/14/2019 10:33 PM
B738	98.1	EWR	UAL751	8/15/2019 6:32 AM
B739	98.1	DEN	UAL1209	8/15/2019 7:13 AM
B738	98.1	OGG	ASA829	8/15/2019 7:17 AM

**Table 7**

Air Carrier Fleet Mix by Time of Day and Runway Use (August 13-15, 2019 – Per Day Average)

Aircraft Type	Runway 9						Runway 27						Total
	Arrivals			Departures			Arrivals			Departures			
	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	
	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	
A20N	0	0	0	0	0	0	3	1	0	3	0	1	8
A21N	0	0	0	0	0	0	0	1	0	1	0	0	2
A319	0	0	0	1	0	0	5	1	3	4	3	2	19
A320	2	0	1	1	0	0	23	3	2	24	4	3	63
A321	1	0	1	2	0	0	25	6	7	29	3	5	79
A332	0	0	0	0	0	0	0	0	0	1	0	0	1
A343	0	0	0	0	0	0	1	0	0	1	0	0	2
B38M	0	0	0	0	0	0	0	0	0	0	0	0	0
B39M	0	0	0	0	0	0	0	0	0	0	0	0	0
B712	0	0	0	0	0	0	0	0	1	0	0	1	2
B737	7	0	0	6	0	0	61	16	16	64	16	14	200
B738	3	0	0	2	0	0	32	8	6	38	4	4	97
B739	2	0	0	2	0	0	9	7	3	13	2	4	42
B744	0	0	0	0	0	0	0	0	0	0	0	0	0
B752	0	0	0	0	0	0	4	1	2	6	1	1	15
B753	0	0	0	0	0	0	1	1	0	1	0	1	4
B762	0	0	0	0	0	0	1	0	0	1	0	0	2
B763	0	0	1	0	0	0	3	0	2	1	3	2	12
B77W	0	0	0	0	0	0	1	0	0	0	1	0	2
B788	0	0	0	0	0	0	1	0	0	1	0	0	2
BE99	0	0	0	0	0	0	1	0	0	1	0	0	2
C208	0	0	0	0	0	0	3	0	0	2	0	1	6
CRJ2	0	0	0	0	0	0	2	1	1	2	1	1	8
CRJ7	0	0	0	0	0	0	1	0	0	1	0	0	2
CRJ9	0	0	0	0	0	0	2	0	1	2	0	1	6
E75L	4	0	0	2	0	0	23	4	2	25	5	1	66
PA31	0	0	0	0	0	0	1	0	0	0	0	0	1
SW4	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>19</b>	<b>0</b>	<b>3</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>203</b>	<b>50</b>	<b>46</b>	<b>221</b>	<b>43</b>	<b>42</b>	<b>643</b>

## **Aircraft Noise Complaints**

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During the 3rd Quarter of 2019, the Airport Noise Office received a total of 66,667 complaints from 253 households. Where possible, each complaint is correlated with a specific flight and examined for its validity. Those flights that indicate a possible violation of the Airport Use Regulations, Time of Day Restrictions, are investigated and appropriate enforcement action is taken.

## **Enforcement Actions**

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The Airport Use Regulations at San Diego International Airport (SAN) establish Time of Day Restrictions for all operators. The Airport Noise Office monitors operator compliance with these Airport Use Regulations. Any infraction is reported to the Curfew Violation Review Panel (Panel), a three member staff panel for review. The Panel examines data and documentation collected regarding alleged violations of the Time of Day (Noise Curfew) Restrictions, and makes recommendations to the Program Manager, Airport Noise, for the disposition of incidents.

During the 3rd Quarter of 2019, there were a total of fifteen (15) curfew violations. A decrease of ten (10) from the twenty-five (25) curfew violations during the 3rd Quarter of 2018.

## **Residential Sound Insulation Program**

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Per the requirements of SAN's Variance agreement, the Airport Authority sponsors a Residential Sound Insulation Program (RSIP), also known as the Quieter Home Program (QHP). To date, the QHP has established eight eligibility boundaries. The eight boundaries are the Pilot/Phase 1A Boundary, the Phase 1B Boundary, the Phase 1C Boundary, the Supplemental Expansion Boundaries 1, 2, & 3, the 2014 NEM 68 dB CNEL boundary, and the 2014 NEM 67 dB CNEL boundary. Within each boundary there have been subsets, called phases and groups. Through 3rd Quarter 2019, QHP has completed 4,046 homes within the aforementioned boundaries.

## **Airport Noise Advisory Committee (ANAC)**

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The San Diego County Regional Airport Authority (Airport Authority) recognizes that neighborhoods surrounding SAN are affected by noise from aircraft operations. An Airport Noise Advisory Committee (ANAC), consisting of individuals from various organizations, residential areas, and professional associations, was formed in 1981 under the San Diego Unified Port District, previous operator of San Diego International Airport. ANAC is formally adopted as Airport Authority Policy 9.20.

