



Town and Country Planning Act Section 106/299A

# Environment Report 2

July to December 2021

Farnborough Airport Ltd  
Farnborough  
Hampshire  
GU14 6XA

## 1. INTRODUCTION

- 1.1 In compliance with the requirements of the agreement in place under Sections 106 and 299A of the Town and Country Planning Act 1990 between Farnborough Airport (FAL) and Rushmoor Borough Council (RBC), FAL hereby submits a report for July to December 2020, detailing results of environmental monitoring as required by clauses 1.3, 2.8a, 2.8b and 3.4.

## 2. NOISE MONITORING

- 2.1 Two permanent noise monitoring terminals (NMTs) continuously operate at the sites of Tweseldown Racecourse and Farnborough College of Technology; approximately one mile from the airfield and beneath the typical arrival and departure flight path.

A portable noise monitoring terminal is stored at the Airport and remains available on request to any member of the community that has a requirement for noise monitoring within their residential area.

- 2.2 Correlated Noise data (dB(A)  $L_{eq16}$ ) recorded by the fixed NMTs for “Aircraft”, “Community” and “Total” noise is tabulated in Appendix A.
- 2.3 Tweseldown Racecourse events have the potential to influence values for “community” and “total” noise at the Tweseldown NMT. The following events took place at the racecourse during the reporting period:
- 10-12 July;
  - 9- 10 October

Values for “aircraft” noise remained relatively stable throughout the period of reporting.

- 2.4 All three operational NMTs were subject to calibration by an independent specialist on the 17<sup>th</sup> of March 2021.
- 2.5 Noise contours produced using the FAA’s Integrated Noise Model (INM 7.0d) for operations covering 2020 together with predicted contours for 2021 were submitted to RBC in mid February last year in accordance with the requirements of the Planning Agreement. The results of the modelling exercise undertaken are displayed in Table 1, along with those included within the Planning Agreement (Control Contours). The predicted noise contours were generated using movement data (flight tracks) from the study year, taking in to account the forecast growth for the year ahead (including predicted helicopter movements).
- 2.6 Contours relating to actual movements for January to June last year and predicted contours for July to December last year were supplied to RBC in mid August. Contours relating to actual movements for January to December last year together with predicted contours for the year ahead will be submitted to RBC in mid February this year.

**Table 1: Most recent results of annual INM Noise Assessment**

<b>dB</b> $L_{Aeq,16h}$	<b>Control Contours</b> Predicted 20,000 (km <sup>2</sup> ) movements (1997 mix)	<b>Amended Control Contour Areas</b> (km <sup>2</sup> ) as per clause 12.1a of the S106 (29/10/2010)	<b>Actual Contours Areas</b> 2020 (km <sup>2</sup> ) (15,467 actual movements)	<b>Predicted Contour Areas</b> 2021 (km <sup>2</sup> ) (26,858 predicted movements, 2020 fleet mix)
55	9.07	6.58	1.38	1.87
60	4.03	2.42	0.65	0.83
65	1.70	N/A	0.29	0.38

- 2.7 Use of the dB(A)  $L_{eq16}$  contour is internationally recognised as a means of noise measurement. A 66 dB(A)  $L_{eq16}$  indicates that the average level of noise during a 16-hour day is 66 dB(A).

- 2.8 The 55 dB(A)  $L_{eq16}$  contour, used in agreement with RBC, is below the level in the Aviation Policy Framework (March 2013) which the Government advises that it will continue to treat as the average level of daytime aircraft noise marking the approximate onset of significant community annoyance.
- 2.9 In accordance with the requirements of the Section 106 Agreement, INM 7.0d has been used to produce the noise contours. This version of the software allows helicopter movements to be integrated within the modelling process together with consideration of surrounding terrain.
- 2.10 Daily dB(A)  $L_{eq16}$  figures are provided in Appendix A.

### 3. AIRCRAFT MOVEMENTS

- 3.1 Table 2 displays a summary of aircraft movements for the reporting period by movement category.

