



Post Completion Noise Survey

Reference: C260230-1

Project: One Horton Heath - Parcel 1

Client: Wates Construction Limited.

Date: 26 March 2026



Air Leakage Testing Ltd
7 Lawson Way
Aylesbury
HP18 0UW

01799 540220
info@airleakagetesting.co.uk
www.airleakagetesting.co.uk



Post Completion Noise Survey Report

1 Survey Details

Survey Date:	26 March 2026
Survey By:	Tom Gregory
Report Prepared For:	Wates Construction Limited. 1st Floor Unit 8 Elmwood Chineham Business Park Basingstoke RG24 8WG
Prepared By:	Tom Gregory
Prepared On:	30 March 2026

2 Introduction

This environmental noise monitoring survey was undertaken at:

Project Name: One Horton Heath - Parcel 1

Project Address: Lower Acre
Eastleigh
SO30 2PA

Description:

Measuring equipment was set up in 2 of the first properties to be completed on site, adjacent to Burnetts Lane.

Plot 4
&
Plot 7

Shown on the below segment of the site plan:



Construction work was ongoing adjacent to these plots.

Purpose:

The purpose of this noise survey was to confirm whether indoor ambient noise levels were in line with recommended noise levels in BS233: 2014.

Background noise levels – external sources (Section 2.13.4 of BS 8233:2014)

Period	Noise Level
Daytime (07:00 – 23:00 hrs) – bedrooms and living rooms	35 dB $L_{Aeq, 16\text{hour}}$
Night-time (23:00 – 07:00 hrs) – bedrooms and living rooms	30 dB $L_{Aeq, 8\text{hour}}$ 45 dB $L_{Amax,F}$

3 Description of Sound Sources

3.1. External

The most significant external noise sources were traffic noise from the road and on-going construction works associated with the site where the survey was taking place.



A brief noise measurement was taken mid-morning on a weekday ahead of the survey which suggested that the external sound pressure levels were varying between 45 and 60dB in front of the properties depending upon the volume/type of road traffic and/or construction noise.

An environmental noise impact assessment was conducted by Ian Sharland Ltd on 25 August 2021: 'ENVIRONMENTAL NOISE ASSESSMENT TO DISCHARGE CONDITIONS 30 & 31. APPLICATION REF: F/20/89500'.

The metrological conditions for the post-completion survey were generally fine with occasional heavy showers and stronger winds.

3.2. Internal

The most significant internal noise sources were building services (i.e. mechanical ventilation and heating systems). The ventilation system was mechanical ventilation with heat recovery (MVHR) with supply or extract vents in every room. Site confirmed that these systems were operating as they would when the properties will be occupied.

Photos overleaf:



4 Measurements

The measurement approach and contents of this report are based on the guidance provided in the Association of Noise Consultants Guidance on measuring noise levels in buildings (June 2020 Version 1.0).

4.1. Date

Measurements were undertaken in the following 2 locations and time periods:

- **Location1: Plot 4** - between 23:00 hrs on Thursday 26 March 2026 and 23:00 hrs on Friday 27 March 2026
- **Location 2: Plot 7** - between 23:00 hrs on Saturday 28 March 2026 and 23:00 hrs on Sunday 29 March 2026

4.2. Noise surveyor

Measurements were undertaken by Tom Gregory.

4.3. Type

Equivalent continuous A-weighted pressure level ($L_{Aeq,T}$) measurements were logged in decibels every 5 minutes for the period of the survey.

All measurements were Fast Response (F).

Signal recordings were made throughout the period of the survey.

