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Noise Validation Testing

**61-63 Moor Lane, Gomersal, BD19
4LF**

For: EJPP Developments Ltd

27th June 2025

Ref: NVT-12126-25-12396-v1 (Final).docx

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1 Introduction

1.1 Overview

Environmental Noise Solutions Limited (ENS) has been commissioned by EJPP Developments Ltd to carry out a noise validation test for 61-63 Moor Lane, Gomersal, BD19 4LF (hereafter referred to as the subject site).

Planning Permission (ref: 2022/62/93344/E for the development was granted by Kirklees Council in July 2023, subject to conditions. Of relevance to this report, Planning Condition 8 relates to the control of noise as follows:

8. Before the development is first brought into use all works which form part of the sound attenuation scheme as specified in the Noise Impact Assessment authored by Environmental Noise Solutions Ltd dated 29 September 2022 Ref NIA/10487/22/10723/v1/Moor Lane, Gomersal: a) shall be completed; and b) written evidence to demonstrate that the specified noise levels have been achieved shall be submitted to and approved in writing by the Local Planning Authority. If it cannot be demonstrated that the noise levels specified in the aforementioned Noise Report have been achieved, then a further scheme shall be submitted for approval of the Local Planning Authority incorporating further measures to achieve those noise levels. All works comprised within those further measures shall be completed and written evidence to demonstrate that the aforementioned noise levels have been achieved shall be submitted to and approved in writing by the Local Planning Authority before the development is first brought into use. Reason: To protect the amenity of occupiers of the proposed development from noise or disturbance from nearby noise generating premises to accord with the aims of Policies LP24 and LP52 of the Kirklees Local Plan and Chapters 12 and 15 of the National Planning Policy Framework.'

This report has been prepared to assist in the discharge of Planning Condition 8 of Planning Permission 2022/62/93344/E for the development. It details the methodology and results of the noise validation testing.

This report has been prepared for EJPP Developments Ltd for the sole purpose described above and no extended duty of care to any third party is implied or offered. Third parties making reference to the report should consult EJPP Developments Ltd and ENS as to the extent to which the findings may be appropriate for their use.

A glossary of acoustic terms used in the main body of the text is contained in Appendix 1.

1.2 Noise Validation Testing

In order demonstrate compliance with the requirements of Planning Condition 8, noise measurements were undertaken from 24th June 2025 through to Wednesday 25th June 2025. All measurements were undertaken with windows shut and trickle vents open with operational mechanical ventilation within the apartments.

Unattended long term noise measurements were undertaken within the bedroom of 63 Moor Lane, Apartment 3, overlooking A652, as well as rear elevation overlooking Moor Lane in 61 Moor Lane, Apartment 2 and Apartment 6 Bedroom.

Additional short term measurements were undertaken within the Living room and Bedroom of 63 Moor Lane, Apartment 1 and Living room Apartment 3 overlooking A652 as well as Bedrooms in 61 Moor Lane, Apartment 4.

Noise measurements were made in the centre of the subject rooms with windows closed using NTi XL3 and Brüel & Kjaer 2250 Type 1 integrating sound level meters. The measurement system calibrations were verified immediately before the commencement of the measurement sessions and again at the end, with no drift in calibration level noted.

The results of the noise validation test, for representative daytime and night time periods, are presented in Tables 1.1 – 1.7.

Table 1.1 – 63 Moor Apartment 3 Bedroom

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	Tuesday 24/06/25	1230-2300 hours	26 dB $L_{Aeq,T}$	35 dB L_{Aeq} (0700-2300)
	Wednesday 25/06/25	0700-1010 hours	27 dB $L_{Aeq,T}$	
Night time	Tuesday 24/06/25	2300–0700 hours	21 dB $L_{Aeq,T}$	30 dB L_{Aeq} (2300-0700)
Night time	Tuesday 24/06/25	2300–0700 hours	38 dB L_{AFmax} *	45 dB L_{AFmax} (2300-0700)

* 11th highest maximum noise level event in accordance with ProPG Planning and Noise: New Residential Development ¹

¹ ProPG states: 'In most circumstances in noise sensitive rooms at night (e.g. bedrooms) good acoustic design can be used so that individual noise events do not normally exceed 45dB $L_{Amax,F}$ more than 10 times a night'.

