

# Quarterly Noise Report

For:  
California Department of Transportation

**2<sup>nd</sup> Quarter 2019**  
April 1, 2019 – June 30, 2019



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

**Airport Noise Office**

September 5, 2019



**Quarterly Noise Report**  
**For the Period**  
April 1, 2019 through June 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 2nd Quarter of 2019 was prepared by Airport Noise Mitigation at San Diego International Airport, in accordance with the Airport Noise Standards, State of California.

Brendan Reed  
Director of Planning & Environmental Affairs

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 = 0.675 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:  
**6,790\* (QHP Insulated = 3,918)**

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3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:  
**13,316\* (QHP Insulated = 9,795)**

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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: 130**

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5. Total number of aircraft operations during the calendar quarter:  
**57,883**

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6. Number of Air Carrier operations by aircraft certified under Federal Aviation Regulations (FAR) Part 36:  
**52,390**

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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. Estimated number of operations by Air Taxi aircraft during the calendar quarter:  
**2,997**

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9. Estimated number of operations by General Aviation aircraft during the calendar quarter:  
**2,330**

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10. Estimated number of operations by Military aircraft during the calendar quarter:  
**166**

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Form DOA 617, 10/89

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

## 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 July 1, 2018 through June 30, 2019 to be 0.675 square miles (432.0 acres) and 0.149 square miles (95.4 acres), respectively. As compared to the period of July 1, 2017 through June 30, 2018, the N.I.A decreased by 0.140 square miles and the Federal M.I.A. increased by 0.001 square miles.

The reduction in the size of the 2<sup>nd</sup> Quarter 2019 N.I.A. compared to the 2<sup>nd</sup> Quarter 2018 is largely due to the changes in aircraft fleet. Essentially, louder aircraft were replaced by quieter aircraft. The following changes in aircraft fleet that have resulted in a reduction in the size of the noise contour.

- 52% and 25% increase in the number of quieter A320neo and A321neo operations, respectively.
- 33% reduction in the number of louder B717 operations.
- 50% reduction in the number of DC10 widebody operations.
- 94% and 96% reduction in the number of louder MD80 and MD90 operations, respectively.

**Table 1**

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

Impact Area	July 1, 2018 to June 30, 2019	July 1, 2017 to June 30, 2018	Change
N.I.A.	0.675	0.815	-0.140
M.I.A.	0.149	0.148	0.001

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 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 CNEL contours for the period of July 1, 2018 through June 30, 2019 compared to the period of July 1, 2017 through June 30, 2018 accompanies this report as an attachment.

**Table 2****Quarterly and Annual CNEL Data**

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<b>RMT #</b>	<b>Annual CNEL (dB)<sup>1</sup></b>	<b>Quarter CNEL (dB)<sup>2</sup></b>
1	68.6	68.6
2	66.1	65.8
3	64.2	64.8
4	65.5	65.6
6	69.0	69.1
7	75.1	74.8
9	66.9	67.1
10	63.3	63.5
11	71.4	71.2
12	61.7	61.8
13	65.8	65.6
14	65.1	65.4
16	64.3	64.3
17	64.7	64.3
18	62.3	64.3
19	63.7	64.3
20	61.0	60.9
21	57.8	58.2
22	64.7	64.6
23	63.6	63.7
24	64.2	63.9
25	61.9	62.1
26	63.3	63.0

<sup>1</sup> = July 1, 2018 through June 30, 2019

<sup>2</sup> = April 1, 2019 through June 30, 2019

Note 1: RMTs #5, #8 and #15 are no longer operational since the noise impact boundary has decreased in size.

## Aircraft Operations

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The following table contains statistics of aircraft operations based upon the Federal Aviation Administration (FAA) Air Traffic Control Tower counts at San Diego International Airport (SAN). This data can be obtained from the FAA's Air Traffic Activity Data System.

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

**Table 3**

SAN Air Traffic Control Tower Counts

Operations	2nd Quarter 2019	2nd Quarter 2018	Increase/Decrease	Percent Change
Air Carrier	52,390	51,215	1,175	2.3%
Air Taxi	2,997	3,195	(198)	-6.2%
General Aviation	2,330	2,475	(145)	-5.9%
Military	166	196	(30)	-15.3%
<b>Total</b>	<b>57,883</b>	<b>57,081</b>	<b>802</b>	<b>1.4%</b>

## Quarterly Operations Survey Report

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The Quarterly Operations Survey Report for SAN encompasses the 2nd 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 May 14-16, 2019 (Tables 5 through 7).

**Table 4**

Single Event Noise Exposure Level (SENEL) Comparison

	May 14-16, 2019	May 8-10, 2018	Change (dB)
Departures	99.5	100.5	-1.0
Arrivals	94.9	93.8	1.1

**Table 5**

Quarterly Operations Survey – Arrivals (RMT #1 from May 14-16, 2019)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Arriving From</b>	<b>Flight Number</b>	<b>Date and Time</b>
B738	101.9	LAS	SWA1918	5/16/2019 11:24 AM
B763	100.0	ATL	SWA925	5/16/2019 11:58 AM
B737	98.5	MEM	FDX906	5/14/2019 5:08 PM
B763	98.4	OAK	SWA1922	5/16/2019 11:19 AM
B737	97.0	IND	FDX3713	5/16/2019 5:12 PM
B737	96.5	IND	FDX3713	5/14/2019 5:03 PM
B763	96.5	SJC	SWA747	5/14/2019 7:44 AM
B763	95.9	SFO	SWA212	5/14/2019 7:46 AM
A321	95.7	MEM	FDX906	5/16/2019 5:17 PM
B737	95.6	PHX	AAL2671	5/16/2019 11:59 AM
B763	95.2	ATL	DAL724	5/16/2019 8:26 PM
B753	95.2	IND	FDX1754	5/16/2019 5:10 AM
B763	95.2	PHX	GTI505	5/14/2019 8:45 AM
B762	95.2	SDF	UPS922	5/14/2019 5:13 AM
B763	95.2	SMF	SWA879	5/14/2019 7:55 AM
B738	95.1	ATL	DAL724	5/14/2019 8:09 PM
B753	95.1	BRO	SWQ3581	5/14/2019 12:53 PM
B734	95.1	SDF	UPS2922	5/16/2019 5:51 PM
B763	95.0	JFK	DAL943	5/16/2019 2:11 PM
B738	95.0	LHR	BAW44N	5/14/2019 6:06 PM
B77W	95.0	LHR	BAW44N	5/16/2019 6:39 PM
B77W	95.0	SDF	UPS922	5/15/2019 5:17 AM
B763	95.0	SEA	DAL348	5/16/2019 2:17 PM
B739	94.9	IND	FDX1754	5/14/2019 5:19 AM
B763	94.8	DEN	UAL2104	5/16/2019 8:46 PM
B739	94.8	IND	FDX1754	5/15/2019 5:10 AM
B763	94.8	MEM	FDX1422	5/16/2019 5:14 AM
B763	94.8	ORD	UAL1590	5/16/2019 12:10 PM
B763	94.7	HNL	HAL16	5/14/2019 10:16 PM
A332	94.7	SDF	UPS2922	5/14/2019 5:28 PM
B752	94.6	MEM	FDX1422	5/15/2019 5:23 AM
B737	94.5	ATL	DAL1692	5/14/2019 9:40 AM
B753	94.5	DEN	UAL1472	5/16/2019 2:46 PM
B738	94.5	IAD	UAL229	5/16/2019 10:58 AM
B763	94.4	DAL	SWA2010	5/16/2019 3:59 PM
B738	94.4	SDF	UPS922	5/16/2019 5:08 AM
B763	94.4	SFO	SWA212	5/14/2019 7:46 AM
B739	94.2	IND	FDX3713	5/15/2019 4:49 PM
B763	94.2	LHR	BAW44N	5/15/2019 6:38 PM

