

# QUARTERLY NOISE REPORT

For:  
California Department of Transportation

2<sup>nd</sup> Quarter 2018  
April 1– June 30, 2018



**SAN DIEGO**  
INTERNATIONAL AIRPORT

LET'S **GO.**

Airport Noise Mitigation

September 20, 2018



**QUARTERLY NOISE REPORT**  
**For the Period**  
**April 1, 2018 through June 30, 2018**

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 May 8<sup>th</sup>, 2012.

This Quarterly Report for the 2<sup>nd</sup> Quarter of 2018 was prepared by Airport Noise Mitigation at San Diego International Airport, in accordance with the Airport Noise Standards, State of California.

A handwritten signature in blue ink, appearing to read "Brendan Reed", is written over a horizontal line.

Brendan Reed  
Director of Planning & Environmental Affairs

A handwritten signature in black ink, appearing to read "Kimberly Becker", is written over a horizontal line.

Kimberly Becker  
President / CEO

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

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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 = 0.815 sq. miles; Military Noise Impact Area = 0.148 sq. miles**

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2. Estimated number of dwelling units included in the Noise Impact Area as defined in the Noise Standards:  
**11,382\* (QHP Insulated = 3,656)**

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3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards:  
**22,714\* (QHP Insulated = 9,140)**

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4. Identification of the aircraft type having the highest takeoff noise level operating at SDIA, together with the estimated number of operations by this aircraft type during the calendar quarter reporting period:  
**Airbus A340-300: 168**

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5. Total number of aircraft operations during the calendar quarter:  
**57,081**

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6. Number of Air Carrier operations by aircraft certified under Federal Aviation Regulations (FAR) Part 36:  
**51,215**

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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:  
**3,195**

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9. Estimated number of operations by General Aviation aircraft during the calendar quarter:  
**2,475**

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10. Estimated number of operations by Military aircraft during the calendar quarter:  
**196**

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Form DOA 617, 10/89

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

Note: Air Carrier, Air Taxi, General Aviation and Military operations counts provided by the FAA.  
<https://aspm.faa.gov/opsnet/sys/airport.asp>.

## Aircraft Noise Measurements

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Using data generated from the Airport Noise and Operations Monitoring System (ANOMS) and Geographic Information System (GIS), Airport Noise Mitigation 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 between July 1, 2017 to June 30, 2018 to be 0.815 square miles (521.6 acres) and 0.148 square miles (94.7 acres), respectively. As compared to the period between July 1, 2016 to June 30, 2017, the Noise Impact Area increased by 0.052 square miles and the Federal Military Noise Impact Area decreased by 0.043 square miles.

**Table 1**

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

<b>Impact Area</b>	<b>July 1, 2017 to June 30, 2018</b>	<b>July 1, 2016 to June 30, 2017</b>	<b>Change</b>
N.I.A.	0.815	0.763	0.052
M.I.A.	0.148	0.105	0.043

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. This is the second quarter that the latest version of the FAA's Aviation Environmental Design Tool (AEDT) was utilized instead of FAA's Integrated Noise Model (INM), which is no longer supported by the FAA. 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 between July 1, 2017 to June 30, 2018 compared to the period between July 1, 2016 to June 30, 2017 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	70.1	70.5
2	67.2	67.9
3	70.0	70.6
4	65.8	66.4
6	70.0	70.1
7	76.1	76.1
9	69.6	68.7
10	64.2	64.8
11	72.1	72.5
12	63.0	63.4
13	67.7	67.2
14	65.8	66.0
16	65.0	65.9
17	66.1	66.5
18	62.5	61.4
19	63.2	64.4
20	62.1	62.4
21	59.4	59.6
22	64.9	65.5
23	64.7	64.8
24	65.0	65.1
25	61.9	63.7
26*	64.0	64.6

<sup>1</sup> = For the period July 1, 2017 through June 30, 2018

<sup>2</sup> = For the period April 1, 2018 through June 30, 2018

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

Note 2: RMT 26 was off line from November 22, 2018 to June 5, 2018.

## Aircraft Operations

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### Air Traffic Control Tower Operations Counts

The following table contains statistics of aircraft operations based upon the Federal Aviation Administration (FAA) Air Traffic Control Tower (ATCT) counts at San Diego International Airport (SAN).

**Table 3**

### SAN ATCT Counts

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<b>Operations</b>	<b>2nd Quarter 2018</b>	<b>2nd Quarter 2017</b>	<b>Increase / Decrease</b>	<b>Percent Change</b>
Air Carrier	51,215	47,917	3,298	6.88%
Air Taxi	3,195	2,556	639	25.00%
General Aviation	2,475	2,440	35	1.43%
Military	196	186	10	5.38%
<b>Total</b>	<b>57,081</b>	<b>53,099</b>	<b>3,982</b>	<b>7.50%</b>

Data from <http://aspm.faa.gov/opsnet/sys/Airport.asp>

## Quarterly Operations Survey Report

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The Quarterly Operations Survey Report for San Diego International Airport (SDIA) encompasses the 2<sup>nd</sup> Quarter of 2018. The data used to compile this report was gathered during 24-hour periods on May 6-8, 2018.

**Table 4**

### Single Event Noise Exposure Level (SENEL) Comparison

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The average Single Event Noise Exposure Level (SENEL) of the loudest 25% of the 2<sup>nd</sup> Quarter 2018 Operations Survey is as follows:

	<b>May 8-10, 2018</b>	<b>May 9-11, 2017</b>	<b>Change (dB)</b>
Departures	100.5	100.0	0.5
Arrivals	93.8	0.0	-

Note 1: RMT #1 was offline between May 9-11, 2017 due to mechanical, electrical and/or communication issues and therefore there was no arrival data available.



**Table 5****Quarterly Operations Survey - Arrivals (RMT #1 from May 6-8, 2018)**

The Arrivals survey identifies the loudest 25% of the aircraft arriving at SDIA, as measured at Remote Monitoring Terminal (RMT) #1, which is located approximately one (1.0) mile from the arrival end of Runway 27. During the 2<sup>nd</sup> Quarter 2018 Operations Survey, an average of 286 daily air carrier arrival operations were conducted. Therefore, the loudest 25% of these arrivals totaled approximately 72. These commercial service jet aircraft are listed by Aircraft Type, Single Event Noise Exposure Level (SENEL), Airport Origin, Flight Number and Date/Time.