Further information regarding ANAC can be found on the Airport Authority's website: <http://www.SAN.org/Airport-Noise/Initiatives> .

## Appendix A

### Airport Noise Monitoring System Thresholds and Levels

## Appendix A1

### Remote Monitoring Terminal (RMTs) Thresholds

RMT #	SENEL Day Threshold (dB)	Duration (sec)	SENEL Evening Threshold (dB)	Duration (sec)	SENEL Night Threshold (dB)	Duration (sec)
1	73*	9	73	9	72*	10
2	63	10	60	12	58	14
3	74*	9	73	10	72*	10
4	64*	10	63	12	60*	12
6	68*	8	67	9	65*	10
7	65	12	63	12	62	15
9	68*	8	67	9	65*	10
10	65*	8	62	12	60*	13
11	65*	12	63	13	60*	15
12	64*	10	62	12	60*	14
13	65*	8	62	12	60*	13
14	65*	10	62	12	60*	13
16	67*	8	66	9	65*	10
17	64	9	62	12	58	15
18	65	8	65	8	62	12
19	64*	8	64	8	63*	8
20	62	11	62	11	60	13
21	60	10	58	12	55	18
22	65	8	63	10	60	12
23	65*	8	63	10	60*	12
24	65*	8	65	8	63*	10
25	65*	10	62	10	60*	12

**KEY:**

**Day:** From 7:00 a.m. to 6:59 p.m. (\* = change occurs at 0500L)

**Evening:** From 7:00 p.m. to 9:59 p.m.

**Night:** From 10:00 p.m. to 6:59 a.m. (\* = change occurs at 0500L)

Note 1: RMTs #1 and #3 high threshold levels are due to high freeway and/or construction noise.

Note 2: Noise monitors comply with all applicable settings as specified in the California Noise Standards (Title 21). Noise events must meet both threshold criteria to be considered for further review.

## Appendix A2

### Daily/Monthly CNEL Levels – July 2019

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	67.8	66.5	63.4	65.7	68.8	74.9	67.1	63.9	72.5	62.4	65.5
2	68.2	66.6	62.5	65.2	68.8	75.1	66.4	63.7	71.8	62.0	65.8
3	69.1	67.0	63.5	65.7	68.5	74.8	66.7	63.1	71.4	61.3	65.8
4	65.8	64.5	61.0	63.3	67.1	73.9	65.8	62.0	70.4	61.0	65.1
5	67.6	66.1	62.5	64.9	67.9	74.4	65.6	62.8	71.0	60.9	65.6
6	67.9	66.6	62.4	64.5	68.2	75.0	66.1	63.1	71.4	60.7	65.0
7	68.5	66.9	61.6	65.7	69.4	75.3	67.1	64.1	72.0	61.8	67.1
8	67.9	66.9	62.2	65.5	69.2	75.1	66.9	64.4	71.5	62.2	66.4
9	68.7	67.0	64.9	65.7	68.9	74.7	66.1	63.6	71.2	62.0	66.2
10	68.9	66.7	63.6	65.7	68.8	74.4	65.2	63.2	70.8	61.4	65.1
11	68.5	66.3	94.8	65.7	68.7	75.1	66.2	62.9	71.3	60.5	65.2
12	68.5	66.5	82.0	65.6	68.8	75.5	66.9	63.2	71.5	61.1	65.9
13	75.3	63.4	95.2	67.1	68.6	76.3	66.8	61.4	72.7	57.3	63.5
14	76.4	66.2	95.2	64.8	68.9	75.5	66.5	62.9	71.4	61.3	65.1
15	66.8	65.9	95.2	65.2	68.4	75.3	67.2	62.7	71.5	62.0	65.1
16	68.2	64.8	95.2	66.4	70.0	76.6	68.1	62.6	72.4	59.5	64.7
17	67.6	66.0	84.8	66.0	69.6	76.5	67.3	63.3	72.7	61.1	65.1
18	68.5	67.2	84.9	66.0	69.5	75.1	66.8	63.8	71.6	61.8	65.9
19	68.7	67.4	95.2	66.2	67.5	74.6	66.8	63.7	71.2	62.2	66.1
20	67.5	66.1	63.9	65.1	*	74.6	66.0	63.2	71.0	61.0	66.0
21	67.3	66.5	63.6	65.3	*	75.7	66.5	63.6	71.9	61.1	66.3
22	67.0	66.2	61.4	65.2	73.1	75.0	66.3	63.0	71.6	63.2	66.3
23	67.2	66.4	62.0	65.8	68.4	74.7	65.9	62.8	71.1	61.2	65.4
24	65.7	65.9	60.5	64.9	68.1	75.4	66.5	62.5	71.3	60.7	64.8
25	67.2	66.4	62.1	65.5	69.1	73.9	65.3	60.9	71.7	59.3	65.3
26	68.0	66.9	64.4	65.6	68.4	75.2	66.0	62.9	71.6	61.1	65.7
27	65.8	65.5	63.1	64.5	67.9	74.6	65.2	62.4	71.0	59.9	64.7
28	66.6	66.0	60.6	64.8	68.8	75.5	66.4	63.3	71.5	61.0	66.2
29	67.6	66.1	62.2	65.1	69.1	75.2	67.3	63.6	71.4	61.8	65.4
30	68.4	66.6	62.6	65.7	68.9	75.3	66.4	63.8	71.7	61.4	65.8
31	68.9	67.0	64.4	66.2	68.8	74.7	66.4	63.6	71.0	61.4	65.5
<b>Month</b>	<b>69.1</b>	<b>66.3</b>	<b>88.2</b>	<b>65.5</b>	<b>69.0</b>	<b>75.1</b>	<b>66.5</b>	<b>63.2</b>	<b>71.6</b>	<b>61.3</b>	<b>65.6</b>