4.4. Equipment & Calibration

Measurements were taken using 2No. sound level meters complying with BS EN 61672-1: 2013:

Sound Level Meter 1

Type of equipment	Make & Model	Serial Number	Calibration Date
Sound level analyser	Brüel & Kjær 2250	2435919	20 November 2025
Microphone	Brüel & Kjær 4189	1837044	19 November 2025
Preamplifier	Brüel & Kjær AC 0032	04060	20 November 2025
Calibrator	Brüel & Kjær 4231	2309803	9 January 2026

Sound Level Meter 2

Type of equipment	Make & Model	Serial Number	Calibration Date
Sound level analyser	Brüel & Kjær 2250	2449831	3 December 2025
Microphone	Brüel & Kjær 4189	2519772	19 November 2025
Preamplifier	Brüel & Kjær AC 0032	17002	3 December 2025

Calibration certificates for the above equipment are available on request.

4.5. Positions

2No. Measurement positions were selected based on the most sensitive noise receptor locations for early completions.

Plot 4

Upstairs bedroom overlooking the road



The rooms were fully decorated and carpeted but unfurnished.

The mechanical ventilation was operating.

The windows were closed.

A fixed measurement position was used, the sound level meter was mounted on a tripod approximately 1.5m above the ground and more than 1m away from building services.

Plot 7

Upstairs bedroom overlooking the road



The rooms were not fully decorated and no flooring had been laid.

The mechanical ventilation was operating.

The windows were closed.

A fixed measurement position was used, the sound level meter was mounted on a tripod approximately 1.5m above the ground and more than 1m away from building services.

5 Results

Location 1 – Plot 4 (Bedroom)

Background noise level – external sources / indoor ambient noise level (building services on, windows closed)

Period	Specified Noise Level	Measured Noise Level
Daytime (07:00 - 23:00 hrs)	$\leq 35 \text{ dB } L_{Aeq, 16\text{hour}}$	25.6 dB $L_{Aeq, 16\text{hour}}$
Night-time (23:00 – 07:00 hrs)	$\leq 30 \text{ dB } L_{Aeq, 8\text{hour}}$ $\leq 45 \text{ dB } L_{AFmax}$	21.8 dB $L_{Aeq, 8\text{hour}}$ 40.6 dB $L_{Amax, F}$

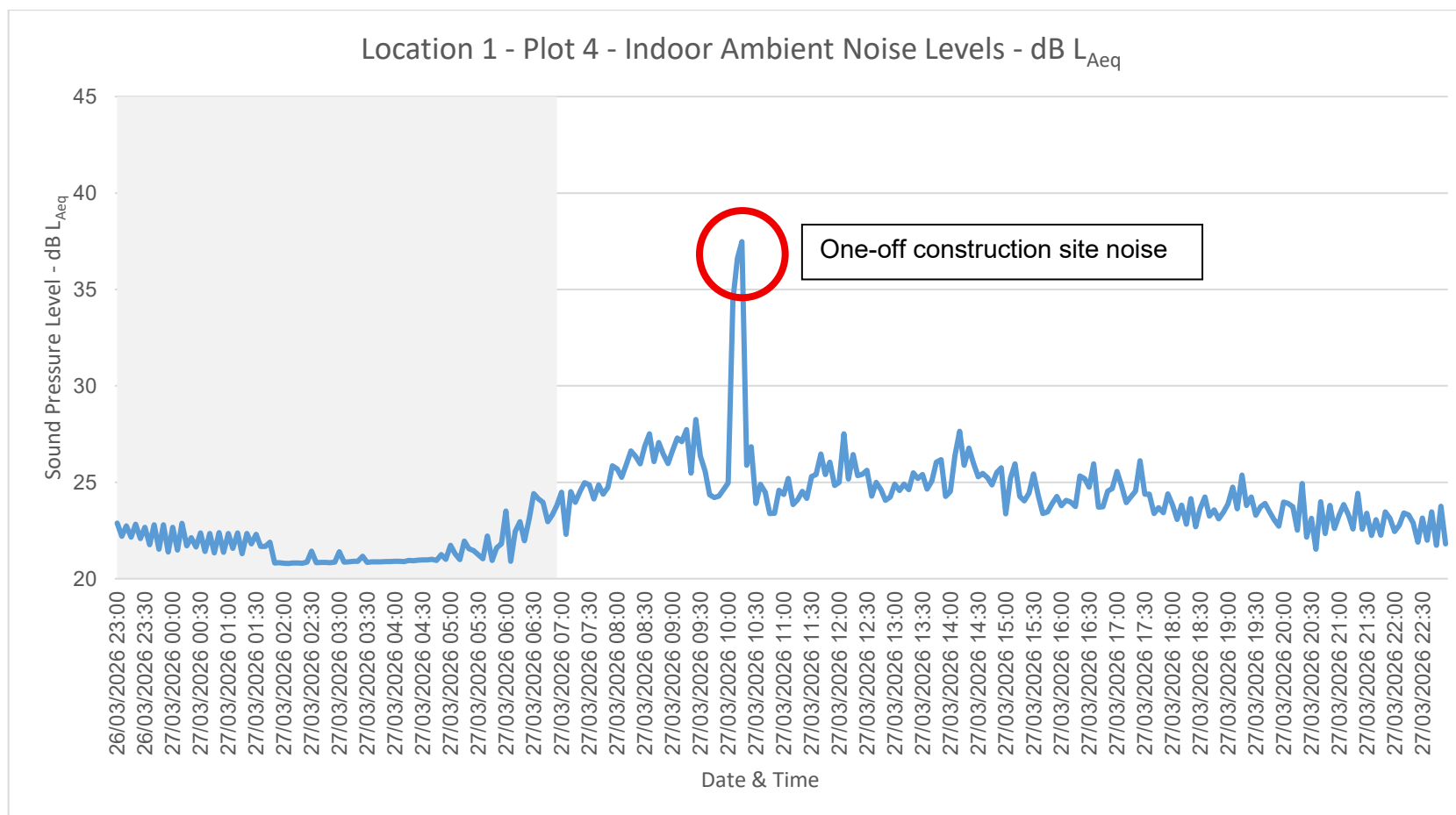
Location 2 – Plot 7 (Bedroom)