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Arriving From</b>	<b>Flight Number</b>	<b>Date and Time</b>
DC10	100.6	MEM	FDX906	5/6/2018 5:11 PM
B753	96.8	ATL	DAL1692	5/6/2018 9:36 AM
B77W	95.4	LHR	BAW44N	5/7/2018 6:38 PM
B77W	95.2	LHR	BAW44N	5/6/2018 6:28 PM
B752	95.0	OAK	FDX1889	5/8/2018 5:04 AM
B753	94.9	ATL	DAL1692	5/8/2018 9:16 AM
B752	94.8	ATL	DAL1792	5/8/2018 4:53 PM
B753	94.7	ATL	DAL1692	5/7/2018 9:45 AM
B763	94.6	IND	FDX1754	5/8/2018 5:23 AM
B772	94.6	LHR	BAW44N	5/8/2018 6:33 PM
B763	94.4	SDF	UPS922	5/8/2018 5:06 AM
B763	94.3	SDF	UPS2922	5/8/2018 5:23 PM
A343	94.2	FRA	DLH466	5/6/2018 12:55 PM
B752	94.2	AFW	FDX1199	5/8/2018 5:00 AM
B752	94.1	MEM	FDX313	5/6/2018 5:35 PM
B753	94.1	ATL	DAL1792	5/7/2018 5:03 PM
B763	94.1	MEM	FDX1422	5/8/2018 5:25 AM
B738	94.1	TPA	SWA1578	5/8/2018 10:47 AM
B763	94.1	MEM	FDX906	5/8/2018 4:58 PM
B763	94.0	IND	FDX3713	5/8/2018 5:19 PM
B752	93.8	PHX	AAL465	5/8/2018 8:47 AM
A343	93.7	FRA	DLH466	5/7/2018 1:21 PM
B738	93.7	SFO	UAL1123	5/8/2018 9:21 AM
A343	93.7	FRA	DLH466	5/8/2018 12:45 PM
B738	93.7	AUS	SWA274	5/8/2018 9:53 PM
B738	93.7	BOS	ASA769	5/8/2018 10:02 PM
B753	93.6	ATL	DAL1792	5/6/2018 5:16 PM
B738	93.6	STL	SWA5648	5/7/2018 3:29 PM
B738	93.6	PHL	AAL1621	5/8/2018 10:06 AM
B739	93.5	SEA	ASA512	5/6/2018 10:11 AM
A332	93.5	HNL	HAL16	5/6/2018 10:16 PM
B738	93.5	SFO	UAL497	5/7/2018 2:16 PM
B739	93.4	MCO	ASA339	5/6/2018 5:36 PM
MD83	93.4	ELP	AAY420	5/7/2018 12:39 PM
B739	93.4	SEA	ASA514	5/7/2018 12:51 PM
B738	93.4	DEN	SWA846	5/8/2018 11:05 AM
B738	93.3	DAL	SWA2389	5/6/2018 6:54 AM
B752	93.3	PHX	AAL465	5/6/2018 8:38 AM
B752	93.3	DTW	DAL1635	5/6/2018 10:01 PM

Table 5 - Continued

Quarterly Operations Survey - Arrivals

Aircraft Type	SENEL (dB)	Departing To	Flight Number	Date and Time
B738	93.3	MSP	DAL1686	5/6/2018 11:22 PM
B739	93.3	SJD	ASA275	5/7/2018 12:23 PM
B763	93.3	SDF	UPS2922	5/7/2018 5:39 PM
B738	93.3	DFW	AAL295	5/7/2018 9:27 PM
B738	93.3	ORD	AAL2239	5/8/2018 7:08 PM
B738	93.2	ORD	AAL2239	5/6/2018 7:18 PM
B739	93.2	SFO	UAL460	5/6/2018 8:51 PM
B752	93.2	IAD	DAL8895	5/6/2018 9:32 PM
B738	93.2	DEN	UAL2387	5/7/2018 9:46 AM
B739	93.2	SEA	ASA512	5/7/2018 9:57 AM
B738	93.2	ATL	SWA2020	5/7/2018 12:08 PM
B737	93.2	PHX	SWA1860	5/7/2018 12:18 PM
B738	93.2	AUS	SWA274	5/7/2018 9:28 PM
B738	93.2	SMF	SWA1837	5/8/2018 10:17 AM
B737	93.2	RNO	SWA820	5/8/2018 11:28 AM
B762	93.1	PHX	GTI505	5/7/2018 5:50 AM
B738	93.1	LAS	SWA2037	5/7/2018 1:01 PM
B738	93.1	BWI	SWA2021	5/7/2018 3:31 PM
B737	93.0	LAS	SWA4207	5/6/2018 6:49 AM
A321	93.0	DFW	AAL569	5/8/2018 11:34 AM
B752	92.9	JFK	DAL2288	5/6/2018 11:25 AM
B738	92.9	OGG	ASA854	5/6/2018 6:34 PM
B737	92.9	LAS	SWA259	5/7/2018 3:01 PM
B737	92.9	LAS	SWA259	5/8/2018 2:46 PM
B737	92.8	SJC	SWA1689	5/6/2018 3:55 PM
B752	92.8	PHX	AAL465	5/7/2018 8:41 AM
B739	92.8	SLC	DAL2295	5/7/2018 9:11 AM
B752	92.8	DTW	DAL1635	5/7/2018 9:59 PM
B752	92.8	JFK	DAL2288	5/8/2018 11:09 AM
B738	92.8	MDW	SWA1864	5/8/2018 1:43 PM
B738	92.8	BWI	SWA2021	5/8/2018 3:41 PM
B738	92.8	KOA	ASA196	5/8/2018 10:33 PM
B739	92.8	HNL	ASA892	5/8/2018 10:55 PM

Table 6

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 Quarterly Operations Survey - Departures (RMT #7 from May 6-8, 2018)
 

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The Departures survey identifies the loudest 25% of the aircraft departing from SDIA, as measured at Remote Monitoring Terminal (RMT) #7, which is located approximately one-half (0.5) mile from the departure end of Runway 27. During the 2<sup>nd</sup> Quarter 2018 Operations Survey, an average of 283 daily air carrier departure operations were conducted. Therefore, the loudest 25% of these departures totaled approximately 71. These commercial service jet aircraft are listed by Aircraft Type, Single Event Noise Exposure Level (SENEL), Airport Destination, Flight Number and Date/Time.