\*RMT was out of service.

## Appendix A2 Continued

### Daily/Monthly CNEL Levels – July 2019

Day	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	64.1	64.4	64.8	57.9	61.4	60.9	57.4	64.4	61.8	63.9	61.0	63.7
2	64.8	64.9	64.9	57.7	63.7	61.1	57.7	64.1	62.9	64.0	61.7	63.4
3	64.7	65.4	65.2	60.4	64.4	60.7	57.1	63.7	62.7	63.8	61.3	64.0
4	64.3	62.5	62.8	57.4	62.4	60.1	58.9	63.6	63.0	63.1	61.8	61.5
5	64.7	64.3	64.4	57.7	62.3	60.7	57.7	64.1	63.2	63.9	61.7	63.5
6	64.2	63.9	64.3	58.0	63.5	60.7	55.6	62.8	62.4	63.6	60.2	63.2
7	65.8	65.0	65.1	59.7	64.3	61.5	58.3	65.1	64.0	65.2	62.5	63.9
8	65.0	64.6	65.1	59.2	64.3	61.5	58.7	66.8	63.7	64.9	62.0	64.4
9	65.4	64.8	65.3	58.0	60.2	61.2	58.4	64.6	63.4	64.3	62.5	63.9
10	64.7	64.3	65.0	59.1	58.7	60.7	57.8	63.6	63.0	63.5	61.7	63.5
11	64.2	64.1	64.7	58.1	60.8	60.2	56.1	63.3	62.0	63.4	61.0	63.2
12	64.5	64.6	65.0	57.8	61.8	60.7	58.8	64.1	63.0	64.2	61.2	64.5
13	67.1	61.2	62.2	62.3	63.8	57.7	55.2	61.6	60.8	61.4	59.1	59.7
14	64.1	63.9	64.5	56.5	59.8	59.8	54.7	63.0	62.9	63.2	59.7	62.9
15	63.9	64.3	64.7	59.7	62.7	62.5	57.2	65.7	62.7	63.2	59.9	62.7
16	66.4	62.9	63.4	61.5	65.6	58.0	56.1	62.8	62.7	63.5	59.7	60.5
17	65.5	69.0	64.2	61.4	64.9	59.5	54.3	63.2	62.7	63.6	59.4	62.5
18	64.6	65.2	65.7	59.1	62.1	61.0	56.5	64.1	63.3	64.5	61.0	64.2
19	64.9	65.2	65.6	58.8	62.8	61.0	57.8	64.3	63.7	64.4	61.7	64.2
20	65.2	63.5	64.3	58.5	58.4	61.7	58.5	64.5	63.7	64.3	62.5	63.2
21	64.9	63.9	64.9	58.8	60.9	61.8	57.2	64.3	63.3	64.5	61.8	63.2
22	65.9	63.9	64.7	57.2	60.1	61.2	58.4	66.6	63.1	64.7	61.6	63.8
23	63.9	64.2	65.0	57.1	59.3	60.4	55.9	63.8	62.3	63.8	60.7	63.5
24	64.1	63.9	64.5	61.6	63.2	60.5	56.2	62.9	61.6	62.9	60.8	63.0
25	64.0	64.2	64.7	55.4	60.2	60.0	56.9	63.4	62.3	63.6	61.0	63.4
26	64.6	64.4	65.3	57.4	61.1	61.4	56.4	65.0	63.4	64.0	61.0	65.0
27	64.1	62.9	64.0	60.8	59.5	60.1	56.2	62.9	62.7	63.7	60.6	62.0
28	64.9	63.5	64.4	57.0	62.8	60.6	56.7	64.1	63.8	64.7	61.2	62.7
29	64.3	63.8	64.6	58.0	63.1	60.5	57.2	65.3	62.6	64.1	60.9	62.9
30	64.7	64.6	65.0	59.5	63.7	60.9	57.4	64.0	63.1	64.2	61.0	63.7
31	64.2	65.0	65.5	59.3	62.1	60.3	56.4	63.7	62.8	64.1	60.4	65.3
<b>Month</b>	<b>64.8</b>	<b>64.5</b>	<b>64.7</b>	<b>59.0</b>	<b>62.5</b>	<b>60.7</b>	<b>57.2</b>	<b>64.2</b>	<b>62.9</b>	<b>63.9</b>	<b>61.1</b>	<b>63.4</b>