**Table 2: Movements summary by type**

Category	Jul	Aug	Sep	Oct	Nov	Dec	Report 2 Total
<b>Business</b>	2581	2753	3415	3267	2778	2304	<b>17098</b>
<b>Helicopter</b>	62	48	100	106	88	51	<b>455</b>
<b>Subtotal</b> (Declared under planning obligations)	<b>2643</b>	<b>2801</b>	<b>3515</b>	<b>3373</b>	<b>2866</b>	<b>2355</b>	<b>17553</b>
<b>Military</b>	6	8	2	3	7	6	<b>32</b>
<b>Flying Club</b>	35	64	44	19	30	4	<b>196</b>
<b>Other</b>	46	41	94	73	98	34	<b>386</b>
<b>ADS</b>	0	0	0	0	0	0	<b>0</b>
<b>Total</b>	<b>2730</b>	<b>2914</b>	<b>3655</b>	<b>3468</b>	<b>3001</b>	<b>2399</b>	<b>18167</b>

- 3.2 Tables 3 and 4 display a summary of movement percentages against the total for each month, by category for weekdays and weekends.

**Table 3: Percentage movement summary by category for weekdays**

	Jul	Aug	Sep	Oct	Nov	Dec
<b>Business</b>	67.1	62.0	68.6	63.9	68.5	69.4
<b>Helicopter</b>	1.9	1.0	1.9	2.5	2.6	1.6
<b>Military</b>	0.2	0.2	0.1	0.1	0.2	0.3
<b>Flying Club</b>	1.2	1.9	1.1	0.4	0.8	0.2
<b>Other</b>	1.5	1.4	2.1	1.8	3.0	1.4
<b>ADS</b>	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>72</b>	<b>67</b>	<b>74</b>	<b>69</b>	<b>75</b>	<b>73</b>

**Table 4: Percentage movement summary by category for weekends**

	Jul	Aug	Sep	Oct	Nov	Dec
<b>Business</b>	27.5	32.4	24.8	30.3	24.1	26.7
<b>Helicopter</b>	0.4	0.6	0.9	0.5	0.3	0.5
<b>Military</b>	0.0	0.1	0.0	0.0	0.1	0.0
<b>Flying Club</b>	0.1	0.3	0.1	0.1	0.2	0.0
<b>Other</b>	0.2	0.0	0.5	0.3	0.3	0.0
<b>ADS</b>	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>28</b>	<b>33</b>	<b>26</b>	<b>31</b>	<b>25</b>	<b>27</b>

- 3.3 Table 5 displays runway use data. Operations are divided into Arrivals and Departures on each runway and helicopter movements without use of the runway (Aerodrome).

**Table 5: Runway in use (as percentages) by mode of operation**

	Apr	May	Jun	Jul	Aug	Sep
06 Arrival	14	22	14	3	6	13
06 Departure	13	20	14	3	6	13
24 Arrival	36	28	35	47	44	36
24 Departure	36	29	35	47	43	36
Aerodrome (Heli)	1	1	2	0	2	1

- 3.4 Maximum Take-Off Weight (MTOW) is recorded for all operating aircraft. Table 6 displays MTOW data for aircraft operated during this reporting period reflected as a percentage of the overall movements in each month.

**Table 6: Percentage of movements by MTOW against the monthly declared total**

	Jul	Aug	Sep	Oct	Nov	Dec
<b>Over 50t</b>	2	2	2	2	3	2
<b>50t or less</b>	98	98	98	98	97	98

- 3.5 All civil aircraft using Farnborough during the reporting period were compliant with the International Civil Aviation Organisation (ICAO) Chapter 4. All aircraft must provide certification of Noise Chapter prior to permission to operate being granted.
- 3.6 Helicopters, light aircraft and turbo-prop aircraft are not subject to the requirements of the ICAO noise certification scheme.

## 4. AIR QUALITY MONITORING

- 4.1 Thirteen nitrogen dioxide tubes and two Streetbox monitors remain as previously reported, details of the locations can be found on reports prior to Q1 2005.
- 4.2 Table 7 displays the standards accepted by the Government and recommended by the expert panel on air quality standards.

