# Appendix 10 - Noise Contour Results

## **Noise Contour Results**

Populations and households are given to the nearest 100 and based on a 2016 update of the 2011 census.

# Leq 2016

	Current Procedures			Proposed Option		
Contour	Area	Population	Households	Area	Population	Households
Level dB(A)	(Km <sub>2</sub> )			(Km <sub>2</sub> )		
>54	25.6	43,900	18,300	25.9	44,200	18,500
>57	14.5	21,700	9,000	14.6	22,300	9,300
>60	7.8	8,100	3,400	7.8	8,000	3,400
>63	4.1	2,000	900	4.2	2,000	900
>66	2.3	100	<100	2.3	100	<100
>69	1.3	0	0	1.3	0	0
>72	0.8	0	0	0.8	0	0

# Leq 2018

	Current Procedures			Proposed Option		
Contour	Area	Population	Households	Area	Population	Households
Level dB(A)	(Km <sub>2</sub> )			(Km <sub>2</sub> )		
>54	27.6	46,900	19,600	27.9	47,700	19,900
>57	15.8	24,400	10,200	15.9	24,900	10,400
>60	8.5	9,200	3,900	8.6	9,300	4,000
>63	4.6	2,500	1,100	4.6	2,500	1,100
>66	2.6	200	100	2.6	200	100
>69	1.5	0	0	1.5	0	0
>72	0.9	0	0	0.9	0	0

# Leq 2023

	Current Procedures			Proposed Option		
Contour	Area	Population	Households	Area	Population	Households
Level dB(A)	(Km <sub>2</sub> )	-		(Km <sub>2</sub> )		
>54	27.4	46,200	19,200	27.6	45,900	19,200
>57	15.7	24,400	10,100	15.8	24,800	10,300
>60	8.5	8,800	3,800	8.5	9,100	3,900
>63	4.6	2,500	1,100	4.6	2,500	1,100
>66	2.6	200	100	2.6	200	100
>69	1.5	0	0	1.5	0	0
>72	0.9	0	0	0.9	0	0

# **SEL Footprints**

Estimated areas, populations and households within Runway 33 departure SEL footprints for the A321 with EAV321V engines (most frequent type)

Runway 33 SIDs	SEL (dBA)	Area (km2)	Population	Households
Southbound (current)	90	3.3	3,700	1,600
TRENT (current)	90	3.3	3,600	1,500
MOSUN (current)	90	3.3	3,700	1,600
Proposed Southbound	90	3.3	3,700	1,600
Proposed BIMBA (replaces TRENT)	90	3.2	3,300	1,400
Proposed MOSUN	90	3.3	3,600	1,500

Estimated areas, populations and households within Runway 33 departure SEL footprints for A321 with EA321C engines (noisiest type)

Runway 33 SIDs	SEL (dBA)	Area (km2)	Population	Households
Southbound (current)	90	3.9	5,000	2,100
TRENT (current)	90	3.9	5,200	2,300
MOSUN (current)	90	3.9	5,000	2,100
Proposed Southbound	90	3.9	5,100	2,200
Proposed BIMBA (replaces TRENT)	90	3.9	5,100	2,200
Proposed MOSUN	90	3.9	5,100	2,200