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Destination</b>	<b>Flight Number</b>	<b>Date and Time</b>
A343	104.8	FRA	DLH467	5/6/2018 4:05 PM
A343	104.6	FRA	DLH467	5/8/2018 3:17 PM
A343	103.7	FRA	DLH467	5/7/2018 3:32 PM
MD83	103.5	ELP	AA421	5/7/2018 1:45 PM
B739	102.5	IAD	UAL546	5/8/2018 8:12 AM
A332	102.1	HNL	HAL15	5/8/2018 11:36 AM
A332	102.0	HNL	HAL15	5/7/2018 10:21 AM
B772	101.4	LHR	BAW72A	5/8/2018 9:00 PM
B739	101.2	IAD	UAL546	5/6/2018 8:17 AM
A321	101.2	CLT	AAL584	5/8/2018 10:47 PM
A321	100.8	PHL	AAL654	5/6/2018 10:48 PM
B739	100.7	EWR	ASA772	5/6/2018 7:27 AM
A332	100.7	HNL	HAL15	5/6/2018 10:37 AM
A321	100.7	CLT	AAL584	5/7/2018 10:45 PM
B738	100.7	OGG	ASA829	5/8/2018 8:03 AM
A321	100.7	CVG	FFT1188	5/8/2018 1:16 PM
A321	100.6	ATL	DAL30	5/8/2018 8:07 AM
B739	100.5	EWR	UAL2388	5/6/2018 6:32 AM
A321	100.5	CLT	AAL871	5/6/2018 8:13 AM
B738	100.5	EWR	UAL2388	5/7/2018 6:36 AM
B739	100.5	IAD	UAL546	5/7/2018 8:19 AM
B739	100.5	MSP	DAL1687	5/8/2018 11:35 AM
B738	100.5	EWR	UAL2163	5/8/2018 12:35 PM
B738	100.4	JFK	DAL2404	5/8/2018 7:48 AM
A321	100.4	CLT	AAL871	5/8/2018 8:02 AM
B738	100.4	ORD	UAL1900	5/8/2018 2:23 PM
A321	100.4	BOS	JBU20	5/8/2018 9:11 PM
A321	100.3	BOS	JBU20	5/6/2018 9:22 PM
B739	100.3	ORD	UAL307	5/7/2018 7:02 AM
A321	100.3	JFK	JBU90	5/8/2018 9:33 PM
A321	100.2	ATL	DAL1592	5/8/2018 6:32 AM
B739	100.2	ORD	UAL307	5/8/2018 7:03 AM
A321	100.2	BOS	JBU2820	5/8/2018 11:39 AM
A321	100.1	JFK	JBU90	5/6/2018 10:01 PM
B738	100.1	BWI	ASA378	5/6/2018 10:33 PM
A321	100.1	PHL	AAL654	5/7/2018 10:42 PM
B738	100.1	HNL	ASA895	5/8/2018 10:56 AM
B739	100.1	MSP	DAL1728	5/8/2018 2:17 PM
A321	100.0	DFW	AAL2330	5/6/2018 6:37 AM

**Table 6 - Continued**

Quarterly Operations Survey - Departures (RMT #7 from May 6-8, 2018)

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Departing To</b>	<b>Flight Number</b>	<b>Date and Time</b>
B739	100.0	IAD	UAL2282	5/6/2018 12:28 PM
A321	100.0	PHL	AAL654	5/8/2018 10:41 PM
A321	99.9	ATL	DAL1592	5/6/2018 6:36 AM
B739	99.9	IAD	UAL1916	5/6/2018 10:07 PM
B738	99.9	JFK	DAL1798	5/6/2018 10:13 PM
B738	99.9	BOS	ASA798	5/8/2018 9:38 AM
A321	99.8	ATL	DAL30	5/6/2018 7:54 AM
B739	99.8	EWR	UAL2163	5/6/2018 12:45 PM
B738	99.8	OGG	ASA829	5/7/2018 7:28 AM
B739	99.8	IAD	UAL2282	5/7/2018 12:28 PM
A321	99.8	BOS	JBU20	5/7/2018 9:10 PM
A321	99.8	JFK	JBU90	5/7/2018 9:42 PM
B739	99.7	ORD	UAL307	5/6/2018 7:03 AM
B738	99.7	HNL	ASA895	5/6/2018 10:45 AM
A321	99.7	YYZ	ROU1886	5/6/2018 12:13 PM
A321	99.7	ATL	DAL30	5/7/2018 8:00 AM
B738	99.7	HNL	ASA895	5/7/2018 10:38 AM
B753	99.7	ATL	DAL1692	5/7/2018 11:15 AM
B77W	99.7	LHR	BAW72A	5/7/2018 9:05 PM
B738	99.6	PHL	AAL1622	5/6/2018 6:42 AM
A321	99.6	JFK	JBU190	5/6/2018 1:15 PM
B738	99.6	PHL	AAL1622	5/7/2018 6:46 AM
B738	99.6	BWI	SWA2013	5/7/2018 7:16 AM
B739	99.6	IAD	UAL1916	5/8/2018 10:12 PM
B738	99.5	BOS	ASA798	5/6/2018 9:37 AM
A321	99.5	CLT	AAL871	5/7/2018 7:33 AM
DC10	99.5	MEM	FDX1222	5/7/2018 7:22 PM
A321	99.5	BOS	JBU620	5/8/2018 2:15 PM
B739	99.4	MSP	DAL1744	5/6/2018 8:23 AM
B739	99.4	ORD	UAL555	5/6/2018 11:18 AM
B738	99.4	JFK	DAL2404	5/7/2018 7:20 AM
A321	99.4	JFK	JBU190	5/7/2018 12:59 PM

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

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The San Diego County Regional Airport Authority recognizes that neighborhoods surrounding San Diego International Airport are affected by noise from aircraft operations. An Airport Noise Advisory Committee (ANAC) (Committee), 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. The Airport Noise Advisory Committee is formally adopted as Airport Authority Policy 9.20.

The information regarding the Airport Noise Advisory Committee (ANAC) can be found on the San Diego County Regional Airport Authority's website: <http://www.SAN.org/Airport-Noise/Initiatives>.

**Table 7****Air Carrier Operations Mix by Time of Day and Runway Use**

The Operations Mix represents an average 569 daily operations. Of this average, there are 286 arrivals and 283 departures.

Aircraft Type	Runway 27						Runway 9						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		
A319	4	0	0	4	0	0	0	0	0	0	0	0	0	8
A320	13	5	3	14	4	3	0	0	0	0	0	0	0	42
A321	20	6	3	21	3	5	0	0	0	0	0	0	0	58
A321N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A332	0	0	1	1	0	0	0	0	0	0	0	0	0	2
A343	1	0	0	1	0	0	0	0	0	0	0	0	0	2
B712	1	1	0	2	0	1	0	0	0	0	0	0	0	5
B737	56	14	11	61	12	6	2	0	0	0	0	0	0	162
B738	35	14	12	42	6	13	1	0	0	0	0	0	0	123
B738M	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B739	15	5	2	18	1	3	0	0	0	0	0	0	0	44
B739M	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B744	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B752	3	1	2	3	1	1	0	0	0	0	0	0	0	11
B753	2	0	0	1	0	1	0	0	0	0	0	0	0	4
B762	0	0	0	1	0	0	0	0	0	0	0	0	0	1
B763	1	0	1	1	2	1	0	0	0	0	0	0	0	6
B77W	1	0	0	0	1	0	0	0	0	0	0	0	0	2
B788	1	0	0	1	0	0	0	0	0	0	0	0	0	2
BE99	1	0	0	1	0	0	0	0	0	0	0	0	0	2
C208	2	0	0	2	0	0	0	0	0	0	0	0	0	4
CRJ2	3	0	0	3	0	0	0	0	0	0	0	0	0	6
CRJ7	2	1	0	2	1	0	0	0	0	0	0	0	0	6
CRJ9	2	0	1	2	0	0	0	0	0	0	0	0	0	5
DH8D	2	0	0	1	1	0	0	0	0	0	0	0	0	4
E75L	23	5	3	26	3	3	1	0	0	0	0	0	0	64
MD90	2	0	0	2	0	0	0	0	0	0	0	0	0	4
SW4	1	0	0	0	1	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>191</b>	<b>52</b>	<b>39</b>	<b>210</b>	<b>36</b>	<b>37</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>569</b>

## Aircraft Noise Complaints

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During the 2<sup>nd</sup> Quarter of 2018, Airport Noise Mitigation received a total of 23,296 complaints from 145 households. Those flights that indicate a possible violation of the Airport Use Regulations, Time of Day Restrictions, are investigated and appropriate enforcement action is taken. There has been an increase in complaints related to the SOCAL Metroplex implementation and the complainant utilization of new technology based reporting methods.