**Table 7: Objectives included in regulations for purposes of local Air Quality Management**

Pollutant	Air Quality Objective		Date to be achieved by and maintained thereafter
	Concentration	Measured as	
NO <sub>2</sub>	200µg/m <sup>3</sup> (105ppb) not to be exceeded more than 18 times a year	1 hour mean	1 <sup>st</sup> Jan 2010
NO <sub>2</sub>	40µg/m <sup>3</sup> (21ppb)	annual mean	1 <sup>st</sup> Jan 2010

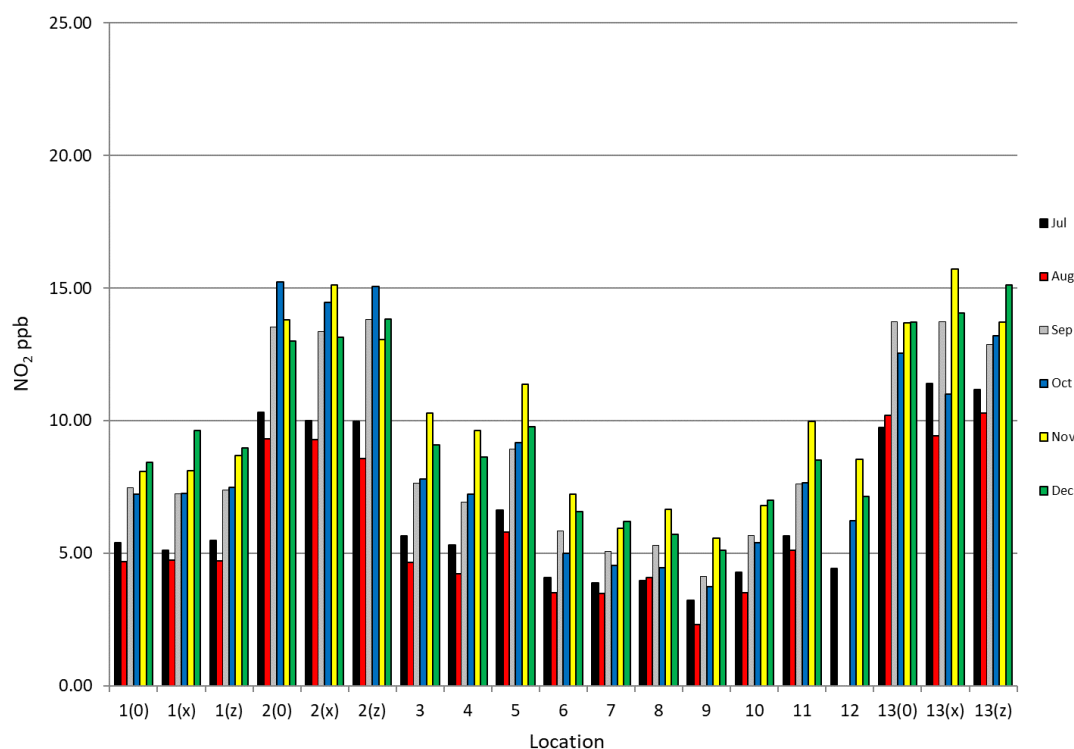
<sup>a</sup> Conversions of ppb and ppm to µg/m<sup>3</sup> and mg/m<sup>3</sup> at 20°C and 1013mb.

ppb = parts per billion µg/m<sup>3</sup> = micrograms per cubic metre.

