

## RAF ALCONBURY - BACKGROUND NOISE MONITORING REPORT

REPORT PREPARED BY JOHN F HUNT LTD

<b>Report Reference:</b>	002	<b>Author:</b>	Tom Seath
<b>Report Date:</b>	23.04.24	<b>Authorised by:</b>	Jonathan Cooper
<b>Core Site Working Periods:</b>	Weekdays – 08:00 hrs to 18:00 hrs Saturdays – 08:00 hrs to 13:00 hrs	<b>Monitoring Period:</b>	29.04.24

### Monitoring Locations and Work Area



## Noise Policy and Further Information

Equivalent Continuous Sound Pressure Level, or Leq/LAeq, is the constant noise level that would result in the same total sound energy being produced over a given period. It is the average during the time period. The 1 hour trigger levels are higher than the 10 hour, as if we exceed the 1 hour levels then we will reduce noisy working times or stop works altogether, which will reduce the overall noise average.

British Standard BS 5228-1:2009: 2014 Code of practice for noise and vibration control on construction and open sites – Part 1 Noise, provides guideline levels for assessing the effects of noise on humans.

**Table E.1 Example threshold of significant effect at dwellings**

Assessment category and threshold value period ( $L_{Aeq}$ )	Threshold value, in decibels (dB)		
	Category A <sup>A)</sup>	Category B <sup>B)</sup>	Category C <sup>C)</sup>
Night-time (23.00–07.00)	45	50	55
Evenings and weekends <sup>D)</sup>	55	60	65
Daytime (07.00–19.00) and Saturdays (07.00–13.00)	65	70	75

*NOTE 1 A significant effect has been deemed to occur if the total  $L_{Aeq}$  noise level, including construction, exceeds the threshold level for the Category appropriate to the ambient noise level.*

*NOTE 2 If the ambient noise level exceeds the threshold values given in the table (i.e. the ambient noise level is higher than the above values), then a significant effect is deemed to occur if the total  $L_{Aeq}$  noise level for the period increases by more than 3 dB due to construction activity.*


*NOTE 3 Applied to residential receptors only.*

<sup>A)</sup> Category A: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are less than these values.

<sup>B)</sup> Category B: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are the same as category A values.

<sup>C)</sup> Category C: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are higher than category A values.

<sup>D)</sup> 19.00–23.00 weekdays, 13.00–23.00 Saturdays and 07.00–23.00 Sundays.

Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and Works at Monitoring Site
<p>Monitoring Site 1</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>Measurement 1 – Facing Demolition Works</p> <p>48.6dB</p> <p>Measurement 2 – Facing Building Works</p> <p>61.7dB</p>	<ul style="list-style-type: none"> <li>• Works occurring on site during monitoring.</li> </ul>

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Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and works at Monitoring Site
<p>Monitoring Site A</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>49.1dB</p>	<ul style="list-style-type: none"><li>• Delivery Lorry entering at Location A</li></ul>



Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and works at Monitoring Site
<p>Monitoring Site A</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>53dB</p>	<ul style="list-style-type: none"> <li>• Delivery Lorry entering at Location A – Vehicle Reversing</li> </ul>

Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and works at Monitoring Site
<p>Monitoring Site A</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>43.51B</p>	<ul style="list-style-type: none"> <li>Hammering occurring on site during monitoring.</li> </ul>

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Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and works at Monitoring Site
<p>Monitoring Site A</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>45.2B</p>	<ul style="list-style-type: none"><li>• Normal Background Noise</li></ul>

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Monitoring Site	Pictures of Monitoring Site	Results of Noise Monitoring	Contributing Factors and works at Monitoring Site
<p>Monitoring Site C</p> <p>5 Minute Recording</p> <p>08/05/24</p>		<p>79.6B</p>	<ul style="list-style-type: none"><li>• Hammer in Operation</li></ul>