## Enforcement Actions

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The Airport Use Regulations at San Diego International Airport establish Time of Day Restrictions for all operators. Airport Noise Mitigation 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 Mitigation, for the disposition of incidents and imposition of fines.

During the 2<sup>nd</sup> Quarter of 2018, there were a total of 7 curfew violations reflecting a 72-percent decrease from the 25 curfew violations recorded during the 2<sup>nd</sup> Quarter of 2017. The decrease is attributable to ongoing airfield construction which closes the airport to departures during the curfew period.

## Residential Sound Insulation Program

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Per the requirements of San Diego International Airport's Variance agreement, the following table is provided to serve as an update on the Residential Sound Insulation Program (RSIP), also known as the Quieter Home Program (QHP), the Airport sponsored sound insulation program.

**Table 8**

RSIP Units in Program and Units Completed

Program Phase	Units	Units Completed	Percentage Complete
Pilot Phase / 1A	91	91	100.0%
Phase 1 (1B, 1C, 1D)	470	470	100.0%
Phase 2	138	138	100.0%
Phase 3, Groups 1 - 7	201	201	100.0%
Phase 4, Groups 1 - 12	501	501	100.0%
Phase 5, Groups 1 - 12	854	854	100.0%
Phase 6, Groups 1 - 12	451	451	100.0%
Phase 7, Groups 1 - 12	454	454	100.0%
Phase 8, Groups 1 - 12	428	428	100.0%
Phase 9, Groups 1 - 10	614	68	11.1%
Phase 10, Groups 1 - 12	0	0	0.0%
<b>TOTAL UNITS COMPLETED</b>	<b>4,202</b>	<b>3,656</b>	<b>87.0%</b>

## Appendix A

### Airport Noise Monitoring System

## Appendix A1

### Remote Noise 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
26	65*	10	64	12	62*	14

#### 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 2018

\* Not in Service

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	69.8	67.4	64.0	65.5	69.8	76.2	68.6	64.2	72.3	62.4	67.2
2	70.3	67.3	64.8	66.1	69.7	76.5	68.8	64.3	72.8	63.6	67.8
3	70.3	67.6	66.6	66.2	70.0	76.1	68.6	64.7	72.5	64.6	67.7
4	71.5	68.2	69.0	68.1	69.6	75.7	68.0	63.8	71.8	61.7	65.2
5	70.7	67.7	68.0	66.2	69.8	75.9	68.0	63.9	71.8	62.2	66.6
6	70.9	67.7	67.6	66.2	70.0	77.0	69.3	64.7	73.0	63.5	68.0
7	70.1	66.8	66.4	67.1	69.3	75.8	68.5	64.0	72.0	63.0	66.7
8	69.9	67.6	68.2	66.0	69.9	76.8	69.9	64.4	72.9	63.1	67.9
9	69.1	66.8	66.6	65.6	69.8	76.8	69.6	64.1	73.0	63.2	67.0
10	68.6	66.4	66.4	65.3	69.6	75.6	69.4	64.0	71.6	62.9	65.8
11	70.4	67.6	66.8	66.8	70.1	76.4	69.5	64.3	72.5	63.6	67.1
12	71.1	68.2	68.5	66.4	70.6	75.5	69.8	64.8	71.8	63.2	67.1
13	69.6	66.6	70.0	65.5	69.8	76.4	65.4	64.8	72.0	63.3	66.8
14	63.2	63.0	63.7	61.6	67.3	74.1	67.3	61.4	69.2	59.8	63.5
15	69.4	67.3	68.9	65.7	69.5	76.2	68.4	63.8	71.8	62.2	66.3
16	71.4	68.5	68.6	66.8	71.0	74.9	68.8	64.9	71.2	64.6	67.0
17	70.6	67.8	72.6	65.7	69.6	75.2	68.0	64.4	71.5	64.0	66.6
18	70.9	68.1	72.1	66.5	70.3	76.0	71.1	64.7	72.2	63.3	67.3
19	71.7	68.4	72.8	66.6	70.8	76.0	70.1	68.4	72.3	64.7	67.5
20	71.2	68.0	73.0	66.5	70.5	76.6	67.2	65.7	72.7	64.0	67.6
21	69.1	66.0	71.4	64.7	68.3	75.3	66.3	63.1	71.4	62.9	65.7
22	69.5	67.0	71.2	65.8	70.1	77.2	70.1	63.8	73.2	62.5	67.0
23	69.3	67.0	71.3	65.5	69.7	76.4	69.0	63.6	71.8	62.1	65.6
24	69.9	66.8	71.7	65.6	69.9	76.5	68.9	64.0	72.5	63.7	65.8
25	70.8	67.8	72.2	67.7	70.2	76.1	68.6	64.5	72.0	63.4	66.7
26	71.2	68.1	72.6	66.6	70.2	76.1	68.9	64.6	72.3	63.4	67.3
27	71.3	68.1	72.9	66.6	70.1	76.5	68.8	64.8	72.6	63.5	67.9
28	68.7	66.3	70.9	64.7	69.4	75.4	68.4	63.6	71.4	62.1	66.5
29	70.4	67.8	70.8	66.1	70.4	76.4	69.3	64.9	72.3	63.2	67.6
30	70.6	68.0	71.3	66.3	70.5	76.1	69.5	65.1	72.0	63.4	67.4
<b>Month</b>	<b>70.7</b>	<b>67.9</b>	<b>70.6</b>	<b>66.6</b>	<b>70.4</b>	<b>76.6</b>	<b>69.4</b>	<b>65.0</b>	<b>72.6</b>	<b>63.7</b>	<b>67.4</b>