**Table 5 Continued**

Quarterly Operations Survey – Arrivals (RMT #1 from May 14-16, 2019)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Departing To</b>	<b>Flight Number</b>	<b>Date and Time</b>
B77W	94.2	MEM	FDX1422	5/14/2019 5:28 AM
B737	94.1	ATL	DAL1692	5/15/2019 9:27 AM
B753	94.1	EWR	ASA773	5/16/2019 6:59 PM
B739	94.0	DAL	SWA6599	5/16/2019 1:51 PM
B739	93.9	IAH	UAL2156	5/16/2019 1:13 PM
B738	93.9	PDX	ASA338	5/16/2019 8:52 PM
B737	93.8	DEN	UAL710	5/16/2019 4:59 PM
B739	93.8	IAH	UAL2261	5/14/2019 10:42 AM
B739	93.8	SFO	UAL1100	5/16/2019 8:57 PM
B737	93.7	LAS	SWA1479	5/16/2019 3:15 PM
B738	93.7	MEM	FDX906	5/15/2019 5:20 PM
B763	93.7	SEA	ASA472	5/16/2019 4:34 PM
B739	93.7	SJC	SWA2192	5/16/2019 2:23 PM
B738	93.6	DTW	NKS623	5/15/2019 10:25 AM
A319	93.6	JFK	DAL943	5/14/2019 2:06 PM
B738	93.6	RNO	SWA533	5/16/2019 11:06 PM
B763	93.5	ATL	DAL724	5/15/2019 8:04 PM
B753	93.5	DTW	DAL1025	5/16/2019 5:55 PM
A321	93.5	IAH	UAL991	5/16/2019 10:54 PM
B752	93.5	PHL	AAL1621	5/15/2019 10:27 AM
B737	93.4	DEN	UAL1108	5/14/2019 10:27 AM
B739	93.4	HNL	HAL16	5/16/2019 10:09 PM
A332	93.4	IAD	UAL2303	5/15/2019 7:47 PM
B739	93.4	IAH	UAL2261	5/16/2019 10:49 AM
B739	93.4	OAK	FDX1889	5/14/2019 5:25 AM
B752	93.4	PHX	GTI505	5/15/2019 8:44 AM
B762	93.4	SDF	UPS2922	5/15/2019 5:33 PM
B738	93.3	IAD	UAL229	5/14/2019 11:00 AM
B752	93.3	LAX	CPZ5774	5/16/2019 8:41 PM
E75L	93.3	SFO	UAL1287	5/16/2019 10:52 PM
B739	93.3	TUS	SWA1966	5/16/2019 2:21 PM
A320	93.2	EWR	SWA3698	5/16/2019 5:41 PM
B738	93.2	ONT	SWA925	5/16/2019 1:09 PM
B737	93.1	HOU	SWA147	5/16/2019 9:38 AM
B738	93.1	IAD	UAL229	5/15/2019 10:53 AM

**Table 6**

Quarterly Operations Survey – Departures (RMT #7 from May 14-16, 2019)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Destination</b>	<b>Flight Number</b>	<b>Date and Time</b>
A343	104.1	FRA	DLH2P	5/16/2019 3:01 PM
A343	103.0	FRA	DLH2P	5/15/2019 3:13 PM
A332	101.3	HNL	HAL15	5/16/2019 10:03 AM
B738	101.2	OGG	ASA829	5/15/2019 7:15 AM
A332	101.1	HNL	HAL15	5/15/2019 10:02 AM
A321	101.0	PHL	AAL433	5/16/2019 7:45 AM
A321	100.5	CLT	AAL1651	5/16/2019 7:50 AM
B739	100.4	ORD	UAL913	5/16/2019 7:10 AM
B739	100.4	BOS	ASA798	5/16/2019 9:53 AM
A321	100.2	PHL	AAL2078	5/14/2019 10:33 PM
B738	100.2	JFK	DAL1236	5/15/2019 7:44 AM
A321	100.2	DFW	AAL2535	5/16/2019 7:03 AM
B738	100.0	EWR	UAL1289	5/16/2019 7:18 AM
A332	99.9	HNL	HAL15	5/14/2019 11:03 AM
A321	99.9	CLT	AAL1889	5/14/2019 11:01 PM
B739	99.9	EWR	UAL395	5/15/2019 9:25 PM
B739	99.9	IAD	UAL546	5/16/2019 8:22 AM
B77W	99.9	LHR	BAW72A	5/16/2019 8:54 PM
B77W	99.8	LHR	BAW72A	5/15/2019 8:59 PM
B738	99.7	JFK	DAL1236	5/14/2019 7:39 AM
A321	99.7	DFW	AAL1611	5/15/2019 9:36 AM
A321	99.7	PHL	AAL2078	5/15/2019 10:39 PM
A321	99.7	CLT	AAL1889	5/15/2019 10:48 PM
A321	99.6	PHL	AAL433	5/15/2019 7:34 AM
B739	99.6	MCO	ASA760	5/16/2019 10:06 AM
B738	99.5	OGG	ASA829	5/16/2019 7:42 AM
A321	99.5	ATL	DAL1375	5/16/2019 7:53 AM
B739	99.4	BOS	ASA798	5/14/2019 10:56 AM
B739	99.4	IAD	UAL1916	5/15/2019 10:12 PM
B77W	99.3	LHR	BAW72A	5/14/2019 8:45 PM
B739	99.3	BOS	ASA798	5/15/2019 9:53 AM
A321	99.3	DTW	DAL2628	5/16/2019 7:33 AM
B738	99.3	HNL	ASA895	5/16/2019 11:14 AM
B739	99.2	EWR	ASA772	5/16/2019 7:00 AM
A321	99.2	DTW	DAL1635	5/16/2019 10:24 PM
A321	99.2	PHL	POAZDC	5/16/2019 10:27 PM
B739	99.1	IAD	UAL546	5/14/2019 8:21 AM
A321	99.1	PHL	AAL433	5/14/2019 10:13 AM
A321	99.1	CLT	AAL1651	5/15/2019 7:21 AM