Background noise level – external sources / indoor ambient noise level (building services on, windows closed)

Period	Specified Noise Level	Measured Noise Level
Daytime (07:00 - 23:00 hrs)	$\leq 35 \text{ dB } L_{Aeq, 16\text{hour}}$	29.3 dB $L_{Aeq, 16\text{hour}}$
Night-time (23:00 – 07:00 hrs)	$\leq 30 \text{ dB } L_{Aeq, 8\text{hour}}$ $\leq 45 \text{ dB } L_{AFmax}$	27.1 dB $L_{Aeq, 8\text{hour}}$ 41.0 dB $L_{Amax, F}$

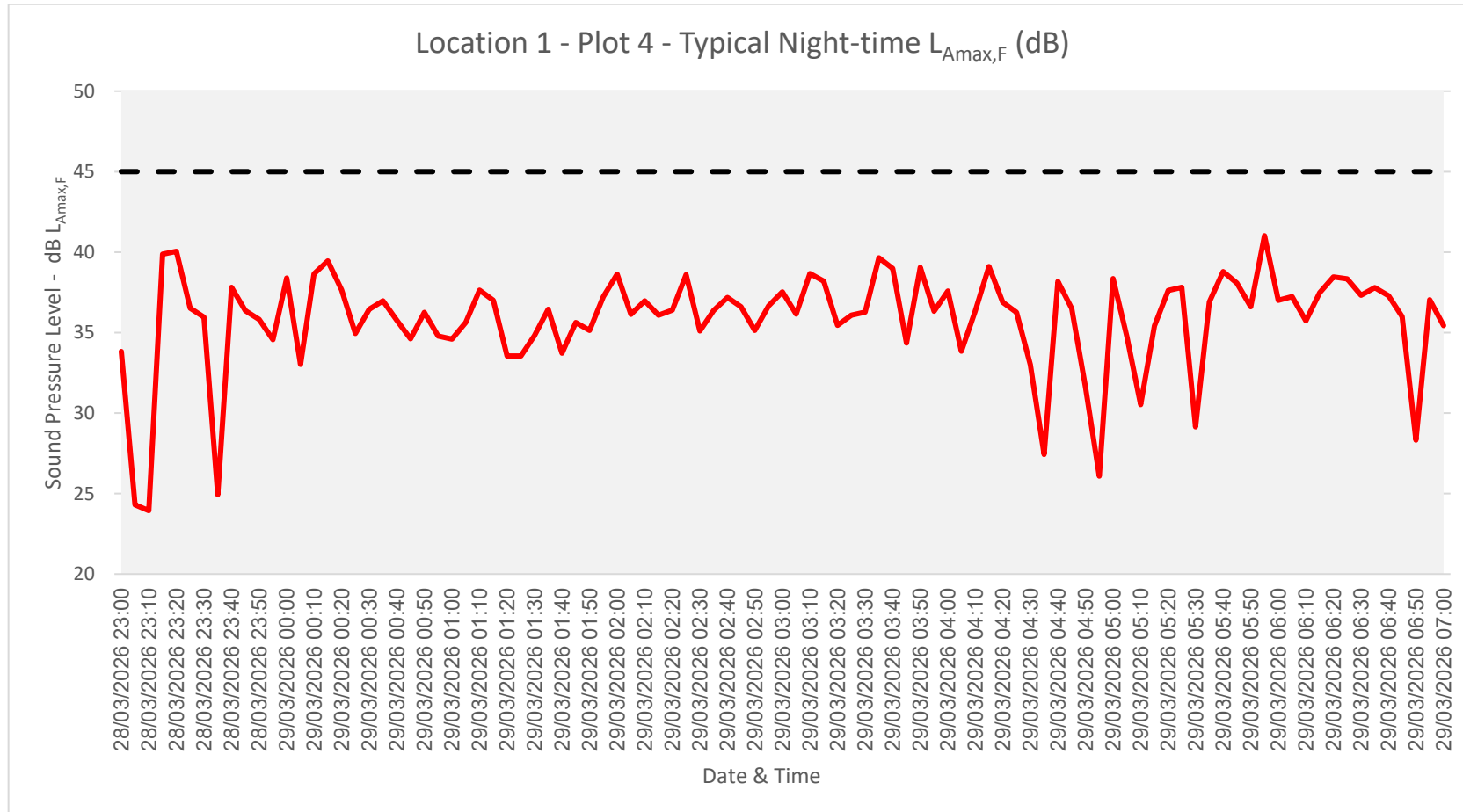
5.1. Plots of $L_{Aeq,T}$ Indoor Ambient Noise Levels

Graph 1: Location 1 – Plot 4 – $L_{Aeq, 5mins}$ (Daytime & Night-time)