## Appendix A2 Continued

### Daily/Monthly CNEL Levels – April 2018

\* Not in Service

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	65.8	65.6	65.8	58.9	63.9	62.2	59.7	65.1	64.3	60.9	63.3	*
2	66.5	65.9	65.9	60.7	64.3	62.3	60.2	67.6	64.6	62.3	64.0	*
3	66.2	65.4	66.3	59.7	62.8	62.9	60.0	65.7	64.8	61.0	64.1	*
4	64.1	66.3	66.8	61.4	61.4	61.3	59.0	62.8	65.4	59.1	61.5	*
5	65.0	65.3	66.1	59.7	62.9	61.5	58.1	64.6	65.9	60.2	62.3	*
6	66.1	65.7	66.3	60.8	64.7	63.1	59.9	66.1	66.0	62.0	64.0	*
7	66.1	64.4	65.3	63.2	63.1	61.9	59.3	64.8	64.6	60.7	63.5	*
8	66.5	65.3	66.3	62.7	64.9	62.8	60.1	66.1	66.2	62.2	64.1	*
9	65.6	64.9	65.8	63.0	66.3	62.5	59.3	65.0	65.4	61.3	63.2	*
10	65.2	65.0	65.1	64.6	66.3	61.3	57.4	63.8	64.5	59.8	61.8	*
11	66.0	65.4	66.3	63.0	65.6	62.9	59.8	65.0	64.9	64.7	63.3	*
12	65.9	66.3	66.8	63.4	63.9	62.9	60.0	65.4	67.8	65.7	64.5	*
13	67.0	65.6	65.4	60.0	58.2	62.1	59.2	65.0	66.3	65.2	63.3	63.0
14	62.2	61.4	61.7	61.1	65.6	58.3	55.0	61.5	62.8	61.8	59.6	56.8
15	64.1	64.9	65.9	60.7	64.2	61.0	57.8	64.1	64.3	65.0	61.7	63.4
16	65.5	66.2	67.2	64.2	64.3	62.4	60.3	65.1	64.7	65.6	63.9	60.2
17	65.4	66.0	66.5	59.8	65.5	62.5	60.1	64.8	64.6	64.9	63.8	66.9
18	65.7	66.6	66.8	62.4	68.3	62.5	59.9	65.4	64.7	65.8	64.3	66.0
19	66.0	67.1	67.0	63.4	66.6	63.1	60.7	65.8	65.4	66.1	64.6	66.5
20	66.0	66.4	66.7	61.3	62.8	63.2	60.1	65.8	64.9	66.1	64.2	67.1
21	64.6	64.1	64.8	58.0	59.4	61.6	58.5	64.0	63.1	64.0	62.6	64.9
22	65.7	64.8	65.5	62.8	66.7	62.3	58.7	65.0	64.2	65.0	63.3	64.1
23	64.9	64.9	65.6	59.5	64.3	61.0	60.3	63.9	62.3	63.9	62.0	64.4
24	65.5	66.3	65.6	58.9	63.6	61.3	57.5	63.4	62.6	64.4	64.3	65.3
25	65.6	65.3	66.5	61.5	62.3	62.2	59.0	64.6	63.7	65.2	63.4	65.6
26	66.0	65.8	66.8	60.6	63.0	62.6	59.6	65.4	64.5	65.7	63.9	66.3
27	66.3	66.4	66.8	60.6	64.1	62.6	60.2	66.0	65.3	66.4	64.2	66.2
28	65.5	64.2	64.7	58.5	64.5	61.5	59.3	64.8	64.4	64.6	63.2	64.4
29	66.3	66.1	66.2	61.8	64.8	62.4	60.2	65.7	66.8	66.1	64.0	64.4
30	66.0	66.7	66.5	62.8	65.2	62.0	60.0	65.7	65.5	66.4	63.6	64.5
<b>Month</b>	<b>66.2</b>	<b>66.1</b>	<b>66.6</b>	<b>62.1</b>	<b>65.0</b>	<b>62.7</b>	<b>59.9</b>	<b>65.6</b>	<b>65.5</b>	<b>64.7</b>	<b>63.9</b>	<b>63.2</b>

## Appendix A3

### Daily/Monthly CNEL Levels - May 2018

\* Not in Service

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	71.0	67.9	71.9	66.1	70.3	75.7	69.5	65.7	71.9	63.7	67.2
2	71.1	68.1	72.3	66.4	70.2	75.9	69.2	67.7	72.1	63.6	67.1
3	70.9	67.8	73.1	66.5	71.2	75.8	67.6	65.6	72.3	63.6	67.7
4	70.5	67.8	73.0	66.3	69.8	76.3	67.6	64.0	72.8	65.9	67.1
5	68.2	66.2	71.6	64.5	68.7	74.6	65.7	63.3	70.4	60.8	64.5
6	70.1	67.4	71.8	66.3	69.7	76.0	67.5	64.2	71.9	63.1	67.0
7	69.9	67.1	71.5	65.6	69.6	76.2	68.4	65.6	72.5	64.9	67.0
8	70.4	67.3	71.7	66.9	70.0	76.4	68.8	63.8	71.5	61.6	65.5
9	70.2	67.5	71.9	66.2	70.0	*	68.7	64.6	72.6	62.6	67.2
10	71.2	68.1	72.1	66.9	70.3	*	68.7	63.9	72.3	62.1	66.2
11	71.3	68.0	72.0	66.4	70.5	*	70.3	65.9	72.9	63.5	68.0
12	69.0	66.4	71.3	64.5	68.8	*	67.1	63.5	72.0	62.7	67.0
13	70.5	67.6	71.5	66.0	70.0	*	69.3	64.4	71.7	63.4	67.3
14	70.6	67.8	72.6	66.0	70.2	76.3	68.5	64.4	72.1	63.0	67.4
15	71.2	67.9	72.6	66.5	70.1	75.6	67.8	64.7	72.0	64.0	67.2
16	71.5	68.2	72.1	66.7	69.8	75.6	69.0	64.2	72.0	62.9	67.3
17	70.4	68.0	72.0	66.2	70.2	75.1	69.4	64.9	72.7	63.3	67.8
18	70.8	68.1	72.4	66.3	70.5	*	69.2	65.0	72.6	63.6	68.0
19	69.7	67.0	71.3	65.0	69.5	*	67.7	63.2	71.9	63.5	66.6
20	70.2	68.1	71.3	66.3	70.1	*	68.9	64.8	72.9	63.7	67.9
21	70.8	68.0	71.4	66.4	70.3	*	69.2	65.2	72.8	65.2	68.1
22	70.5	67.6	71.6	66.1	70.1	*	69.0	65.1	72.8	63.2	67.7
23	71.1	68.0	72.0	66.8	70.5	*	68.8	65.2	72.5	63.4	67.7
24	71.4	68.4	72.5	67.1	70.1	*	69.4	64.6	72.5	64.4	67.6
25	71.7	68.4	73.2	67.1	70.8	*	69.5	65.1	72.4	64.6	68.2
26	69.6	66.6	70.6	64.9	68.9	*	67.7	63.8	70.8	63.3	66.4
27	69.1	66.5	70.6	64.7	67.8	*	66.9	62.5	70.6	*	65.8
28	70.1	67.5	71.3	66.3	69.4	*	68.0	63.8	72.3	*	66.1
29	70.1	67.9	71.8	66.1	70.0	*	68.7	64.7	72.9	*	66.3
30	70.5	67.8	71.0	66.1	70.2	*	68.5	65.3	72.8	63.9	67.1
31	70.5	67.4	71.3	66.1	70.7	*	68.1	64.1	72.7	62.4	66.8
<b>Month</b>	<b>71.0</b>	<b>68.2</b>	<b>72.4</b>	<b>66.7</b>	<b>70.5</b>	<b>76.3</b>	<b>69.1</b>	<b>65.2</b>	<b>72.7</b>	<b>64.0</b>	<b>67.6</b>

