



REPORT REFERENCE:

IMP8063

ENVIRONMENTAL NOISE IMPACT ASSESSMENT

British Standard 8233: 2014

British Standard 4142: 2014 +A1: 2019

CLIENT:

Robbie Williams

SITE:

10 High Street

Salisbury

SP1 2NW

SURVEY DATES:

30th January – 3rd February 2026

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1 EXECUTIVE SUMMARY

1.1 Instruction

Impact Acoustics Ltd have been instructed to undertake a background noise survey to British Standard 8233:2014 to determine the impact of existing noise sources on the proposed accommodation scheme for 10 High Street, Salisbury, SP1 2NW. It is proposed that the existing rear extension is refurbished.

1.2 Scope of Report

The measurements will be undertaken in accordance with ISO 1996 – Part 2: 2017 to determine the existing background noise levels and British Standard 8233: 2014 will be used to determine the impact of existing traffic on the internal noise environment within the proposed residential dwellings. This report aims to establish the following:

- Existing background noise levels within the area;
- Assess the potential internal noise levels on the proposed rooms;
- Provide specifications for the ventilation and window glazing with the proposed rooms.
- Review any commercial surround noise and make appropriate assessments if required.

1.3 Summary of Noise Results

1.3.1 Background Noise Levels

A 96-hour background noise survey was undertaken from 30th January – 3rd February 2026 at one position at the site in order to establish the underlying background noise levels. Recorded levels as follows:

Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 1 Front	30/01/2026	03/02/2026	62.8	60.2

Assessment Position	Date Start	Date Finish	Daytime LA90	Night Time LA90
Position 2 Rear	30/01/2026	03/02/2026	59.0	55.0

Due to the plant operating virtually continuously throughout the survey period, it was not possible to use representative hourly daytime and 15-minute night-time background sound levels as per BS4142. The near-constant operation of the plant would have artificially elevated the measured background sound level (LA90), resulting in a background that is not truly representative of the underlying acoustic environment in the absence of the site's influence. To avoid this distortion and to ensure a robust and precautionary appraisal, the assessment has instead been undertaken using 1-minute measurement data. This approach captures the rapid on-off cycling of the units and represents a worst-case scenario, as it reflects the lowest short-term background sound levels associated with the plant's operation.

1.4 Potential Façade Noise Levels

1.4.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low
Average Daytime (07:00-23:00)	$L_{Aeq, 16 \text{ HOUR}}$ 63.0 dB	50 - 63 dB

1.4.2 Night Time (23:00-07:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 3 - High
Average Night Time (23:00-07:00)	$L_{Aeq, 16 \text{ HOUR}}$ 61 dB	>60 dB
	Maximum (10 Times) – L_{Amax} 79.1 dB	>80 dB (10 Times in 8 Hours)

1.5 Risk Assessment

1.5.1 Daytime (07:00-23:00) – Position 1

Risk Assessment Category	Risk Assessment
1 – Low	At low noise levels, the site is likely to be acceptable from a noise perspective provided that a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised in the finished development.

1.5.2 Night Time (23:00-07:00) – Position 1

Risk Assessment Category	Risk Assessment
3 - High	High noise levels indicate that there is an increased risk that development may be refused on noise grounds. The risk may be reduced by following a good acoustic design process that is demonstrated in a detail ADS. Applicants are strongly advised to seek expert advice.

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 3 which suggests a high level of risk for night time levels. Therefore, no further mitigation levels will be required at Stage 2.

1.6 Proposed Glazing & Ventilation Specifications

The dining room velux windows should be designed with a 4mm glass / 6 - 16mm air gap / 4mm glass double glazed windows and a Titon V25 standard vent or similarly approved to the dining room to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014.

1.7 WHO Guidelines for Community Noise

The development does not propose external living areas on the development and therefore has not been assessed.

1.8 Existing Plant

There is a large amount of plant to the rear of the Kings Hotel on Bridge Street and also to the rear of Barclays Bank. Not all the plant was running at the time of the site visits. Therefore, make and model numbers were noted and then sound power levels requested from the manufacturers. This is detailed in the table below.