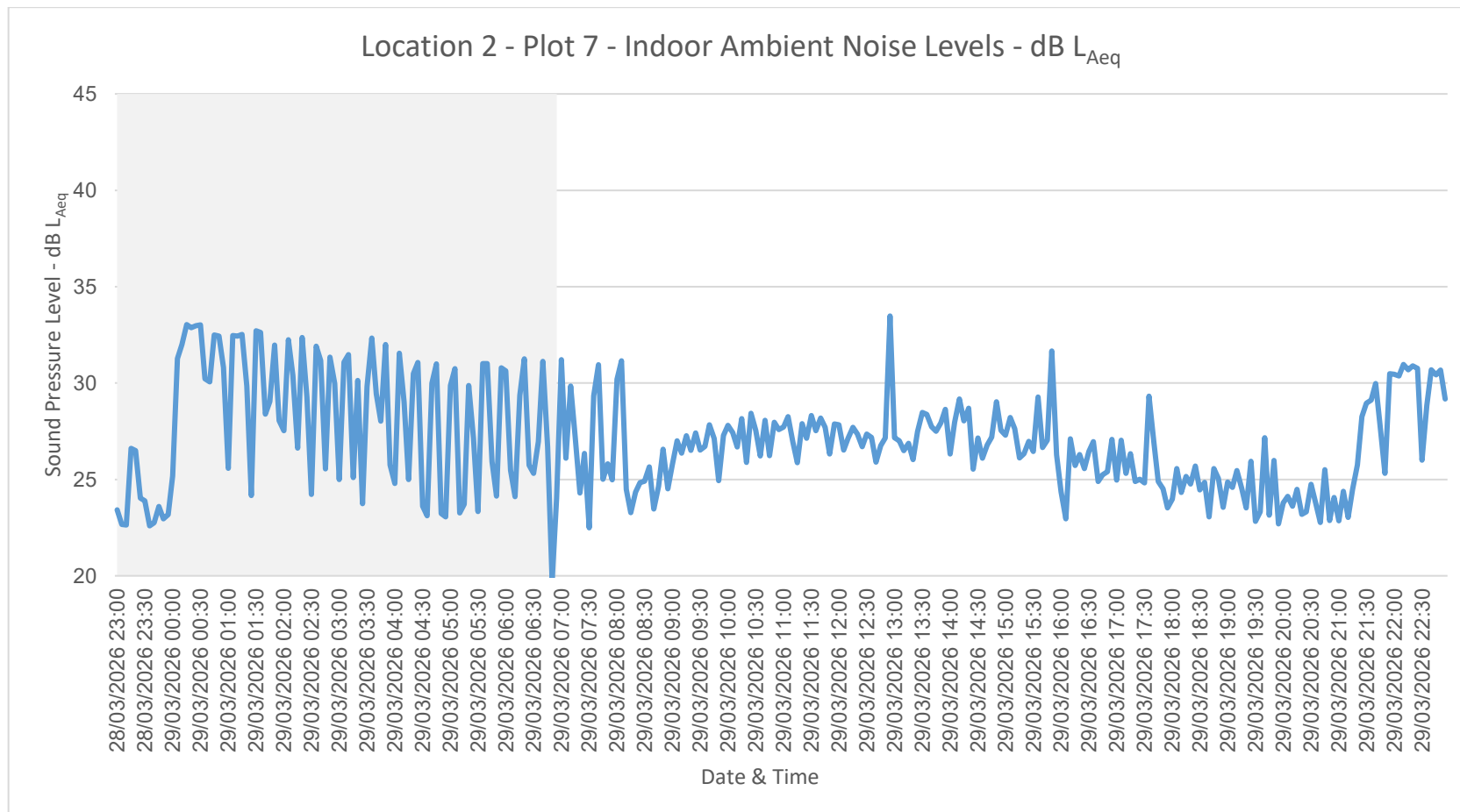
5.2. Plots of L_{Amax} Indoor Ambient Noise Levels

Graph 2: Location 1 – Plot 4 - $L_{Amax,F}$ (Night-time)