Source: [https://uk-air.defra.gov.uk/assets/documents/Air\\_Quality\\_Objectives\\_Update.pdf](https://uk-air.defra.gov.uk/assets/documents/Air_Quality_Objectives_Update.pdf)

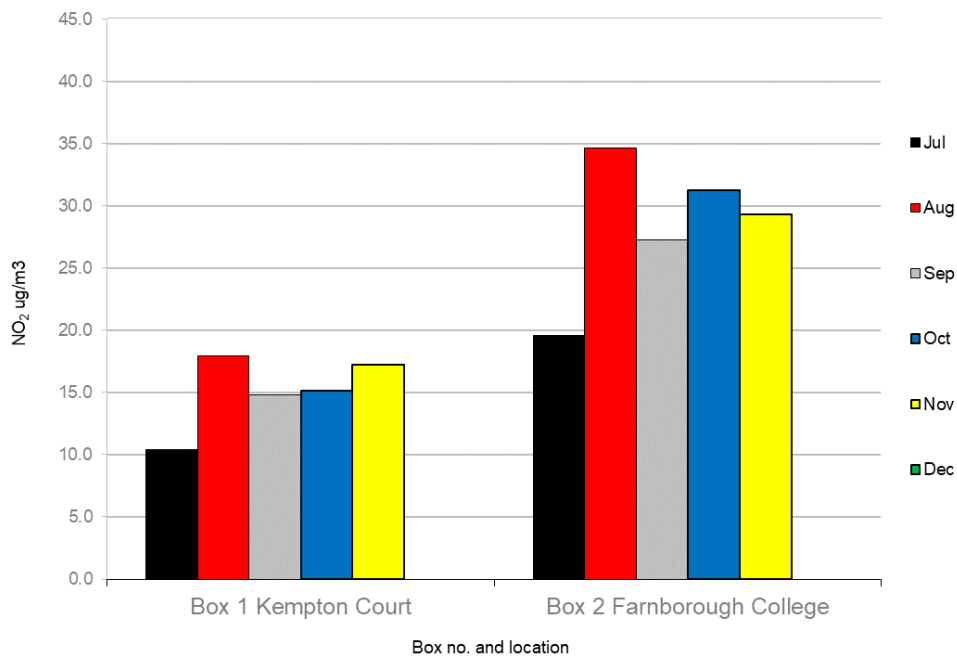
- 4.3 Air quality results consist of raw and manipulated data from diffusion tube laboratory analysis. Raw data from the Learian Streetbox Monitors consists of hourly mean NO<sub>2</sub> concentrations. This data is extensive over a six-month period and so is displayed as a monthly mean.
- 4.4 Passive and active NO<sub>2</sub> monitoring results are detailed in Figures 1 and 2.

**Figure 1: Passive NO<sub>2</sub> monitoring results, (ppb expressed as a monthly mean).**



*N.B. This data has not had a bias adjustment applied*

**Figure 2: Active NO<sub>2</sub> monitoring results, ( $\mu\text{g}/\text{m}^3$  expressed as a monthly mean).**



- 4.5 The results taken from the diffusion tubes indicate that NO<sub>2</sub> levels around the airfield during the reporting period have achieved the stated objectives for UK Air Quality Management.
- 4.6 Continuing trends in the results indicate terrestrial sources of NO<sub>2</sub> as the predominant source. The elevated levels consistently recorded for location 13 adjacent to the M3 motorway illustrate this.
- 4.7 The data for December 2021 has not been included in this report, the devices were unable to have data retrieved off them and could not be ratified in time for this report. The report will be updated upon receipt of ratified data from the servicing contractor in late February or early March 2022.

## 5. CONCLUSION

- 5.1 Routine monitoring of noise, noise abatement compliance, air quality and aircraft movement numbers continues at the Airport. To date, all monitoring practices have been implemented in accordance with the requirements and the Town and Country Planning Act Section 106 Agreement.
- 5.2 All movements operated at the airport remain restricted to those permitted by the terms of the planning consent and the accompanying agreement.
- 5.3 Air quality data continues to indicate terrestrial sources of NO<sub>2</sub> as predominate. Nitrogen dioxide levels remain consistent with long term trends; typically elevated over the colder winter months, due to nitrate release from decomposition.
- 5.4 Activities at the airport remain within the specifications of the Section 106/299A agreement.