## Appendix A3

### Daily/Monthly CNEL Levels – August 2019

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	68.3	66.8	64.7	65.9	68.5	74.9	66.5	63.2	71.3	60.8	64.8
2	68.1	66.9	64.2	66.0	68.5	75.1	66.3	62.5	70.9	60.1	64.2
3	66.7	65.8	61.7	64.7	68.0	74.8	66.8	62.1	71.0	59.8	64.5
4	67.0	66.0	61.9	65.1	68.5	75.2	66.4	62.6	71.3	60.2	65.7
5	67.3	66.2	61.9	65.0	68.6	74.7	65.6	62.8	70.9	60.2	65.2
6	67.8	66.1	62.4	65.2	68.8	75.1	66.3	63.3	71.6	61.4	66.1
7	68.0	66.4	62.0	65.6	68.5	74.9	66.7	63.3	71.4	61.4	65.6
8	68.7	66.7	64.0	65.8	68.9	75.0	66.1	63.2	71.7	61.5	65.0
9	69.0	67.0	64.8	65.9	68.3	75.3	67.5	62.5	71.5	60.5	65.5
10	67.2	65.4	62.1	65.0	68.0	74.7	66.2	62.8	71.2	60.3	65.4
11	67.4	66.0	61.8	64.8	68.8	75.1	65.8	63.5	71.6	61.3	66.3
12	67.8	66.3	62.3	65.0	68.3	74.8	66.1	63.2	71.3	61.7	66.0
13	67.3	66.3	63.0	65.7	68.3	74.3	65.7	62.7	70.5	60.4	64.7
14	66.5	65.9	64.2	67.0	68.1	74.8	65.8	62.1	71.2	60.2	63.9
15	68.4	66.3	64.7	66.5	69.0	75.2	66.0	62.8	71.3	60.8	64.8
16	69.7	66.6	63.3	65.4	68.4	74.9	67.0	62.8	71.1	60.6	65.1
17	66.3	65.6	61.0	64.0	67.7	74.4	65.3	62.5	70.7	60.2	65.2
18	67.3	65.9	62.1	64.6	68.7	74.8	66.1	63.5	71.2	61.3	66.2
19	67.9	66.3	62.6	65.3	68.7	75.0	65.1	62.9	71.3	61.8	65.8
20	68.3	66.2	63.9	65.3	68.2	73.8	64.4	62.2	70.1	60.1	63.9
21	66.9	65.3	62.1	67.5	68.1	74.9	66.4	62.5	71.4	60.9	64.6
22	67.6	66.2	62.5	65.9	69.3	75.7	67.0	62.9	72.0	61.5	65.3
23	68.4	67.1	62.1	65.8	69.0	75.2	66.8	63.7	71.8	62.5	66.3
24	66.1	64.1	61.7	63.6	67.4	74.3	65.4	61.9	70.9	61.3	65.3
25	64.8	65.2	59.9	64.2	67.9	75.5	65.4	61.9	71.7	59.3	64.8
26	65.9	65.5	60.1	64.1	68.5	75.0	66.7	62.4	71.6	60.6	65.5
27	67.0	65.8	60.7	64.4	68.4	73.9	64.9	63.0	70.4	59.7	64.2
28	68.2	66.5	62.2	65.4	68.1	74.5	65.5	62.8	71.1	61.1	65.2
29	67.8	66.6	63.6	65.5	68.8	74.6	66.9	62.1	71.1	60.4	65.1
30	67.9	66.4	63.2	65.2	68.0	74.9	67.1	62.5	71.4	62.2	65.5
31	65.2	63.8	60.4	62.8	66.4	73.4	64.4	60.3	69.6	57.6	63.0
<b>Month</b>	<b>67.6</b>	<b>66.1</b>	<b>62.7</b>	<b>65.3</b>	<b>68.4</b>	<b>74.8</b>	<b>66.1</b>	<b>62.7</b>	<b>71.2</b>	<b>60.8</b>	<b>65.2</b>