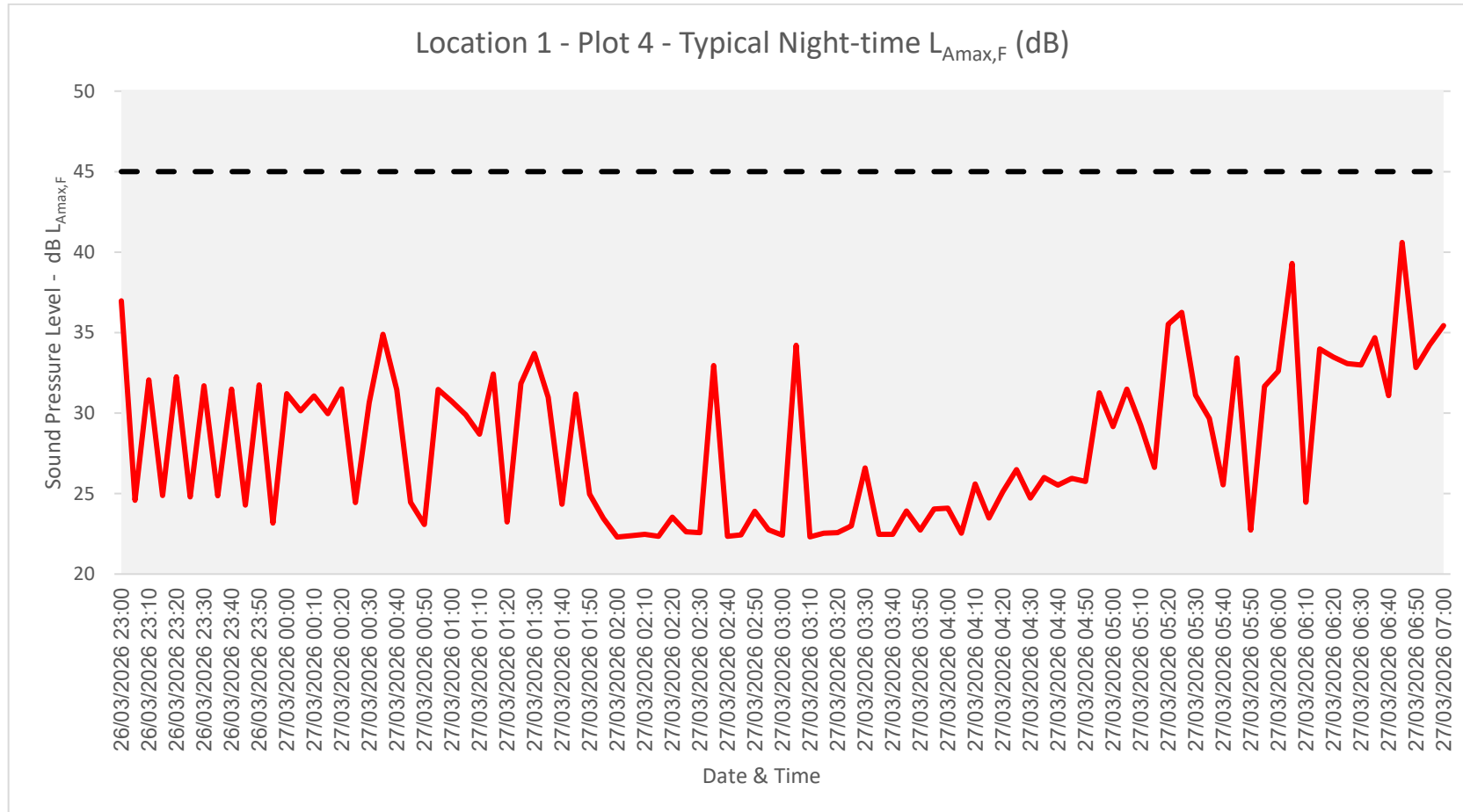
5.3. Plots of $L_{Aeq,T}$ Indoor Ambient Noise Levels

Graph 1: Location 2 – Plot 7 – $L_{Aeq, 5mins}$ (Daytime & Night-time)



5.4. Plots of L_{Amax} Indoor Ambient Noise Levels

Graph 2: Location 2 – Plot 7 - $L_{Amax,F}$ (Night-time)



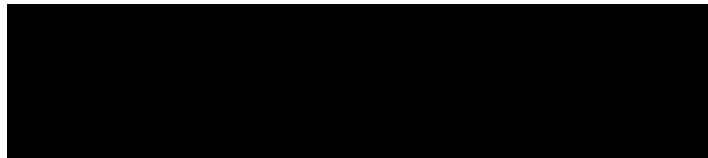
6 Summary

The indoor ambient noise levels for daytime (dB $L_{Aeq,16hours}$) and night-time (dB $L_{Aeq,8hours}$) were below the maximum sound pressure levels (as recommended in BS 8233: 2014) in both measurement locations.

The maximum indoor ambient noise levels (dB L_{AFmax}) were also below the recommended maximum sound pressure levels (as recommended in BS 8233: 2014) in both measurement locations.

Report Prepared by Tom Gregory

Signature:

A large black rectangular box redacting the signature of Tom Gregory.

Date: 30 March 2026