Make & Model	Number of Units	Lw dB(A)
Mitsubishi PURY-P250YJM-A	2	80.0
Beermaster BMO-250-3	1	69.0
J& E Hall JEHR-0180-B2-L-1	1	55.0
J&E Hall JEHS-0300-B2-M-3	2	56.0
Toshiba RAV-GM561ATP-E	1	65.0
J&E Hall JEHS-0250-B2-M-1	1	54.0
Mitsubishi PUZ-ZM200YKA2	2	73.0
Mitsubishi P250YNW-A2	1	80.0
Daikin ERQ100A7V1B	1	66.0
Daikin RXS50L2V1B	1	62.0
Daikin RXS35L3V1B	1	61.0
Daikin ERQ100A7V1B	1	66.0

The following pieces of plant had a noise level recorded at 1m. This noise level was then converted to a sound power level and inputted into the Cadna(A) software in order to calculate the façade level of the proposed site.

Description	Octave Band Centre Frequency (Hz)									Lw dB(A)
	31.5	63	125	250	500	1000	2000	4000	8000	
Kitchen Extract	83.3	81.1	92.6	90.1	84.4	89.1	78.3	69.5	62.6	90.9
Black Unit	81.9	79.9	88.9	89.8	79	74.2	70	66.7	61.1	83.7
York Unit	80.3	82.2	87.2	84	81.9	79.4	75.6	71.7	62.5	84.4

1.9 Assessment

1.9.1.1 Daytime (07:00 – 23:00).

Rating Level	54 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1 \text{ hour}}$	59 dB	8.1	Modal Background Noise Level
Assessment Level	-5 dB	11	The background level is subtracted from the rating level.
Assessment	-5 dB		
Conclusion	The assessment level is 'Low Impact'		

1.9.1.2 Night time (23:00 – 07:00).

Rating Level	51 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15 \text{ MINUTES}}$	55 dB	8.1	Modal Background Noise Level
Assessment Level	-4 dB	11	The background level is subtracted from the rating level.
Assessment	-4 dB		
Conclusion	The assessment level is 'Low Impact'		

It can be seen from the above assessments that the existing plant has returned an assessment conclusion of Low Impact. Therefore, further no mitigation measures are required.

1.10 Conclusions

Levels have been recorded and assessments made in accordance with the relevant standards. Internal criteria's have been set and calculations made in order to determine the minimum construction details required in order to meet the desired level within the proposed residential dwellings and satisfy the local council's requirements.

National Planning Policy Framework 2024 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

Based on the calculations and assessments made within this report it is the professional opinion of Impact Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2024, NPPF & NPSE.

2 INTRODUCTION

Impact Acoustics Ltd have been instructed to undertake a background noise survey to British Standard 8233:2014 to determine the impact of existing noise sources on the proposed accommodation scheme for 10 High Street, Salisbury, SP1 2NW. It is proposed that the existing rear extension is refurbished.

Ambient noise levels were measured between 30th January – 3rd February 2026. This report by Impact Acoustics Ltd gives the results of these measurements and an assessment in accordance with government planning guidelines and relevant standards together with mitigation measures as required.

With regards to external ambient noise, environmental noise levels are to be monitored at the site in accordance with British Standard 7445: 2003 'Description and measurement of environmental noise assessments and calculation made in accordance with BS 8233: 2014 Sound Insulation and Noise Reduction for Buildings Code of Practice.

2.1 Planning Practice Guidance and Noise

March 2014 saw the publication of the Planning Practice Guidance for Noise (PPG-Noise) and this was subsequently updated in December 2014. The Planning Practice Guidance and Noise sets out details of how potential noise impacts should be evaluated.

'Local planning authorities' plan-making and decision taking should take account of the acoustic environment and in doing so consider:

- *whether or not a significant adverse effect is occurring or likely to occur;*
- *whether or not an adverse effect is occurring or likely to occur; and*
- *whether or not a good standard of amenity can be achieved.*

In line with the Explanatory Note of the Noise Policy Statement for England, this would include identifying whether the overall effect of the noise exposure (including the impact during the construction phase wherever applicable) is, or would be, above or below the significant observed adverse effect level and the lowest observed adverse effect level for the given situation. As noise is a complex technical issue, it may be appropriate to seek experienced specialist assistance when applying this policy.'