## Appendix A3 Continued

### Daily/Monthly CNEL Log – August 2019

Day	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	63.5	64.9	65.3	58.3	59.7	60.4	55.4	62.8	61.2	63.3	59.9	63.8
2	63.0	64.5	65.3	57.4	59.6	59.5	55.4	62.2	61.2	63.0	59.1	63.2
3	63.9	63.8	64.0	56.4	60.9	59.6	55.2	62.5	61.4	62.6	59.9	62.4
4	64.1	64.1	64.3	56.1	61.3	60.2	56.1	63.6	62.5	64.3	60.5	62.9
5	64.0	64.0	64.4	56.9	60.9	60.4	57.3	64.3	61.9	63.7	61.0	63.1
6	64.6	64.0	64.6	58.4	62.0	61.1	57.2	64.3	62.9	64.8	61.5	63.3
7	64.8	64.6	64.8	59.3	62.1	60.7	57.2	63.6	62.6	64.0	61.3	63.5
8	63.6	65.3	65.2	58.2	60.7	60.8	56.4	62.6	62.0	63.7	60.9	63.7
9	64.1	65.5	65.6	57.0	61.0	59.9	56.3	63.8	62.7	64.1	60.2	65.1
10	64.6	63.1	63.7	57.8	62.2	60.5	56.9	63.7	62.2	63.4	61.0	62.2
11	65.0	63.5	64.3	57.7	62.4	61.3	57.7	64.3	63.3	64.7	61.8	62.8
12	64.7	64.3	64.6	59.3	62.3	60.7	57.4	65.4	62.7	64.5	61.2	63.1
13	64.3	64.3	64.7	58.1	58.6	59.6	55.9	62.7	61.0	62.9	60.2	63.2
14	64.4	63.3	64.2	60.7	58.7	59.3	55.2	61.5	59.8	62.4	59.7	62.3
15	64.0	66.5	64.7	58.8	60.6	60.4	55.3	62.5	61.8	63.4	60.9	63.4
16	64.0	65.4	65.1	60.1	63.0	59.8	56.3	63.1	62.3	63.6	60.1	63.7
17	64.5	63.7	63.8	58.8	62.7	60.2	56.8	63.3	62.3	63.3	60.9	62.9
18	65.0	63.9	64.3	58.3	62.5	61.0	57.8	64.3	64.0	64.7	62.0	62.9
19	65.1	63.9	64.8	55.1	56.9	61.4	57.6	66.1	62.3	64.2	61.8	63.3
20	63.3	63.8	64.8	56.2	57.3	59.6	55.8	62.0	60.2	63.2	60.2	62.8
21	64.1	63.3	63.7	60.0	61.8	59.8	55.5	62.2	60.6	63.2	60.0	62.5
22	64.1	64.3	64.5	61.0	64.1	59.4	56.2	63.3	62.6	63.8	60.4	63.2
23	64.8	65.2	65.3	58.7	63.8	61.0	57.8	64.4	63.6	65.7	61.5	64.1
24	64.6	62.2	62.3	56.6	57.6	60.6	57.0	63.5	62.9	63.3	61.4	61.2
25	64.1	62.7	63.7	61.3	60.7	60.0	55.7	63.0	62.5	62.9	60.2	61.6
26	64.1	63.4	63.7	57.0	59.9	60.5	57.0	65.2	62.0	63.5	61.0	62.6
27	63.4	65.6	64.1	56.7	61.9	59.7	56.7	63.0	61.7	63.3	60.5	62.6
28	64.3	64.9	64.7	59.7	62.3	60.5	56.6	63.6	62.3	63.6	60.9	63.9
29	64.0	68.5	64.8	58.6	62.0	60.3	56.8	63.3	62.0	63.9	60.6	63.4
30	64.6	66.3	64.6	57.5	62.8	60.6	57.5	63.6	62.3	64.0	61.8	64.8
31	62.6	61.5	62.5	55.9	59.9	57.8	53.8	60.9	60.4	61.0	58.3	60.7
<b>Month</b>	<b>64.2</b>	<b>64.6</b>	<b>64.5</b>	<b>58.4</b>	<b>61.4</b>	<b>60.3</b>	<b>56.5</b>	<b>63.5</b>	<b>62.1</b>	<b>63.7</b>	<b>60.7</b>	<b>63.1</b>