## Appendix A3 Continued

### Daily/Monthly CNEL Log – May 2018

\* Not in Service

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	66.0	66.6	67.0	62.5	65.5	62.3	60.6	65.6	65.1	65.8	65.0	65.0
2	65.5	66.0	66.6	61.1	65.8	62.4	60.0	65.4	64.2	65.5	63.9	66.0
3	66.6	65.6	66.5	60.6	61.7	63.1	60.9	66.0	64.3	66.3	64.7	66.2
4	65.8	65.4	66.5	59.5	60.2	62.5	59.2	65.3	63.9	65.4	63.4	66.5
5	63.9	63.8	65.1	57.8	58.6	61.0	57.1	62.5	62.3	63.3	61.9	65.2
6	65.5	65.0	66.4	60.2	62.4	62.3	59.0	64.5	63.5	65.4	63.8	66.4
7	65.6	65.3	65.6	57.9	63.1	62.4	59.6	64.8	62.9	65.6	63.5	64.7
8	64.1	65.3	65.9	59.5	65.2	60.5	56.9	63.0	62.5	64.4	62.1	64.6
9	65.9	65.5	66.1	61.9	64.5	62.1	59.0	65.2	64.6	65.5	63.3	65.3
10	64.4	66.4	66.7	61.7	64.9	60.9	57.6	64.1	64.7	65.0	61.5	65.2
11	66.4	68.2	66.2	63.7	65.7	62.7	60.0	66.0	65.8	66.4	63.8	65.5
12	65.9	64.8	65.0	58.5	61.9	61.9	59.5	65.0	64.4	65.3	63.4	64.2
13	65.7	65.3	66.2	61.3	63.8	62.4	59.9	65.4	64.5	65.7	63.8	64.8
14	66.6	65.4	66.5	59.6	59.9	62.6	60.3	65.8	65.4	65.7	64.3	65.9
15	66.0	65.6	66.8	60.3	60.6	62.8	60.0	65.6	65.0	65.5	64.2	66.1
16	66.1	65.8	66.8	61.5	63.7	62.4	59.8	65.5	65.6	65.6	63.7	65.8
17	66.4	66.4	66.3	62.0	65.6	62.8	60.7	66.1	65.5	66.3	64.0	64.8
18	66.3	66.4	66.5	60.7	65.1	62.8	60.0	66.0	65.1	66.6	64.2	65.3
19	65.5	64.9	65.4	59.1	62.0	61.7	58.8	64.8	63.7	64.8	62.9	64.5
20	66.4	65.9	66.6	60.4	64.6	62.6	59.8	65.9	65.0	66.4	63.8	64.8
21	66.4	66.4	66.4	62.6	64.4	62.6	60.7	66.5	65.6	66.6	64.2	64.6
22	66.6	65.8	66.3	61.6	64.6	62.7	61.2	65.9	65.0	65.8	64.3	65.0
23	66.9	66.1	66.7	62.2	64.4	62.8	60.4	65.9	65.2	66.0	64.4	65.0
24	66.3	66.1	67.2	61.7	63.8	62.6	60.0	65.9	65.2	65.9	64.1	66.7
25	67.0	66.1	67.2	63.8	62.9	63.3	60.8	66.5	65.5	66.3	64.6	66.8
26	65.0	64.9	65.2	61.1	63.3	61.3	59.0	64.5	63.6	64.7	63.9	64.3
27	64.9	64.2	65.1	58.4	62.2	60.9	58.6	63.9	63.3	63.8	62.5	64.2
28	64.9	65.1	66.2	60.3	62.9	61.9	57.8	63.8	63.2	64.3	62.5	64.8
29	64.9	66.3	66.4	60.0	64.2	62.1	57.1	64.4	62.9	64.8	64.1	65.0
30	66.0	66.2	66.3	60.9	63.9	62.4	59.6	65.6	64.4	65.7	63.6	63.7
31	66.3	65.2	66.2	61.2	63.8	61.8	59.0	64.9	63.9	65.3	64.0	64.8
<b>Month</b>	<b>66.4</b>	<b>66.3</b>	<b>66.8</b>	<b>61.5</b>	<b>64.2</b>	<b>62.8</b>	<b>60.1</b>	<b>65.8</b>	<b>65.0</b>	<b>66.0</b>	<b>64.2</b>	<b>65.8</b>

## Appendix A4

### Daily/Monthly CNEL Levels – June 2018

\* Not in Service

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13
1	70.7	67.8	72.5	66.5	69.7	*	68.1	65.5	72.0	61.9	66.3
2	69.3	66.6	71.3	64.9	68.6	74.5	67.6	63.0	71.2	*	65.8
3	69.8	67.6	71.1	66.2	69.9	75.5	67.6	64.4	72.2	*	67.1
4	70.4	67.9	71.5	66.3	70.1	75.8	67.4	64.0	72.4	*	66.1
5	70.6	68.1	71.4	66.3	69.8	*	68.1	64.5	71.8	*	66.4
6	69.8	71.5	71.3	65.9	69.9	75.4	67.7	64.5	71.9	60.6	66.7
7	70.5	66.7	71.3	66.0	69.5	75.2	68.6	64.1	72.3	62.1	*
8	*	66.4	64.7	68.5	70.1	75.7	*	64.0	72.6	63.4	*
9	*	65.3	62.7	65.6	69.0	75.0	*	62.9	71.5	60.1	*
10	*	66.2	61.3	64.6	69.8	75.9	68.2	64.3	74.1	62.2	*
11	68.7	66.4	62.3	65.4	72.3	75.1	*	64.0	71.2	61.3	*
12	68.7	66.7	63.4	65.3	69.0	75.3	66.9	64.3	71.2	61.7	67.0
13	68.0	66.5	63.6	65.6	*	74.8	67.4	63.9	70.6	61.1	65.1
14	68.2	66.6	62.3	65.3	70.4	74.8	66.6	63.7	70.9	61.4	65.4
15	69.0	67.1	63.9	66.0	*	75.8	67.5	*	72.0	62.2	66.4
16	68.4	66.1	62.7	64.7	*	75.0	66.9	*	71.3	62.5	66.4
17	67.8	66.5	62.9	64.9	69.2	*	67.6	65.6	71.2	62.2	66.9
18	68.5	66.4	64.5	65.0	68.9	74.7	*	63.3	71.0	*	66.5
19	68.6	66.8	64.4	66.4	68.6	*	66.3	63.5	71.2	63.1	66.1
20	69.3	67.0	63.7	65.8	68.6	75.0	67.1	63.6	70.8	61.9	64.5
21	68.9	67.2	64.7	65.8	69.2	75.4	66.9	63.0	71.1	*	64.0
22	68.8	66.5	63.8	*	*	75.4	66.9	63.3	71.6	62.2	65.0
23	68.8	66.4	63.0	65.4	68.6	75.2	67.2	62.8	71.2	60.4	64.8
24	67.2	66.1	61.9	*	68.5	75.6	66.8	63.5	72.0	61.6	66.5
25	68.4	66.6	64.0	65.7	68.4	75.5	67.0	63.2	71.2	62.3	66.1
26	69.6	67.2	64.9	66.2	69.0	75.1	67.3	63.5	71.4	63.2	66.2
27	69.1	66.4	64.6	65.5	68.8	74.8	66.6	63.4	71.1	62.1	65.8
28	69.1	66.9	63.8	65.8	69.3	74.6	66.5	62.8	71.2	61.8	65.8
29	69.4	67.3	64.6	65.8	69.8	75.7	67.9	*	71.9	62.1	66.4
30	68.6	66.6	63.5	64.8	58.6	75.7	67.0	63.3	72.0	62.4	66.5
<b>Month</b>	<b>69.6</b>	<b>67.6</b>	<b>67.6</b>	<b>66.0</b>	<b>69.2</b>	<b>75.3</b>	<b>67.5</b>	<b>64.2</b>	<b>72.2</b>	<b>62.1</b>	<b>66.6</b>