**Table 6 Continued**

Quarterly Operations Survey – Departures (RMT #7 from May 14-16, 2019)

Aircraft Type	SENEL (dB)	Departing To	Flight Number	Date and Time
B738	99.1	PHL	AAL1367	5/16/2019 6:31 AM
B738	99.1	JFK	DAL1236	5/16/2019 7:52 AM
A321	99.0	ATL	DAL1592	5/14/2019 6:31 AM
B739	99.0	ORD	UAL555T	5/16/2019 11:15 AM
B739	98.9	ORD	UAL913	5/15/2019 7:09 AM
A321	98.9	ATL	DAL1592	5/16/2019 6:32 AM
A321	98.8	JFK	JBU90	5/14/2019 8:56 PM
B738	98.8	LIH	ASA115	5/15/2019 9:34 AM
A321	98.8	CLT	AAL2888	5/15/2019 1:39 PM
B739	98.8	DEN	UAL1209	5/16/2019 6:49 AM
A321	98.8	MSP	DAL1864	5/16/2019 6:53 AM
B738	98.8	KOA	ASA185	5/16/2019 8:30 AM
B739	98.8	IAH	UAL2094	5/16/2019 8:40 AM
B739	98.7	EWR	ASA772	5/14/2019 6:58 AM
A321	98.7	ATL	DAL1375	5/15/2019 7:43 AM
A321	98.7	YYZ	ROU1886	5/15/2019 1:15 PM
A321	98.7	DFW	AAL1611	5/16/2019 9:07 AM
B739	98.7	EWR	UAL395	5/16/2019 9:08 PM
A321	98.7	CLT	AAL1889	5/16/2019 10:51 PM
B739	98.6	IAH	UAL2094	5/14/2019 8:43 AM
B738	98.6	BWI	SWA9009	5/16/2019 8:19 AM
A321	98.5	ATL	DAL1592	5/15/2019 6:38 AM
A321	98.5	MSP	DAL1744	5/16/2019 8:10 AM
B738	98.5	JFK	DAL692	5/16/2019 10:09 PM
A321	98.4	BOS	JBU20	5/14/2019 9:20 PM
B739	98.4	EWR	ASA772	5/15/2019 7:00 AM
B739	98.4	EWR	UAL2163	5/15/2019 12:21 PM
B753	98.4	ATL	DAL1636	5/15/2019 10:52 PM
A321	98.4	DFW	AAL1055	5/16/2019 7:12 AM
B738	98.4	EWR	SWA433	5/16/2019 9:24 AM
A321	98.3	BOS	JBU20	5/15/2019 9:16 PM
A321	98.2	CLT	AAL2888	5/14/2019 1:37 PM
A321	98.2	DTW	DAL2628	5/15/2019 7:24 AM
B738	98.2	JFK	AAL2218	5/15/2019 12:27 PM
A321	98.2	BOS	JBU620	5/15/2019 2:49 PM

**Table 7**

Air Carrier Operations Mix by Time of Day and Runway Use (May 14-16, 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	2	0	0	2	0	1	5
A21N	0	0	0	0	0	0	0	1	0	1	0	0	2
A319	0	0	0	0	0	0	6	2	2	6	1	2	19
A320	0	0	0	0	0	0	19	4	2	17	5	2	49
A321	0	0	0	0	0	0	23	6	5	27	2	5	68
A332	0	0	0	0	0	0	0	0	1	1	0	0	2
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	0	0	0	0	0
B737	0	0	0	0	0	0	59	16	11	61	15	10	172
B738	0	0	0	0	0	0	31	15	9	40	5	9	109
B739	0	0	0	0	0	0	11	6	3	15	2	4	41
B744	0	0	0	0	0	0	0	0	0	0	0	0	0
B752	0	0	0	0	0	0	2	0	2	3	1	0	8
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	0	0	0	0	3	0	3	2	3	1	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	0	0	2	0	0	4
CRJ7	0	0	0	0	0	0	1	0	0	1	0	0	2
CRJ9	0	0	0	0	0	0	2	0	1	3	0	0	6
E75L	0	0	0	0	0	0	25	6	5	28	5	3	72
SW4	0	0	0	0	0	0	1	0	0	1	0	0	2
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>196</b>	<b>57</b>	<b>44</b>	<b>217</b>	<b>40</b>	<b>39</b>	<b>593</b>

## **Aircraft Noise Complaints**

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During the 2nd Quarter of 2019, the Airport Noise Office received a total of 80,878 complaints from 240 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 2nd Quarter of 2019, there were a total of 6 curfew violations. The 6 curfew violations recorded during the 2nd Quarter of 2019 reflects a decrease of 1 from the 7 curfew violations recorded during the 2nd Quarter of 2018.

## **Residential Sound Insulation Program**

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Per the requirements of SAN's Variance agreement, the following is an update on the Residential Sound Insulation Program (RSIP), also known as the Quieter Home Program (QHP), the Airport Authority sponsored sound insulation program. 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 2<sup>nd</sup> Quarter 2019, QHP has completed 3,918 homes.