## Appendix A4

### Daily/Monthly CNEL Levels – September 2019

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	63.9	63.8	60.3	62.8	66.2	73.7	65.2	60.5	70.1	58.8	64.0
2	65.5	65.2	59.2	65.4	67.6	74.4	64.9	62.5	70.8	60.6	65.0
3	66.4	65.4	60.2	64.8	67.7	74.4	65.5	61.7	71.0	59.9	65.0
4	65.1	65.1	60.3	64.3	67.7	73.7	64.5	61.8	70.4	60.2	64.1
5	66.1	65.6	59.6	64.5	67.3	73.9	65.6	61.7	70.6	59.5	64.7
6	67.0	65.3	62.4	64.4	67.5	74.0	66.0	61.8	70.5	59.8	64.6
7	66.0	64.1	60.1	63.0	66.9	73.4	64.0	63.8	69.9	58.9	64.1
8	66.3	65.4	61.0	64.0	68.2	74.7	66.4	62.9	71.3	61.2	66.1
9	67.0	66.1	59.1	65.4	68.8	74.3	65.8	63.8	70.8	61.2	65.7
10	67.0	65.7	60.1	64.2	68.4	74.3	66.2	67.1	71.0	61.6	65.7
11	67.8	65.6	62.0	64.6	68.5	74.7	66.8	63.7	71.4	62.3	65.9
12	67.6	66.4	63.2	65.1	68.4	75.3	66.1	62.9	71.8	60.9	65.2
13	66.6	65.4	62.8	64.4	67.8	74.7	65.9	61.5	71.2	59.8	64.7
14	65.4	64.2	60.0	63.0	67.1	73.7	66.2	60.9	70.0	58.6	63.4
15	66.3	65.7	61.2	64.4	68.0	74.8	66.0	62.7	71.2	60.5	65.1
16	67.0	65.9	61.4	65.0	67.9	74.9	64.0	63.0	71.3	61.2	65.5
17	67.7	65.8	61.8	64.7	68.1	73.7	65.8	63.0	70.3	61.2	65.3
18	67.5	66.3	62.0	64.9	67.9	74.5	65.7	62.7	71.1	61.3	65.6
19	68.2	66.4	62.8	65.0	69.0	75.2	65.6	63.5	71.8	61.8	66.2
20	68.9	66.5	64.5	65.3	68.5	74.7	64.9	63.2	71.0	61.5	65.8
21	65.2	64.0	61.5	63.1	66.8	73.8	67.1	62.8	70.2	59.2	64.6
22	65.9	65.4	61.2	64.7	67.7	75.0	66.7	62.4	71.4	60.7	65.8
23	67.2	66.1	62.0	64.6	68.1	75.0	66.1	63.5	71.6	62.0	66.3
24	67.3	65.4	62.1	64.3	68.2	74.6	65.2	63.1	71.0	60.8	65.3
25	67.9	65.8	60.9	64.9	68.3	75.6	66.7	64.0	72.1	60.7	65.5
26	68.4	66.7	62.6	65.8	69.1	75.0	66.8	67.8	71.6	62.1	66.2
27	68.6	66.4	64.1	64.8	68.4	74.3	65.8	63.2	70.8	62.6	65.6
28	67.1	65.1	60.5	63.9	67.2	73.3	64.7	62.2	69.9	60.7	64.6
29	67.9	66.0	62.5	64.5	68.1	74.7	67.6	63.3	71.0	61.4	66.0
30	68.3	66.1	63.5	64.7	68.2	75.0	67.3	63.2	71.6	61.5	66.1
<b>Month</b>	<b>67.1</b>	<b>65.6</b>	<b>61.7</b>	<b>64.5</b>	<b>68.0</b>	<b>74.5</b>	<b>65.9</b>	<b>63.3</b>	<b>71.0</b>	<b>60.9</b>	<b>65.3</b>

## Appendix A4 Continued

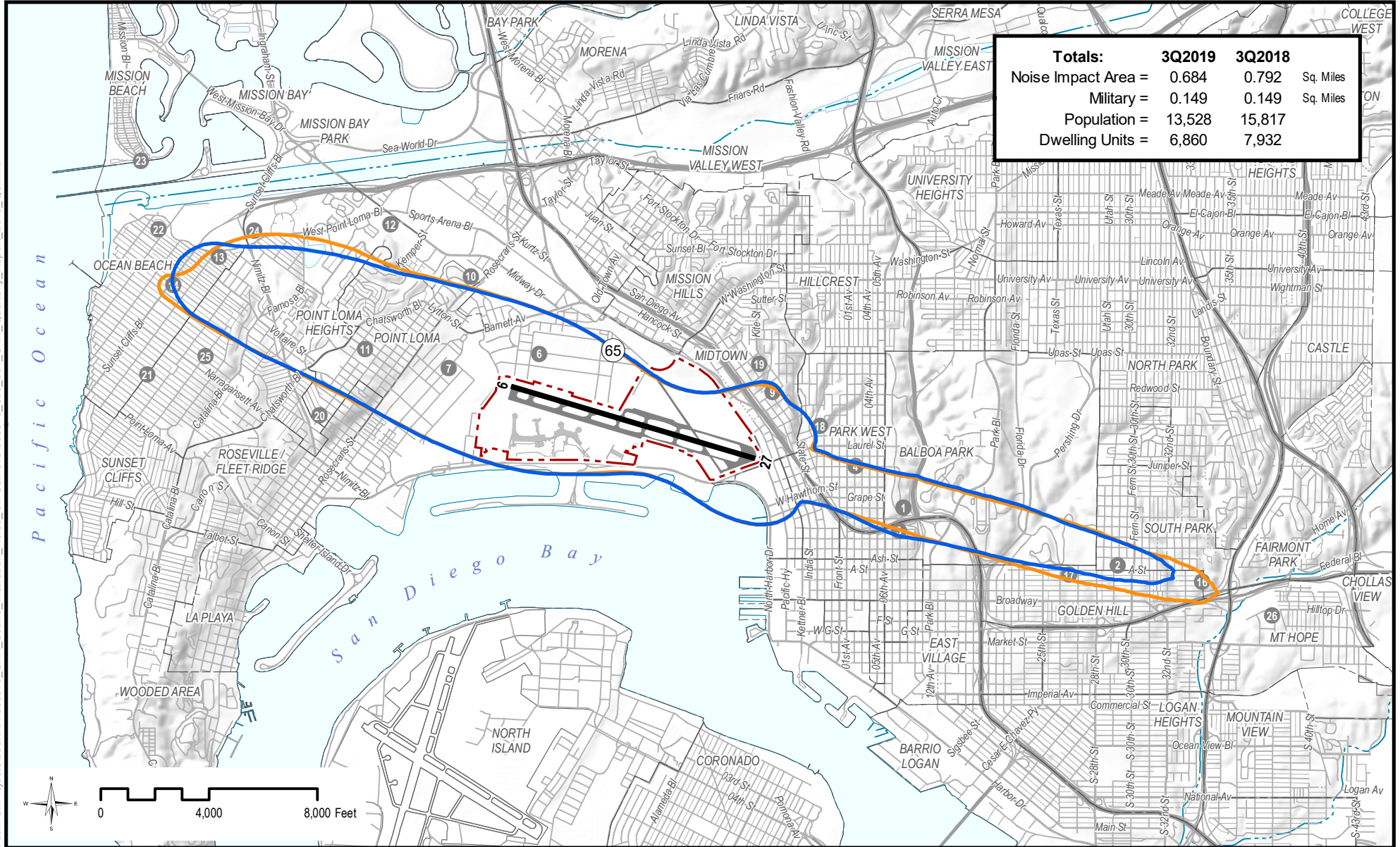
### Daily/Monthly CNEL Log – September 2019