## Appendix A4 Continued

### Daily/Monthly CNEL Log – June 2018

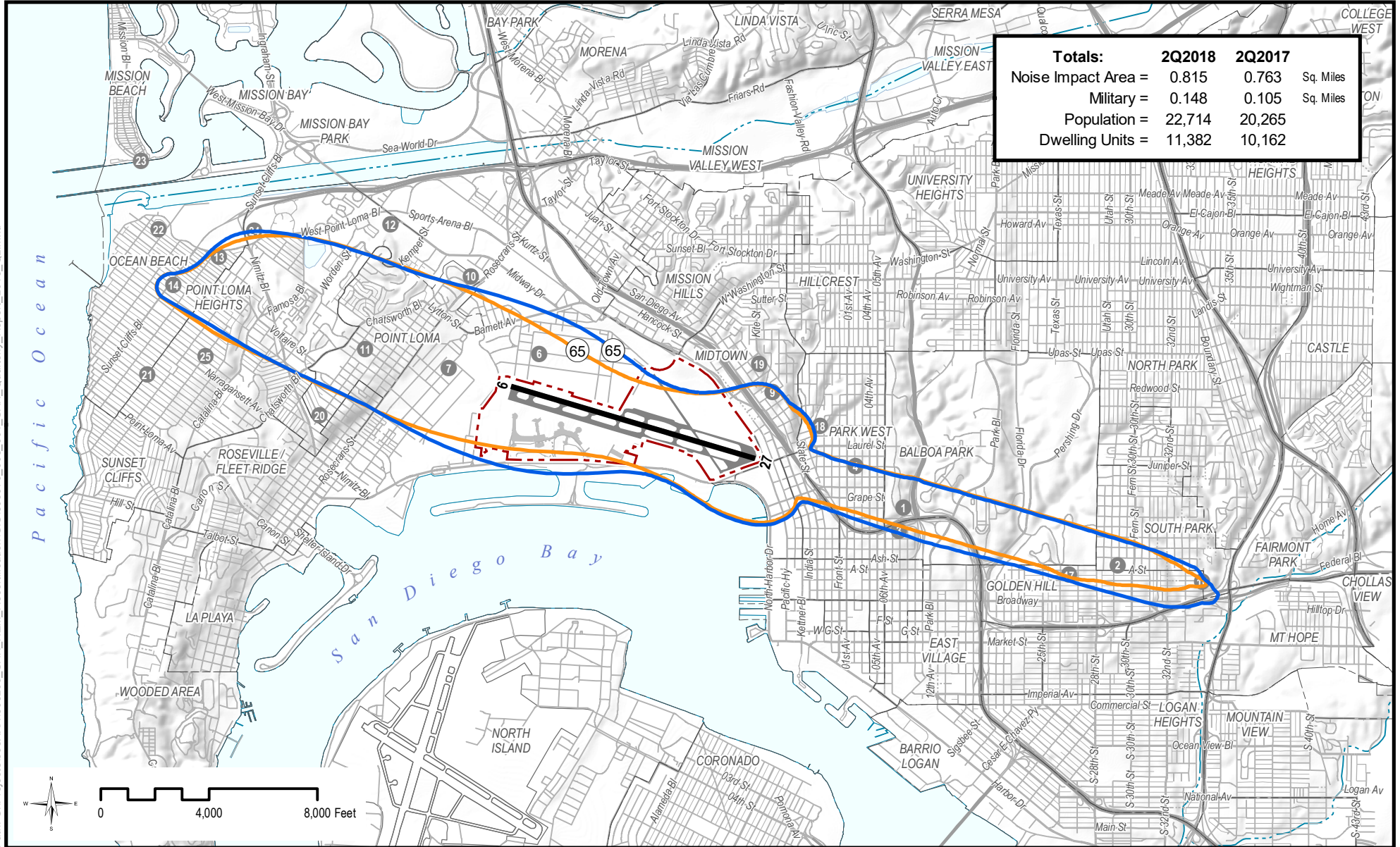
\* Not in Service

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	66.1	65.5	66.6	60.1	62.0	62.0	59.1	64.8	62.9	64.6	63.4	66.2
2	64.6	64.6	65.1	58.5	62.3	60.8	57.8	64.3	62.9	64.1	62.1	65.0
3	65.8	65.3	66.2	60.0	61.8	62.0	59.5	65.1	64.5	65.6	63.6	64.5
4	65.0	65.9	66.4	59.0	62.6	61.3	57.5	64.0	62.7	64.3	62.0	64.8
5	*	66.3	66.5	61.4	63.5	61.1	58.4	64.1	62.9	64.8	62.5	64.5
6	*	64.8	65.8	62.8	63.2	61.9	59.3	65.0	63.5	65.2	63.9	64.3
7	*	66.9	68.1	59.9	63.0	62.0	59.3	65.2	64.0	65.4	63.3	*
8	64.7	64.2	64.9	60.8	62.7	61.7	59.0	65.5	64.4	65.5	62.8	*
9	64.4	63.0	63.7	58.1	62.6	60.4	57.4	63.7	63.4	64.0	61.7	*
10	66.4	63.8	*	59.6	66.7	63.3	59.0	65.3	65.0	65.5	61.7	*
11	66.7	64.0	64.7	58.2	64.3	60.6	58.5	64.9	64.4	65.0	61.6	*
12	63.5	64.3	65.2	57.0	63.5	60.5	58.0	64.2	63.8	64.6	62.3	*
13	64.2	63.8	64.8	58.4	62.2	60.0	*	64.9	64.4	67.7	60.4	*
14	64.0	64.1	64.9	57.9	63.0	60.4	56.7	63.8	63.1	65.2	61.4	55.8
15	65.1	65.0	65.3	59.7	64.5	61.4	57.3	64.4	64.0	65.1	61.5	*
16	65.3	64.1	64.4	61.0	64.4	61.0	58.5	64.5	63.7	64.7	62.0	*
17	65.7	64.0	*	61.4	64.1	61.5	58.8	65.4	64.1	*	62.8	*
18	65.3	63.9	65.0	59.7	60.5	61.4	58.7	67.4	63.8	64.7	62.7	*
19	64.7	64.5	65.4	58.0	60.6	61.1	58.2	64.3	63.2	64.5	62.0	*
20	63.1	64.5	65.2	59.9	64.1	59.9	54.6	62.3	61.5	*	60.1	64.5
21	62.8	64.7	65.6	59.1	63.8	59.4	53.3	62.2	61.1	62.8	59.6	63.6
22	64.0	64.1	64.9	59.3	63.1	60.8	57.4	63.0	62.2	*	61.3	63.3
23	63.9	64.6	64.7	61.2	63.8	59.8	56.4	62.6	62.5	63.3	59.8	62.9
24	65.5	63.8	64.4	59.0	64.4	61.4	58.1	64.8	63.3	*	62.5	63.0
25	65.3	64.1	65.1	58.5	60.4	61.5	58.6	66.4	63.1	64.4	63.2	64.2
26	64.9	64.8	65.8	58.5	60.2	61.4	57.6	64.5	63.0	*	62.0	64.4
27	64.5	63.9	65.0	58.9	61.5	61.1	57.0	64.0	62.8	64.3	61.6	63.6
28	64.2	65.0	66.5	58.7	62.9	60.9	56.9	63.9	63.1	64.3	61.5	64.1
29	65.3	65.7	72.5	60.5	64.7	61.3	57.4	64.7	63.3	*	62.1	64.4
30	65.5	64.4	64.8	59.3	64.4	61.5	58.4	64.8	63.9	64.8	62.7	63.4
<b>Month</b>	<b>65.3</b>	<b>65.2</b>	<b>66.3</b>	<b>60.2</b>	<b>63.8</b>	<b>61.7</b>	<b>58.5</b>	<b>65.1</b>	<b>63.9</b>	<b>64.4</b>	<b>62.6</b>	<b>64.5</b>

## Appendix B

### ANOMS Commercial Flight Operations Mix - 2<sup>nd</sup> Quarter 2018

Aircraft Type	Air Canda/Rouge/Jazz	Alaska	Allegiant	American/Envoy	British Airways	Compass	Delta Air Lines	Edelweiss	Frontier	Hawaiian	Japan	JetBlue	Lufthansa	SkyWest	Southwest	Spirit	Sun Country	United	WestJet	Atlas	FedEx	UPS	Total Operations
A319	4	58	130	56	-	-	4	-	-	-	-	-	-	-	-	183	-	405	-	-	-	-	840
A320	2	1,019	28	2	-	-	300	-	482	-	-	181	-	-	-	627	-	1,460	-	-	-	-	4,101
A321	180	14	-	2,832	-	-	826	-	289	-	-	896	-	-	-	477	-	-	-	-	-	-	5,514
A321N	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	7
A332	-	-	-	-	-	-	-	-	-	182	-	-	4	-	-	-	-	-	-	-	-	-	186
A343	-	-	-	-	-	-	-	44	-	-	-	-	124	-	-	-	-	-	-	-	-	-	168
B712	-	-	-	-	-	-	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	554