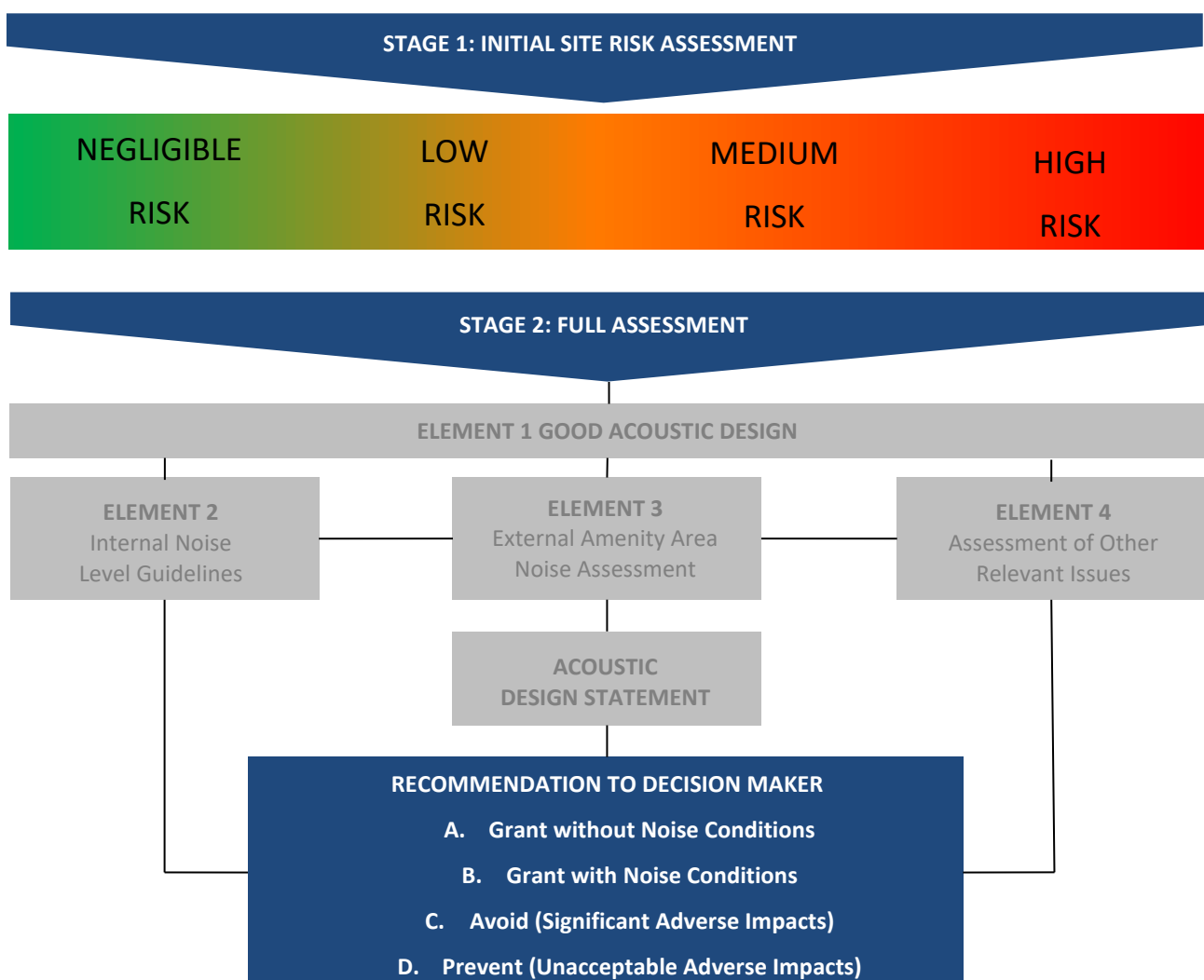
In accordance with Stage 2: Full Assessment, Other Noise Sources, detailed calculations and assessments should be carried out pertaining to these as PPG Noise does not provide advice and guidance when taking these elements into consideration.

2.1.1 Professional Practice Guidance on Planning & Noise.

The Professional Practice Guidance (PRoPG) on Planning and Noise for New Residential Development was published in May 2017 by the Association of Noise Consultants (ANC), Institute of Acoustics (IOA) and Chartered Institute of Environmental Health (CIEH). This document was developed in order to offer professional guidance on recommended strategies to the management of noise for use in the associated planning applications for specific sites. This, furthermore, provides a numerical acoustic standard in accordance with the Government's planning and noise policies.