## **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](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 – April 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	66.8	65.2	62.4	64.3	67.7	74.6	68.4	63.6	70.6	63.0	65.3
2	67.7	65.9	63.9	64.7	68.3	74.5	66.8	63.3	71.1	61.3	64.4
3	69.0	66.6	64.8	65.2	68.6	73.9	67.2	63.5	70.4	61.7	65.8
4	68.7	66.7	63.5	65.0	69.4	75.2	65.5	63.8	71.7	62.3	66.5
5	69.3	66.7	66.0	65.6	68.6	75.1	66.4	63.5	71.5	62.7	66.3
6	67.8	64.9	63.3	63.5	67.9	74.3	63.8	62.7	70.7	60.1	65.6
7	67.1	65.5	63.3	64.3	68.9	75.8	65.4	63.3	72.0	60.7	66.5
8	66.5	66.0	62.0	64.7	68.1	74.7	67.3	63.6	71.3	61.8	65.8
9	69.0	66.3	63.8	65.3	68.5	73.7	66.8	63.8	70.5	61.3	65.3
10	68.0	65.7	63.7	64.5	68.2	73.8	66.6	62.8	70.6	60.8	64.8
11	68.8	66.7	62.7	65.2	69.1	74.5	68.4	63.7	70.7	61.8	65.9
12	68.9	66.3	65.5	65.0	68.9	74.9	66.7	63.4	71.2	64.0	65.8
13	65.2	64.3	62.3	63.1	68.1	74.4	67.1	62.7	70.7	60.8	65.8
14	67.0	65.5	62.7	64.3	68.7	75.6	69.2	63.1	71.9	61.1	66.6
15	67.7	66.1	62.8	64.9	69.1	74.3	68.3	64.2	70.7	62.7	65.8
16	69.5	66.7	64.1	65.5	68.8	73.5	66.6	64.0	70.4	62.7	65.9
17	68.0	65.9	63.3	64.9	68.7	75.1	67.0	63.5	71.4	61.8	66.5
18	68.3	66.6	64.2	65.1	68.7	75.5	65.9	63.5	71.9	61.6	65.5
19	68.4	66.0	64.8	65.2	68.6	74.6	66.5	63.4	71.1	61.2	65.8
20	66.7	64.9	62.0	63.2	67.5	73.3	66.5	62.4	69.9	60.4	65.4
21	66.3	65.6	61.0	64.5	68.9	74.6	67.0	63.7	71.0	61.3	66.4
22	68.2	66.3	63.5	64.9	68.9	75.0	66.5	63.9	71.2	62.1	66.6
23	68.2	66.3	62.5	64.8	68.4	74.3	65.9	63.5	70.9	63.6	65.5
24	67.8	65.0	63.9	66.0	68.7	75.4	66.8	62.4	71.6	61.6	65.0
25	69.0	66.6	64.2	65.6	68.6	74.4	66.4	62.8	70.5	59.9	65.1
26	68.8	66.6	64.6	65.3	68.6	74.5	66.8	63.5	70.9	60.7	64.9
27	66.7	64.3	62.1	63.1	67.9	74.3	66.2	62.7	70.4	60.2	65.3
28	67.2	65.7	62.2	65.2	68.7	75.2	67.0	63.5	71.5	61.1	66.4
29	68.2	66.2	61.3	64.6	68.9	75.6	68.1	63.6	71.7	61.6	66.5
30	68.4	66.1	63.7	66.3	68.6	74.5	67.3	63.2	70.7	63.3	66.0
<b>Month</b>	<b>68.5</b>	<b>66.5</b>	<b>64.0</b>	<b>65.4</b>	<b>69.1</b>	<b>75.2</b>	<b>67.4</b>	<b>63.9</b>	<b>71.6</b>	<b>62.3</b>	<b>66.3</b>

## Appendix A2 Continued

### Daily/Monthly CNEL Levels – April 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	63.4	63.6	61.8	66.6	60.1	57.5	65.2	62.9	63.5	61.0	61.9
2	64.4	64.2	64.1	57.1	65.0	60.6	58.3	64.0	63.2	63.9	61.5	63.0
3	64.6	64.3	65.0	60.3	62.6	61.0	58.4	64.2	63.4	64.1	62.8	63.3
4	65.1	64.8	65.0	57.2	61.8	61.6	58.6	64.7	63.9	64.8	62.7	63.5
5	64.8	64.6	65.1	59.2	61.1	61.1	57.7	65.1	63.2	64.4	62.0	63.6
6	64.8	62.9	63.3	56.5	57.2	61.2	58.4	64.4	62.8	63.5	62.4	61.7
7	65.5	63.5	64.1	56.5	62.0	61.3	58.4	64.9	64.3	64.6	62.9	62.2
8	64.3	64.0	64.4	63.2	63.5	60.4	56.8	65.7	63.3	63.9	61.0	63.1
9	64.4	64.6	64.8	63.0	63.7	60.8	58.2	63.9	65.2	63.5	62.1	63.1
10	63.6	64.2	64.2	63.7	63.3	60.9	57.9	63.1	62.9	62.9	61.8	62.9
11	64.5	65.2	64.9	61.8	66.1	60.6	58.0	64.1	63.5	64.4	61.7	63.8
12	64.7	64.4	64.6	58.1	62.0	61.1	58.2	64.3	64.0	64.1	63.0	63.4
13	64.7	62.2	62.6	62.4	62.1	60.4	57.9	64.1	62.9	63.6	61.5	61.1
14	64.9	62.8	64.2	61.2	65.6	61.2	57.9	64.8	63.4	64.9	61.9	62.2
15	64.4	64.2	64.5	61.7	64.3	60.9	57.4	66.1	63.1	64.2	61.1	63.3
16	64.7	64.6	65.1	61.6	63.7	60.7	58.2	64.2	63.3	64.1	61.9	64.0
17	65.3	63.8	64.2	59.0	63.3	61.3	58.2	64.9	63.5	64.9	62.2	63.3
18	64.6	64.4	65.0	58.7	60.4	61.5	57.8	64.1	63.1	63.9	61.8	63.4
19	64.9	63.7	64.2	59.2	60.9	61.0	57.7	64.0	62.7	64.0	61.7	62.8
20	64.8	62.4	63.0	56.7	60.7	60.6	58.2	64.1	62.1	63.3	62.2	61.5
21	64.9	63.6	63.9	59.1	64.2	61.3	58.2	64.9	63.7	64.6	62.1	62.5
22	65.5	64.0	64.7	58.3	63.8	61.2	58.6	66.8	63.3	64.5	62.5	63.2
23	64.4	64.3	64.4	58.0	62.6	60.3	57.5	64.0	62.0	63.6	61.4	63.0
24	65.5	62.8	63.7	61.5	63.6	59.0	57.5	63.1	63.6	63.6	60.4	62.1
25	64.1	64.2	65.0	57.8	62.5	59.3	56.3	63.3	64.9	63.4	60.2	62.9
26	63.6	64.5	64.9	58.2	62.3	60.6	56.2	62.9	63.3	63.3	61.8	63.5
27	64.4	62.0	62.7	57.6	60.8	60.7	57.5	63.6	61.9	63.3	61.5	61.3
28	65.3	63.6	64.1	59.4	64.1	61.4	58.3	64.8	63.3	64.6	62.4	62.7
29	64.7	64.4	64.4	59.9	65.2	61.0	58.9	66.1	63.6	64.6	62.2	63.0
30	64.9	63.8	64.4	61.0	63.8	60.8	58.3	64.5	62.9	64.4	62.4	63.1
<b>Month</b>	<b>65.2</b>	<b>64.4</b>	<b>64.8</b>	<b>60.7</b>	<b>63.8</b>	<b>61.3</b>	<b>58.4</b>	<b>65.1</b>	<b>63.9</b>	<b>64.5</b>	<b>62.4</b>	<b>63.4</b>