B736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4
B737	-	44	-	-	-	-	-	-	-	-	-	-	-	-	14,610	-	70	45	25	-	-	-	14,794
B738	-	1,584	-	745	-	-	717	-	-	-	-	-	-	-	4,862	-	106	1,716	103	-	-	-	9,833
B738M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	-	-	-	-	-	-	-	78
B739	-	2,006	-	-	-	-	725	-	-	-	-	-	-	-	-	-	-	1,674	-	-	-	-	4,405
B739M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	45
B744	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B752	-	-	-	188	-	-	477	-	-	-	-	-	-	-	-	-	-	63	-	-	-	138	866
B753	-	-	-	-	-	-	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298
B762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	-	126
B763	-	-	-	-	-	-	6	-	-	84	-	-	-	-	-	-	-	-	-	4	437	206	737
B772	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
B77W	-	-	-	-	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166
B788	-	-	-	-	-	-	-	-	-	-	182	-	-	-	-	-	-	-	-	-	-	-	182
B789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRJ2	-	-	-	-	-	-	-	-	-	-	-	-	-	472	-	-	-	-	-	-	-	-	472
CRJ7	-	-	-	-	-	-	-	-	-	-	-	-	-	544	-	-	-	-	-	-	-	-	544
CRJ9	482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	482
DC10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	51
E175	-	457	-	4	-	1,948	-	-	-	-	-	-	-	3,602	-	-	-	-	-	-	-	-	6,011
MD11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD83	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
MD88	-	-	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
MD90	-	-	-	-	-	-	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196
<b>Total</b>	<b>668</b>	<b>5,182</b>	<b>182</b>	<b>3,827</b>	<b>182</b>	<b>1,948</b>	<b>4,111</b>	<b>44</b>	<b>771</b>	<b>273</b>	<b>182</b>	<b>1,077</b>	<b>128</b>	<b>4,618</b>	<b>19,550</b>	<b>1,287</b>	<b>176</b>	<b>5,408</b>	<b>132</b>	<b>130</b>	<b>626</b>	<b>206</b>	<b>50,708</b>
BE99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	154	-	-	154
C208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	424	-	424
DH8D	-	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243
SW3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	106
<b>Total</b>	<b>668</b>	<b>5,425</b>	<b>182</b>	<b>3,827</b>	<b>182</b>	<b>1,948</b>	<b>4,111</b>	<b>44</b>	<b>771</b>	<b>273</b>	<b>182</b>	<b>1,077</b>	<b>128</b>	<b>4,618</b>	<b>19,550</b>	<b>1,287</b>	<b>176</b>	<b>5,408</b>	<b>132</b>	<b>284</b>	<b>1,050</b>	<b>312</b>	<b>51,635</b>



Totals:	2Q2018	2Q2017	
Noise Impact Area =	0.815	0.763	Sq. Miles
Military =	0.148	0.105	Sq. Miles
Population =	22,714	20,265	
Dwelling Units =	11,382	10,162	

Path: G:\Projects\308XXX\308200\_SAN\_NEM\_Recertification\GIS\308970\_003\_001\_SAN\_Quarterly\_Report\_2018\_Q2.mxd



- 2018 2nd Quarter 65 dB CNEL Contour
- 2017 2nd Quarter 65 dB CNEL Contour
- Airport Property
- Runway
- # RMT Site Location
- Roads
- - - River / Stream

### Comparison of the 2017 and 2018 Second Quarter 65 dB Community Noise Equivalent Level (CNEL) Contours

2nd Quarterly Contour Produced by the FAA's AEDT