Gareth Andrews  
Sustainability Manager  
Farnborough Airport  
[www.farnboroughairport.com](http://www.farnboroughairport.com)

27/01/2021

## **Appendix A**

# Noise Report

## Farnborough Airport

### Total Noise By Day of Month and NMT

Start Date:01-Jul-2021

End Date: 31-Dec-2021

#### July 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	54.3	51.3	52.4	52.6	54.6	58.3	54.9	54.2	53.9	55.7	54.9	53.9	52.7	54.1	55.0	54.2	54.0	53.2	53.4	52.8	52.4	51.9	54.9	54.4	52.9	53.7	54.1	56.0	54.9	62.5	54.3
3	55.3	55.8	56.8	56.8	56.3	57.3	58.7	57.1	58.2	55.8	56.9	60.2	56.1	56.0	55.5	61.4	56.7	54.1	55.9	58.0	61.7	57.3	56.4	55.9	56.0	56.3	57.0	60.0	57.7	59.3	57.1

#### August 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	54.3	53.7	53.1	51.9	60.1	92.9	82.5	54.7	53.5	53.2	66.2	88.1	93.4	52.8	59.8	74.2	52.6	53.9	51.9	53.4	51.3	52.8	54.4	54.2	53.7	55.2	55.2	53.8	54.8	55.9	55.8
3	55.8	57.5	56.3	57.0	57.9	57.7	57.0	58.0	57.9	55.8	55.6	56.4	57.3	56.5	56.6	58.6	58.2	58.6	56.0	58.3	57.2	56.9	57.7	56.2	58.0	57.0	58.0	56.1	56.4	57.2	58.0

#### September 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	55.6	55.6	54.2	54.8	54.3	52.9	70.7	107.0	68.2	61.9	67.8	64.4	63.2	54.8	52.2	53.6	55.0	53.4	53.0	54.2	53.3	53.8	53.9	52.3	51.9	53.9	58.2	55.8	55.8	58.4
3	58.4	58.5	59.0	57.0	58.9	58.8	56.9	57.5	58.0	58.7	56.4	57.5	57.2	58.6	63.0	58.4	58.6	55.9	58.0	57.8	57.2	57.4	59.6	58.1	57.0	57.8	59.8	58.9	58.4	60.4

#### October 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	54.9	55.4	55.9	54.7	58.0	55.2	52.3	53.7	53.1	55.0	53.6	53.6	54.3	54.5	55.1	55.2	53.8	53.1	61.3	56.9	57.9	54.6	54.9	53.2	53.4	53.6	56.2	55.0	57.2	53.7	61.1
3	58.0	57.9	58.9	59.0	58.7	58.2	58.3	57.9	56.8	56.0	58.1	57.1	57.1	58.4	58.5	57.5	57.7	58.2	60.2	59.6	57.1	58.7	57.6	57.3	58.2	58.0	59.3	60.8	58.4	59.7	61.0

#### November 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	55.1	53.3	54.0	54.8	55.7	56.4	55.3	56.4	53.2	54.1	53.8	55.5	52.4	53.7	54.2	54.0	53.8	53.5	52.9	53.5	56.0	55.3	53.3	53.0	54.8	57.0	65.7	53.9	53.8	56.4
3	59.1	57.9	57.0	58.5	59.5	60.6	58.0	57.5	58.0	58.2	58.4	59.1	55.3	57.5	56.6	58.0	57.8	59.1	58.3	56.3	58.0	58.1	57.1	57.1	58.4	59.2	57.6	56.5	58.0	58.1

#### December 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	56.0	53.9	54.6	56.3	57.0	53.9	57.9	59.1	54.4	57.4	53.9	53.3	53.5	53.4	56.2	53.9	56.6	54.5	52.8	53.9	52.1	53.5	53.6	51.2	44.4	48.4	53.4	61.2	56.4	57.7	54.5
3	57.8	56.8	57.6	56.1	55.9	58.6	59.6	58.1	58.6	58.2	57.8	57.7	58.9	60.1	58.4	58.6	58.8	58.7	57.9	56.9	56.8	66.7	57.5	54.2	48.7	48.8	60.5	57.3	56.7	56.3	56.1