## Appendix A3

### Daily/Monthly CNEL Levels – May 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	68.4	66.2	63.6	66.2	68.5	74.3	66.4	63.5	70.8	61.6	66.0
2	68.5	66.8	64.6	65.4	68.9	74.8	64.1	63.7	71.4	61.8	65.9
3	69.1	66.4	66.3	65.2	68.3	74.6	66.8	63.3	71.8	61.4	65.3
4	66.3	64.4	63.1	63.0	67.4	73.5	65.0	62.2	70.1	59.7	64.9
5	67.0	65.8	62.2	64.3	68.6	75.0	66.6	63.5	71.6	61.6	67.1
6	68.5	66.5	63.2	65.1	68.9	74.9	67.3	64.6	71.1	62.5	66.7
7	68.3	66.2	63.7	64.9	68.2	73.3	67.1	65.5	70.0	61.3	65.1
8	68.6	66.6	63.8	65.4	68.8	74.0	65.9	63.5	71.2	61.6	65.8
9	68.8	66.8	63.0	67.0	70.0	75.0	67.3	63.9	71.9	61.6	66.1
10	68.8	66.1	65.2	65.4	68.7	75.5	66.4	63.4	71.8	61.6	67.9
11	66.4	64.1	61.8	62.5	67.7	73.6	63.4	62.4	70.1	60.3	65.2
12	67.1	65.8	61.2	64.3	68.5	75.1	66.6	63.1	71.7	60.7	66.2
13	67.0	65.9	61.6	64.7	68.1	74.4	65.9	63.5	71.3	61.6	65.7
14	68.6	66.5	64.2	65.2	68.2	73.3	65.4	62.6	69.8	60.9	64.9
15	67.8	66.4	62.6	65.1	68.4	73.9	66.5	63.1	70.7	63.5	65.6
16	70.4	67.6	65.4	66.5	69.6	74.7	67.6	64.0	70.9	62.5	66.4
17	69.8	66.8	65.7	65.2	68.5	75.1	69.7	63.4	71.4	63.3	66.3
18	67.1	64.6	61.9	63.1	67.4	74.0	67.4	62.4	70.4	60.3	65.3
19	69.4	66.9	64.1	66.6	69.3	74.9	67.4	64.0	71.4	61.8	66.6
20	69.6	67.0	64.5	65.6	69.1	73.7	67.2	64.0	70.3	62.8	66.2
21	70.9	67.8	64.4	66.3	69.8	73.7	66.9	64.8	70.0	63.1	65.9
22	70.1	67.1	63.9	65.9	69.4	74.1	67.0	64.0	70.5	63.0	66.0
23	69.8	67.1	64.9	66.6	69.0	75.0	68.6	64.0	71.5	62.5	66.9
24	69.8	67.0	65.7	65.6	69.0	75.2	66.4	63.9	71.5	62.5	66.7
25	66.1	64.0	60.9	62.9	67.3	73.9	67.2	62.0	70.3	59.9	65.6
26	68.0	65.2	62.0	63.7	68.2	73.7	66.4	62.8	70.2	60.9	65.5
27	68.3	66.3	63.8	64.7	69.0	73.9	67.2	63.9	70.5	61.4	65.9
28	67.7	66.0	62.1	64.7	68.3	75.2	66.2	63.3	71.6	61.5	66.5
29	67.7	65.9	62.3	64.7	68.2	74.0	66.0	62.9	70.4	61.5	65.8
30	69.2	66.6	63.1	65.7	68.7	74.5	66.6	63.1	70.8	63.4	64.6
31	68.9	66.5	65.0	65.2	68.5	74.6	66.2	63.2	71.2	61.3	65.7
<b>Month</b>	<b>69.1</b>	<b>66.8</b>	<b>64.3</b>	<b>65.7</b>	<b>69.1</b>	<b>74.9</b>	<b>67.3</b>	<b>64.0</b>	<b>71.5</b>	<b>62.3</b>	<b>66.5</b>