Day	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	63.3	62.0	62.2	54.4	59.7	58.6	54.8	62.0	60.7	62.0	59.6	60.5
2	63.7	62.8	63.5	56.4	60.8	59.4	55.3	63.2	62.1	63.4	59.9	62.4
3	64.0	63.5	64.0	57.1	60.1	60.5	56.7	65.1	62.8	63.2	60.8	61.9
4	63.9	67.5	63.5	57.3	59.1	60.2	56.7	62.4	60.9	62.2	60.7	62.5
5	63.7	66.6	63.8	59.0	62.3	59.8	56.6	62.9	61.6	62.9	58.1	62.3
6	64.0	63.4	63.8	57.9	62.8	60.1	56.9	62.9	61.0	62.6	60.9	62.3
7	63.7	61.6	62.3	55.3	60.9	59.1	55.9	62.1	61.4	62.3	60.1	60.6
8	65.1	63.2	63.8	58.9	63.6	60.7	57.6	64.3	63.8	64.6	61.5	62.2
9	64.3	69.3	64.4	58.0	63.0	60.3	57.4	65.4	63.1	64.0	61.1	63.3
10	64.7	65.1	63.9	58.2	63.2	60.5	57.9	64.1	63.2	64.2	61.6	62.7
11	65.2	65.8	64.2	57.4	63.4	61.1	58.3	64.2	62.6	64.2	62.7	62.7
12	64.2	65.4	64.6	62.3	61.3	60.9	56.5	63.4	62.7	63.8	60.8	63.3
13	64.3	63.5	63.9	56.3	59.6	59.7	55.9	62.5	61.9	62.8	59.9	62.2
14	62.6	62.7	62.7	62.1	63.2	59.3	55.1	61.6	60.6	61.1	60.0	60.7
15	63.6	63.4	64.2	61.7	62.3	60.5	56.4	63.0	62.3	63.5	60.4	62.2
16	64.6	64.1	64.3	55.5	60.0	60.5	57.5	65.9	62.1	63.6	61.0	62.7
17	64.2	63.8	64.1	58.8	62.4	60.2	57.3	63.5	62.3	63.6	61.3	62.9
18	64.9	64.2	64.5	56.8	62.7	60.3	57.6	64.0	62.2	63.8	61.4	63.4
19	65.2	64.7	64.8	55.8	63.4	61.5	58.3	64.6	63.1	64.6	62.0	63.4
20	64.6	64.6	64.8	56.7	60.5	61.0	58.3	64.2	63.0	64.8	62.1	63.5
21	64.1	61.7	62.4	58.7	64.3	59.9	56.7	62.9	61.8	62.5	61.3	61.0
22	64.5	63.2	63.5	57.7	63.0	60.2	56.6	63.9	63.2	64.1	60.5	62.1
23	65.3	64.1	64.4	58.1	63.2	61.2	58.3	66.6	63.1	64.5	62.0	63.6
24	64.6	63.5	63.8	55.9	62.1	60.6	57.6	63.5	62.3	63.4	61.7	62.4
25	65.1	64.5	64.2	62.4	64.4	60.7	56.8	63.6	62.1	63.6	61.3	63.3
26	64.7	65.0	67.3	60.3	64.0	60.9	57.7	64.4	63.2	64.5	61.5	63.5
27	64.4	64.0	70.0	57.3	59.5	60.9	57.5	63.9	63.4	64.1	61.8	63.5
28	63.8	63.1	63.6	59.5	62.3	59.7	56.7	63.1	62.0	62.8	60.7	62.0
29	64.6	64.2	64.6	60.9	63.6	60.9	58.0	64.5	64.0	64.2	61.9	62.8
30	65.3	64.4	64.6	58.9	62.9	61.6	58.7	66.1	63.6	64.2	62.5	63.4
<b>Month</b>	<b>64.4</b>	<b>64.5</b>	<b>64.5</b>	<b>58.7</b>	<b>62.4</b>	<b>60.4</b>	<b>57.2</b>	<b>64.0</b>	<b>62.5</b>	<b>63.6</b>	<b>61.1</b>	<b>62.6</b>