Table 1.2 – 61 Moor Apartment 2 Bedroom

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	Tuesday 24/06/25	1317-2300 hours	31 dB $L_{Aeq,T}$	35 dB L_{Aeq} (0700-2300)
	Wednesday 25/06/25	0700-0957 hours	31 dB $L_{Aeq,T}$	
Night time	Tuesday 24/06/25	2300–0700 hours	23 dB $L_{Aeq,T}$	30 dB L_{Aeq} (2300-0700)
Night time	Tuesday 24/06/25	2300–0700 hours	45 dB L_{AFmax} *	45 dB L_{AFmax} (2300-0700)

* 11th highest maximum noise level event in accordance with ProPG Planning and Noise: New Residential Development

Table 1.3 – 61 Moor Apartment 6 Bedroom

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	Tuesday 24/06/25	1401-2300 hours	26 dB $L_{Aeq,T}$	35 dB L_{Aeq} (0700-2300)
	Wednesday 25/06/25	0700-0959 hours	26 dB $L_{Aeq,T}$	
Night time	Tuesday 24/06/25	2300–0700 hours	20 dB $L_{Aeq,T}$	30 dB L_{Aeq} (2300-0700)
Night time	Tuesday 24/06/25	2300–0700 hours	36 dB L_{AFmax} *	45 dB L_{AFmax} (2300-0700)

* 11th highest maximum noise level event in accordance with ProPG Planning and Noise: New Residential Development

Table 1.4 – 61 Moor Lane Apartment 4 Bedroom

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	24/06/25	1319-1334 hours	28 dB $L_{Aeq,T}$	35 dB L_{Aeq} (0700-2300)

Table 1.5 – 63 Moor Lane Apartment 1 Kitchen/Living room

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	24/06/25	1059-1114 hours	26 dB $L_{Aeq,T}$	40 dB L_{Aeq} (0700-2300)

Table 1.6 – 63 Moor Lane Apartment 3 Kitchen/Living room

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	24/06/25	1119-1134 hours	30 dB $L_{Aeq,T}$	40 dB L_{Aeq} (0700-2300)

Table 1.7 – 63 Moor Lane Apartment 1 Bedroom

Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	25/06/25	1034-1049 hours	25 dB $L_{Aeq,T}$	35 dB L_{Aeq} (0700-2300)

On the basis of the above, the development readily demonstrates compliance with Planning Condition 8 of Planning Permission 2022/62/93344/E.

Appendix 1 – Abbreviations and Definitions

Sound Pressure Level (L_p)

The basic unit of sound measurement is the sound pressure level. As the pressures to which the human ear responds can range from 20 μ Pa to 200 Pa, a linear measurement of sound levels would involve many orders of magnitude. Consequently, the pressures are converted to a logarithmic scale and expressed in decibels (dB) as follows:

$$L_p = 20 \log_{10}(p/p_0)$$

Where L_p = sound pressure level in dB; p = rms sound pressure in Pa; and p_0 = reference sound pressure (20 μ Pa).

A-weighting

A frequency filtering system in a sound level meter, which approximates under defined conditions the frequency response of the human ear. The A-weighted sound pressure level, expressed in dB(A), has been shown to correlate well with subjective response to noise.

Equivalent continuous A-weighted sound pressure level, $L_{Aeq, T}$

The value of the A-weighted sound pressure level in decibels of continuous steady sound that within a specified time interval, T , has the same mean-square sound pressure as a sound that varies with time. $L_{Aeq, 16h}$ (07:00 to 23:00 hours) and $L_{Aeq, 8h}$ (23:00 to 07:00 hours) are used to qualify daytime and night time noise levels.

$L_{A10, T}$

The A-weighted sound pressure level in decibels exceeded for 10% of the measurement period, T . $L_{A10, 18h}$ is the arithmetic mean of the 18 hourly values from 06:00 to 24:00 hours.

$L_{A90, T}$

The A-weighted sound pressure level of the residual noise in decibels exceeded 90% of a given time interval, T . L_{A90} is typically taken as representative of background noise.

$L_{AF \max}$

The maximum A-weighted noise level recorded during the measurement period. The subscript 'F' denotes fast time weighting, slow time weighting 'S' is also used.

Single Event Level / Sound Exposure Level (SEL or L_{AE})

The energy produced by a discrete noise event averaged over one second, regardless of the event duration. This allows for comparison between different noise events which occur over different lengths of time.

Weighted Sound Reduction Index (R_w)

Single number quantity which characterises the airborne sound insulation properties of a material or building element over a defined range of frequencies (R_w is used to characterise the insulation of a material or product that has been measured in a laboratory).