## Appendix A3 Continued

### Daily/Monthly CNEL Log – May 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	64.9	63.9	64.8	59.7	59.3	61.1	58.4	64.5	62.8	64.1	62.4	63.7
2	65.2	64.7	65.2	58.0	56.4	61.0	57.7	64.4	62.8	64.2	61.8	63.8
3	63.7	64.2	64.9	57.0	60.3	60.4	56.6	63.2	62.6	64.0	60.8	63.2
4	63.9	62.1	62.6	57.1	59.3	60.1	56.5	62.9	61.4	62.7	60.9	62.2
5	65.2	63.3	64.1	57.0	62.2	61.3	58.3	65.3	64.0	65.2	62.1	62.6
6	65.2	64.3	64.9	60.3	64.1	61.1	58.6	66.0	63.9	64.7	62.0	63.9
7	64.0	63.9	64.5	62.0	62.9	60.1	57.8	63.9	62.3	63.7	61.3	63.1
8	64.6	64.4	64.9	57.9	62.3	61.0	57.9	64.1	62.8	64.1	61.9	63.6
9	65.1	64.7	65.0	60.0	63.9	61.5	58.2	64.3	63.5	64.5	62.0	63.6
10	65.7	64.5	64.8	58.9	63.6	61.1	58.2	64.7	63.1	64.3	62.0	63.1
11	64.2	62.2	62.5	57.0	58.7	60.7	58.1	63.6	61.7	63.1	61.6	61.0
12	65.1	63.8	64.0	56.5	64.0	60.8	57.7	64.3	63.2	64.4	61.8	62.7
13	64.5	63.7	64.3	59.7	63.6	60.4	57.6	65.6	62.5	63.7	61.1	62.7
14	63.9	64.1	64.6	58.5	59.7	61.2	57.1	63.1	62.0	63.2	60.9	63.2
15	64.6	64.4	64.7	60.7	63.3	60.7	57.2	63.7	63.1	64.0	61.4	63.6
16	65.1	65.8	66.0	63.0	64.7	61.0	58.5	64.7	64.5	64.8	62.1	64.5
17	65.1	65.2	65.2	59.4	65.1	61.3	59.9	64.7	64.9	64.4	62.3	63.8
18	64.2	62.8	62.9	57.8	65.0	60.1	57.3	63.6	62.7	63.5	62.0	63.4
19	65.6	64.7	65.3	62.5	64.7	61.6	58.4	64.8	64.0	64.9	62.0	63.6
20	64.3	64.8	65.3	63.6	64.7	61.1	58.5	67.6	64.4	64.5	62.3	64.4
21	64.8	65.7	66.1	63.4	64.2	60.9	58.9	64.3	64.7	64.6	62.3	64.9
22	64.8	65.2	65.4	63.9	64.6	61.0	58.6	64.4	65.1	64.4	62.6	64.2
23	65.1	65.3	65.5	63.3	64.6	61.3	58.6	65.2	71.5	65.6	62.3	64.1
24	65.6	64.6	65.3	59.1	60.1	62.0	58.9	65.1	64.6	65.0	62.8	64.0
25	64.7	62.1	62.2	56.6	66.1	60.4	58.2	63.9	62.2	63.4	61.7	61.1
26	64.4	63.0	63.5	58.5	63.8	60.3	57.7	63.8	62.3	63.6	61.4	61.8
27	64.9	64.1	64.7	60.5	62.8	61.2	58.3	64.3	63.8	64.3	62.2	63.2
28	65.4	64.0	64.3	55.0	60.2	61.5	59.1	68.2	64.1	64.6	62.6	63.1
29	64.7	64.1	64.1	56.0	61.1	60.7	58.1	64.0	63.0	64.0	61.9	63.0
30	63.1	64.6	64.9	59.8	62.8	60.3	54.6	62.0	61.4	62.8	59.6	63.4
31	64.1	64.9	65.0	59.6	63.4	61.1	56.6	63.4	62.6	64.4	61.0	63.3
<b>Month</b>	<b>65.2</b>	<b>64.8</b>	<b>65.2</b>	<b>60.6</b>	<b>63.6</b>	<b>61.4</b>	<b>58.5</b>	<b>65.1</b>	<b>64.5</b>	<b>64.7</b>	<b>62.3</b>	<b>63.9</b>

## Appendix A4

### Daily/Monthly CNEL Levels – June 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	65.5	63.7	59.2	62.1	67.8	73.7	65.0	62.7	70.3	60.8	65.6
2	68.7	66.3	64.1	65.6	68.3	74.4	66.5	63.2	70.9	62.1	66.4
3	68.6	66.2	63.4	65.1	67.9	74.1	65.5	63.4	70.8	61.7	65.8
4	68.3	66.3	62.9	65.2	68.1	73.7	65.5	63.6	70.4	62.0	64.5
5	68.4	65.3	62.8	64.7	68.4	75.3	66.4	62.3	71.2	59.1	63.8
6	68.4	66.4	63.7	65.3	69.0	76.7	67.3	63.0	72.2	60.6	65.2
7	68.5	66.4	63.7	65.0	68.0	75.0	66.1	62.6	71.4	60.4	65.0
8	66.5	65.1	61.0	63.7	68.0	74.4	65.6	62.7	71.1	60.2	64.9
9	66.8	65.9	62.3	65.4	68.6	75.3	66.3	63.4	71.7	61.2	66.3
10	68.0	64.2	65.8	68.4	69.1	76.4	66.2	62.4	73.0	60.1	65.3
11	67.1	65.0	60.5	64.2	68.3	75.7	66.8	62.4	72.2	60.5	65.7
12	67.6	66.1	63.6	67.7	68.6	75.5	67.2	62.2	71.6	61.5	65.1
13	68.7	66.8	63.3	65.6	69.4	74.9	66.5	63.4	71.0	61.7	65.6
14	68.8	66.5	64.3	65.5	68.7	75.1	67.1	63.7	71.2	62.0	66.6
15	67.9	65.7	62.2	64.5	68.5	75.2	66.4	63.7	71.4	66.8	66.2
16	67.6	66.4	62.2	65.1	69.1	75.1	66.6	63.6	71.5	61.5	66.3
17	68.5	66.4	62.9	65.4	69.2	75.5	66.8	64.2	71.8	62.2	66.9
18	68.9	66.8	64.1	65.8	69.0	75.3	67.2	64.1	72.0	62.2	66.3
19	68.7	66.8	64.1	65.9	68.8	75.3	67.6	63.9	71.6	61.7	65.7
20	68.2	66.5	62.6	65.2	69.7	75.2	67.3	63.7	71.7	61.8	66.2
21	69.7	67.4	64.1	66.2	68.8	75.0	67.6	63.8	73.7	62.0	66.1
22	68.2	66.4	64.7	64.9	68.4	74.8	66.1	63.7	71.4	61.6	66.4
23	67.6	65.7	63.8	64.7	68.8	75.2	66.4	63.5	71.2	61.1	65.3
24	68.6	67.0	63.6	65.7	68.8	75.2	66.6	63.8	74.0	61.6	65.0
25	67.5	66.6	63.1	65.8	69.0	74.8	66.6	63.8	72.9	62.0	66.3
26	69.1	67.2	64.6	65.7	68.8	75.1	67.1	63.8	72.2	62.1	66.4
27	68.6	67.1	63.0	65.9	69.1	75.0	66.2	63.8	72.7	61.8	65.6
28	69.4	66.9	65.7	65.8	68.5	75.1	66.6	63.0	74.7	63.7	65.7
29	66.8	65.1	64.0	64.0	68.1	75.3	64.6	62.6	71.0	60.8	65.5
30	66.9	66.0	63.4	65.4	68.6	75.5	66.2	63.2	70.9	60.9	66.0
<b>Month</b>	<b>68.7</b>	<b>66.7</b>	<b>64.0</b>	<b>66.0</b>	<b>69.2</b>	<b>75.6</b>	<b>67.0</b>	<b>63.8</b>	<b>72.4</b>	<b>62.3</b>	<b>66.3</b>