# Noise Report

## Farnborough Airport

### Aircraft Noise By Day of Month and NMT

Start Date:01-Jul-2021

End Date: 31-Dec-2021

#### July 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	52.1	47.7	49.3	48.8	50.0	48.8	50.8	51.1	50.9	52.6	51.3	52.5	50.4	51.5	53.6	52.3	52.4	52.2	51.8	50.6	50.2	49.6	51.4	52.4	51.4	51.9	50.3	47.2	50.4	51.9	52.6
3	54.1	54.4	55.7	55.0	54.6	55.2	57.6	56.1	57.1	54.8	55.8	56.4	54.1	54.1	53.3	55.6	56.1	53.1	54.5	55.2	56.3	54.9	54.0	54.7	54.4	54.2	55.2	56.4	56.2	57.5	56.1

#### August 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	52.7	52.0	50.7	48.5	51.5	67.9	50.4	50.0	47.2	49.9	46.6	47.7	59.2	49.2	48.9	51.2	48.2	48.7	47.6	51.1	48.5	49.9	52.7	52.5	52.1	53.6	54.2	52.1	53.7	55.0	54.7
3	54.5	56.5	55.0	55.6	56.4	54.6	55.0	56.7	56.1	53.9	54.0	55.2	55.9	55.5	55.6	56.2	54.5	54.8	54.4	56.9	56.4	55.9	56.9	55.0	57.1	55.8	57.2	55.2	55.5	55.9	56.7

#### September 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	54.4	53.9	52.6	53.8	53.0	50.9	52.8	92.1	51.3	48.9	45.5	50.5	40.4	26.5	22.9	50.6	53.4	51.5	51.1	52.6	50.3	51.3	50.6	48.0	49.9	51.8	50.7	50.3	51.7	49.9
3	57.6	57.7	57.2	56.2	58.5	58.2	55.4	56.2	56.9	57.7	55.3	56.9	55.9	57.6	56.9	57.3	57.5	54.5	57.4	56.5	55.7	55.9	58.4	57.0	56.3	56.8	58.3	56.0	56.7	58.9

#### October 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	50.8	51.0	50.1	50.0	49.8	50.6	49.4	52.0	50.9	52.9	50.4	50.1	50.9	49.9	53.7	54.1	51.9	49.4	51.3	49.8	53.0	51.3	53.5	50.5	49.4	47.4	49.4	51.9	51.1	48.5	52.8
3	56.0	54.7	57.6	57.3	56.6	56.6	57.3	57.1	55.9	55.1	56.7	55.3	55.6	57.0	57.6	56.5	56.6	56.5	57.9	57.5	54.8	57.4	56.6	56.1	56.8	56.6	57.3	58.2	56.2	57.2	59.4

#### November 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	50.9	49.8	50.7	51.9	50.8	50.2	51.4	50.2	49.2	51.0	49.8	50.4	48.9	52.1	51.8	50.9	50.2	49.4	50.2	51.3	53.4	52.6	49.0	49.4	52.2	52.0	52.9	51.8	48.6	47.3
3	57.3	55.2	55.1	56.9	55.9	56.3	56.2	55.2	56.1	57.0	56.9	57.2	53.3	56.6	54.7	56.1	55.9	57.9	57.2	55.0	57.0	56.6	55.1	55.4	57.0	57.3	53.5	55.1	56.3	55.8

#### December 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	49.4	49.8	51.6	46.1	50.8	46.2	50.8	51.5	50.6	50.8	50.1	49.4	49.5	49.1	53.6	52.2	55.5	53.4	51.4	52.1	49.1	49.3	49.2	46.1	0.0	0.0	50.9	51.1	46.4	45.0	46.4
3	55.7	54.4	55.6	52.6	53.2	56.0	55.7	54.7	56.1	55.6	55.9	56.3	56.8	56.5	56.7	57.3	57.5	57.9	57.1	55.5	54.9	55.4	55.7	50.4	0.0	0.0	59.8	54.6	54.2	53.3	49.6