## Appendix B

### ANOMS Commercial Flight Operations Mix – 3rd Quarter 2019

Aircraft Type	American	Allegiant	Alaska	British Airways	Compass	Delta Air Lines	Lufthansa	Edelweiss	Frontier	Hawaiian	Japan	jetBlue	Jazz	Spirit	Air Canada Rouge	Sun Country	SkyWest	Southwest	United	Westjet	Atlas	FedEx	UPS	Total Operations
A20N	0	0	0	0	0	0	0	0	529	0	0	0	0	52	0	0	0	0	0	0	0	0	0	581
A21N	4	0	56	0	0	0	0	0	0	196	0	0	0	0	0	0	0	0	0	0	0	0	0	256
A306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
A319	38	0	839	0	0	60	0	0	167	0	0	0	0	180	16	0	0	0	275	0	0	0	0	1,575
A320	220	128	2,178	0	0	1,276	0	0	259	0	0	250	0	440	168	0	0	0	1,086	0	0	0	0	6,005
A321	2,630	2	0	0	0	2,631	0	0	14	0	0	842	0	638	0	0	0	0	0	0	0	0	0	6,757
A332	1,591	0	0	0	0	0	0	0	0	172	0	0	0	0	0	0	0	0	0	0	0	0	0	1,763
A343	0	0	0	0	0	0	132	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
A346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B38M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B39M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B712	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
B736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
B737	0	0	8	0	0	0	0	0	0	0	0	0	0	0	32	0	16,547	104	23	0	0	0	0	16,714
B738	0	0	1,202	0	0	165	0	0	0	0	0	0	0	0	174	0	4,645	1,359	119	0	0	0	0	7,664
B739	0	0	1,689	0	0	78	0	0	0	0	0	0	0	0	0	0	0	2,288	0	0	0	0	0	4,055
B744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B752	122	0	0	0	0	524	0	0	0	0	0	0	0	0	0	0	0	182	0	0	135	2	965	
B753	0	0	0	0	0	210	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	214
B762	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	0	0	0	132
B763	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	476	210	690	
B764	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
B772	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
B77W	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
B788	0	0	0	0	0	0	0	0	0	184	0	0	0	0	0	0	0	0	0	0	0	0	0	184
CRJ2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	610	0	0	0	0	0	0	0	610
CRJ7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248	0	0	0	0	0	0	0	248
CRJ9	0	0	0	0	0	0	0	0	0	0	0	0	552	0	0	0	0	0	0	0	0	0	0	552
DC10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E175	0	0	1,061	0	2,152	0	0	0	0	0	0	0	0	0	0	2,742	0	0	0	0	0	0	0	5,955
MD11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
MD80+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4,605</b>	<b>130</b>	<b>7,033</b>	<b>180</b>	<b>2,152</b>	<b>5,070</b>	<b>132</b>	<b>26</b>	<b>969</b>	<b>368</b>	<b>184</b>	<b>1,092</b>	<b>552</b>	<b>1,310</b>	<b>184</b>	<b>206</b>	<b>3,600</b>	<b>21,192</b>	<b>5,298</b>	<b>148</b>	<b>132</b>	<b>615</b>	<b>212</b>	<b>55,390</b>
BE99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153	0	0	0	153
PA31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	42
C208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	0	86
SW3/4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	414	0	0	414
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>153</b>	<b>414</b>	<b>128</b>	<b>695</b>	



Path: G:\Projects\308XXX\308970\_SAN\_Sound\_Insulation\_Noise\_Or-Call\GIS\308970\_003\_001\_SAN\_Quarterly\_Report\_2019\_Q3.mxd



- 2019 3rd Quarter 65 dB CNEL Contour
- 2018 3rd Quarter 65 dB CNEL Contour
- Airport Property
- Runway
- # RMT Site Location
- Roads
- - - River / Stream

### Comparison of the 2018 and 2019 Third Quarter 65 dB Community Noise Equivalent Level (CNEL) Contours