## Appendix A4 Continued

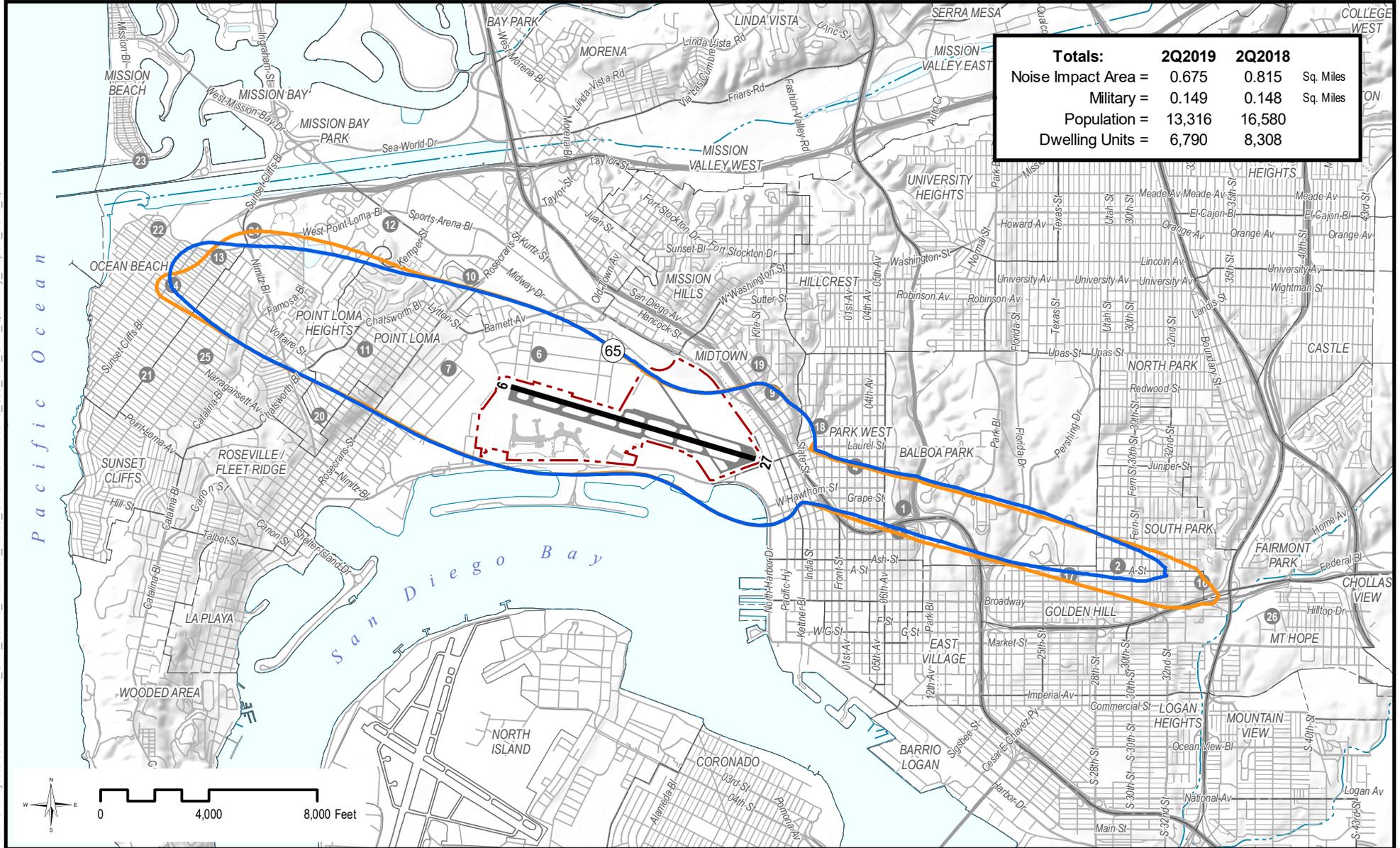
### Daily/Monthly CNEL Log – June 2019

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	64.5	62.0	61.9	57.4	62.6	60.1	57.5	63.8	62.6	63.5	61.5	60.7
2	65.1	64.0	64.8	59.8	62.9	60.7	58.2	64.7	63.7	64.5	61.9	63.2
3	64.5	64.0	64.9	56.5	58.9	61.3	57.1	65.5	62.5	63.8	61.4	63.3
4	63.5	64.3	64.8	57.1	62.3	60.0	55.4	62.4	60.9	62.7	59.9	63.1
5	64.1	63.0	63.9	59.3	63.8	58.4	53.7	61.6	60.1	61.8	58.9	61.3
6	64.2	64.1	64.8	58.2	64.6	60.0	53.9	62.8	61.4	63.4	59.5	62.4
7	63.7	64.3	64.7	58.9	63.2	60.5	55.6	62.8	60.9	63.3	60.5	63.3
8	64.4	62.9	63.3	57.0	63.5	60.3	56.4	63.0	61.9	62.8	60.8	62.2
9	65.3	63.6	64.2	57.3	60.4	61.2	57.3	64.5	63.1	64.6	61.7	62.8
10	66.8	61.9	63.2	62.8	60.8	60.1	56.7	65.7	62.0	63.3	60.5	61.1
11	65.9	63.1	63.4	56.9	64.8	60.1	56.6	63.6	63.2	63.9	67.5	61.9
12	65.2	63.9	64.6	62.6	63.8	59.6	55.9	63.1	61.5	63.8	60.8	62.6
13	64.0	64.7	65.1	59.1	62.2	60.8	56.1	63.4	62.3	64.1	60.9	63.6
14	65.1	64.8	65.1	60.4	64.4	61.3	57.8	64.8	64.8	64.9	61.6	63.9
15	65.2	63.8	64.3	58.1	63.4	61.3	57.6	64.4	63.0	64.3	62.2	62.6
16	64.7	64.6	64.9	58.7	62.8	61.3	56.7	64.1	63.0	64.8	61.3	63.9
17	65.4	64.5	64.9	59.3	63.3	61.9	59.5	65.2	63.8	65.5	62.0	63.8
18	65.2	64.7	65.3	59.9	63.9	62.3	58.5	64.8	63.8	64.7	62.2	64.3
19	64.8	64.8	65.3	60.7	62.3	61.1	57.0	63.8	62.4	64.0	61.9	63.9
20	64.9	64.8	65.0	59.8	64.1	61.3	57.2	64.2	63.0	64.8	62.1	63.6
21	64.9	65.5	66.0	60.0	64.3	61.1	58.5	64.5	63.4	64.6	61.9	64.3
22	65.3	64.1	64.7	57.5	62.2	61.8	59.2	64.8	63.2	64.4	62.7	63.3
23	64.2	63.4	64.3	59.0	61.3	61.0	56.3	63.0	62.1	64.0	61.1	62.6
24	63.5	64.9	65.5	58.0	60.7	60.7	55.4	64.7	61.3	63.3	60.4	63.9
25	64.7	64.6	65.5	58.6	63.3	61.3	57.3	64.0	62.5	64.4	61.8	63.9
26	65.2	64.8	65.8	59.4	62.9	61.4	58.1	64.5	62.9	64.7	62.2	64.1
27	64.1	65.1	65.5	59.1	62.0	61.0	56.3	63.4	62.2	63.9	60.9	64.1
28	65.4	65.0	65.1	57.4	60.0	61.0	56.5	63.9	62.5	64.3	61.1	63.9
29	64.4	63.0	63.7	54.8	56.2	61.5	57.6	63.7	61.5	63.5	61.4	62.0
30	65.2	63.2	64.2	58.8	59.7	61.2	58.0	64.2	62.8	64.2	62.0	62.2
<b>Month</b>	<b>65.3</b>	<b>64.6</b>	<b>65.2</b>	<b>59.6</b>	<b>63.2</b>	<b>61.4</b>	<b>57.6</b>	<b>64.6</b>	<b>63.1</b>	<b>64.6</b>	<b>62.3</b>	<b>63.7</b>

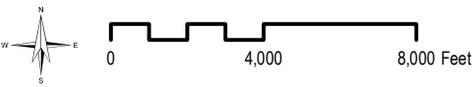
## Appendix B

### ANOMS Commercial Flight Operations Mix – 2nd Quarter 2019

Aircraft Type	Air Canada Rouge	Alaska	Allegiant	American	British Airways	Compass	Delta Air Lines	Edelweiss	Frontier	Hawaiian	Japan	Jazz	jetBlue	Lufthansa	SkyWest	Southwest	Spirit	Sun Country	United	Westjet	Atlas	FedEx	UPS	Total Operations
A20N	0	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	54	0	0	0	0	0	0	430
A21N	0	24	0	0	0	0	0	0	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	207
A319	6	732	148	116	0	0	48	0	100	0	0	0	0	0	0	0	383	0	262	0	0	0	0	1,795