# Noise Report

## Farnborough Airport

### Community Noise By Day of Month and NMT

Start Date:01-Jul-2021

End Date: 31-Dec-2021

#### July 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	50.4	48.8	49.6	50.2	52.9	58.1	52.8	51.3	50.8	52.9	52.5	48.1	48.7	50.6	49.4	49.6	48.7	46.4	48.3	48.7	48.4	48.1	52.4	50.2	47.5	48.9	51.9	55.4	53.1	62.5	49.6
3	48.9	50.1	50.1	52.1	51.5	53.2	51.6	50.3	51.6	49.0	50.1	57.8	51.7	51.3	51.3	60.4	48.0	46.9	49.9	54.7	60.7	53.4	52.7	49.2	50.6	52.2	52.4	57.7	52.4	54.5	50.4

#### August 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	49.1	48.7	49.4	49.2	59.4	92.9	82.5	53.0	52.4	50.4	66.2	88.1	93.4	50.3	59.5	74.2	50.6	52.4	49.9	49.6	48.1	49.7	49.4	49.4	48.4	49.9	48.3	48.9	48.2	48.7	49.1
3	49.6	50.6	50.5	51.3	52.3	54.6	52.6	52.1	53.3	51.3	50.6	50.5	51.4	49.5	49.7	55.0	55.7	56.3	50.7	52.8	49.4	49.5	49.9	49.5	50.5	50.9	49.9	48.9	48.6	51.4	51.8

#### September 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	49.1	50.6	49.0	47.8	48.2	48.5	70.7	107.9	68.4	62.2	68.1	64.7	63.3	54.9	52.3	50.5	49.8	48.8	48.3	49.1	50.3	50.1	51.3	50.3	47.4	49.7	57.7	54.4	53.8	58.1
3	50.4	50.8	54.3	48.8	48.4	49.8	51.4	51.4	51.4	51.7	49.6	48.0	51.5	51.3	61.9	51.5	52.0	50.1	49.0	52.1	51.9	52.2	53.2	51.3	48.6	50.8	54.5	55.8	53.4	55.1

#### October 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	52.6	53.5	54.8	53.0	57.5	53.4	49.3	48.7	49.1	50.8	50.8	51.0	51.7	52.7	49.4	49.0	49.3	50.6	61.2	56.1	56.4	51.9	49.4	50.0	51.3	52.4	55.4	52.2	56.2	52.2	60.7
3	53.6	55.0	52.8	54.2	54.5	53.0	51.4	50.0	49.1	48.7	52.2	52.3	51.9	52.7	51.4	50.4	51.2	53.3	56.3	55.5	53.1	52.7	50.7	51.0	52.6	52.2	54.9	57.6	54.4	56.0	55.9

#### November 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	53.1	50.8	51.4	51.8	54.1	55.3	53.1	55.4	51.0	51.1	51.6	54.0	49.7	48.7	50.4	51.2	51.3	51.4	49.6	49.5	52.6	52.1	51.3	50.5	51.3	55.4	65.7	49.9	52.2	56.0
3	54.2	54.4	52.6	53.5	57.1	58.6	53.3	53.4	53.3	51.9	53.0	54.5	50.9	50.0	51.9	53.5	53.2	53.0	51.7	50.4	51.1	52.6	52.7	52.1	52.7	54.8	55.5	50.7	53.2	54.1

#### December 2021

NMT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	55.2	51.9	51.6	56.0	55.9	53.1	57.2	58.6	52.1	56.6	51.5	51.1	51.4	51.4	52.8	49.0	49.8	48.2	47.1	49.3	49.1	51.4	51.7	49.6	44.4	48.4	49.8	61.1	56.2	57.7	53.8
3	53.7	52.9	53.2	53.4	52.5	55.1	57.4	55.5	55.1	54.6	53.3	52.0	54.5	57.5	53.4	52.8	52.8	50.8	49.2	51.2	52.3	66.4	53.0	51.8	48.7	48.8	52.0	53.8	53.2	53.3	55.1