A320	0	1,696	0	192	0	0	530	0	188	0	0	0	146	0	0	0	424	0	933	0	0	0	0	4,109
A321	174	0	0	2,648	0	0	1,916	0	136	0	0	0	703	0	0	0	380	0	0	0	0	0	0	5,957
A332	0	0	0	0	0	0	0	0	0	182	0	0	0	0	0	0	0	0	0	0	0	0	0	182
A333	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
A343	0	0	0	0	0	0	0	10	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	130
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	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
B736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8
B737	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	15,369	0	12	97	54	0	0	0	15,542
B738	0	1,401	0	1,397	0	0	992	0	0	0	0	0	0	0	0	4,649	0	143	1,189	84	0	0	0	9,855
B739	0	1,706	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	2,159	0	0	0	0	4,015
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	0	0	0	112	0	0	395	0	0	0	0	0	0	0	0	0	0	0	275	0	0	135	0	917
B753	0	0	0	0	0	0	358	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	362
B762	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	0	0	130
B763	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	484	204	694
B764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B772	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
B77W	0	0	0	0	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165
B788	0	0	0	0	0	0	0	0	0	0	182	0	0	0	0	0	0	0	0	0	0	0	0	182
CRJ2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	0	376
CRJ7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	0	0	0	0	0	0	0	303
CRJ9	0	0	0	0	0	0	0	0	0	0	0	544	0	0	0	0	0	0	0	0	0	0	0	544
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	954	0	0	0	2,119	0	0	0	0	0	0	0	0	3,379	0	0	0	0	0	0	0	0	6,452
<b>Total</b>	<b>180</b>	<b>6,523</b>	<b>148</b>	<b>4,465</b>	<b>181</b>	<b>2,119</b>	<b>4,445</b>	<b>10</b>	<b>800</b>	<b>365</b>	<b>182</b>	<b>544</b>	<b>849</b>	<b>128</b>	<b>4,058</b>	<b>20,018</b>	<b>1,241</b>	<b>155</b>	<b>4,919</b>	<b>146</b>	<b>130</b>	<b>619</b>	<b>204</b>	<b>52,429</b>
BE99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	154
C208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	418	0	418
SW3/4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	125
<b>Total</b>	<b>180</b>	<b>6,523</b>	<b>148</b>	<b>4,465</b>	<b>181</b>	<b>2,119</b>	<b>4,445</b>	<b>10</b>	<b>800</b>	<b>365</b>	<b>182</b>	<b>544</b>	<b>849</b>	<b>128</b>	<b>4,058</b>	<b>20,018</b>	<b>1,241</b>	<b>155</b>	<b>4,919</b>	<b>146</b>	<b>130</b>	<b>1,037</b>	<b>483</b>	<b>697</b>



Path: G:\Projects\308XXX\308970\_SAN\_Sound\_Insulation\_Noise\_Or-Call\GIS\308970\_003\_001\_SAN\_Quarterly\_Report\_2019\_Q2.mxd



- 2019 2nd Quarter 65 dB CNEL Contour
- 2018 2nd Quarter 65 dB CNEL Contour
- Airport Property
- Runway
- # RMT Site Location
- Roads
- - - River / Stream

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