This document has been developed to ensure the developer adopts a good acoustic design process to ensure protection for future residents from the potential harmful effects from noise. The PRoPG denotes that it *'does not constitute an official government code of practice and neither replaces nor provides an authoritative interpretation of the law or government policy on which users should take their own advice as appropriate'*.

The PRoPG adopts a twin-stage approach, firstly providing an 'Initial Noise Risk Assessment' of the proposed development site before undertaking a detailed approach of a noise impact assessment. The results from the initial noise risk assessment are an indication of the general acoustic environment of the proposed development and demonstrate how detailed the noise impact assessment will need to be in order to mitigate any acoustic issues.



2.2 British Standard 8233: 2014

With regards to external ambient noise, environmental noise levels are to be monitored at the site in accordance with British Standard 7445: 2003 'Description and measurement of environmental noise assessments and calculation made in accordance with BS 8233: 2014 Sound Insulation and Noise Reduction for Buildings Code of Practice.

BS 8233: 2014 set the following parameters as target levels that should be designed to within rooms such as Living Rooms and Bedrooms.

Indoor ambient noise levels in spaces when they are unoccupied, and privacy is also important		
Objective	Typical situations	Design Range L _{Aeq,t} dB
Typical noise levels for acoustic privacy in shared spaces	Living room	35 – 40
NOTE: See Noise control in building services [28] and BS EN ISO 3382.		

Indoor ambient noise levels for dwellings			
Activity	Location	07:00 – 23:00	23:00 – 07:00
Resting	Living Room	35 dB L _{Aeq} 16 HOUR	--
Dining	Dining Room / Area	40 dB L _{Aeq} 16 HOUR	--
Sleeping (daytime resting)	Bedroom	35 dB L _{Aeq} 16 HOUR	30 dB L _{Aeq} 8 HOUR

Calculations and assessments are therefore to be carried out in order to satisfy the above requirements of BS8233: 2014.

2.3 British Standard 4142: 2014+A1:2019

British Standard 4142: 2014 +A1:2019 is to be adopted for the basis of this background noise level assessment. A BS 4142: 2014 +A1:2019 noise assessment will be carried out in order to demonstrate the existing acoustic impact the external plant could have on the nearest affected residential and make suitable recommendations in order to demonstrate that these units will not have a significant and demonstrable adverse impact on the nearest noise sensitive premises in accordance with the National Planning Policy Framework.

2.4 National Planning Policy Framework 2024 (NPPF) and Noise Policy Statement for England 2010 (NPSE).

References and evaluations are to be made to the National Planning Policy Framework 2024 (NPPF) and the Noise Policy Statement for England 2010 (NPSE). The purpose of this document is to include all aspects of environmental noise within assessments i.e. environmental noise, neighbour noise and neighbourhood noise. Noise is to be considered alongside other relevant issues relating to the site and should not be considered in isolation, according to the NPSE.

There are several key phrases within the NPSE aims and these are discussed below.

2.4.1 “Significant adverse” and “adverse”

There are two established concepts from toxicology that are currently being applied to noise impacts, for example, by the World Health Organisation. They are:

2.4.2 NOEL – No Observed Effect Level

This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.

2.4.3 LOAEL – Lowest Observed Adverse Effect Level

This is the level above which adverse effects on health and quality of life can be detected.

Extending these concepts for the purpose of this NPSE leads to the concept of a significant observed adverse effect level.

2.4.4 SOAEL – Significant Observed Adverse Effect Level

This is the level above which significant adverse effects on health and quality of life occur.

It is not possible to have a single objective noise-based measure that defines SOAEL that is applicable to all sources of noise in all situations. Consequently, the SOAEL is likely to be different for different noise sources, for different receptors and at different times. It is acknowledged that further research is required to increase our understanding of what may constitute a significant adverse impact on health and quality of life from noise. However, not having specific SOAEL values in the NPSE provides the necessary policy flexibility until further evidence and suitable guidance is available.

2.5 World Health Organisation ‘Guidelines for Community Noise’

In addition, calculations are to be made for the predicted daytime noise levels within the outdoor living area and assessments made against the recommended levels within the World Health Organisation’s ‘Guidelines for Community Noise’. In order to evaluate these levels accurately, the 3D modelling software CADNA A is to be adopted for the purpose of this assessment.

Finally, assessments and references are to be made to the World Health Organisation Night Time Noise Guidance 2009.

3 SITE LOCATION

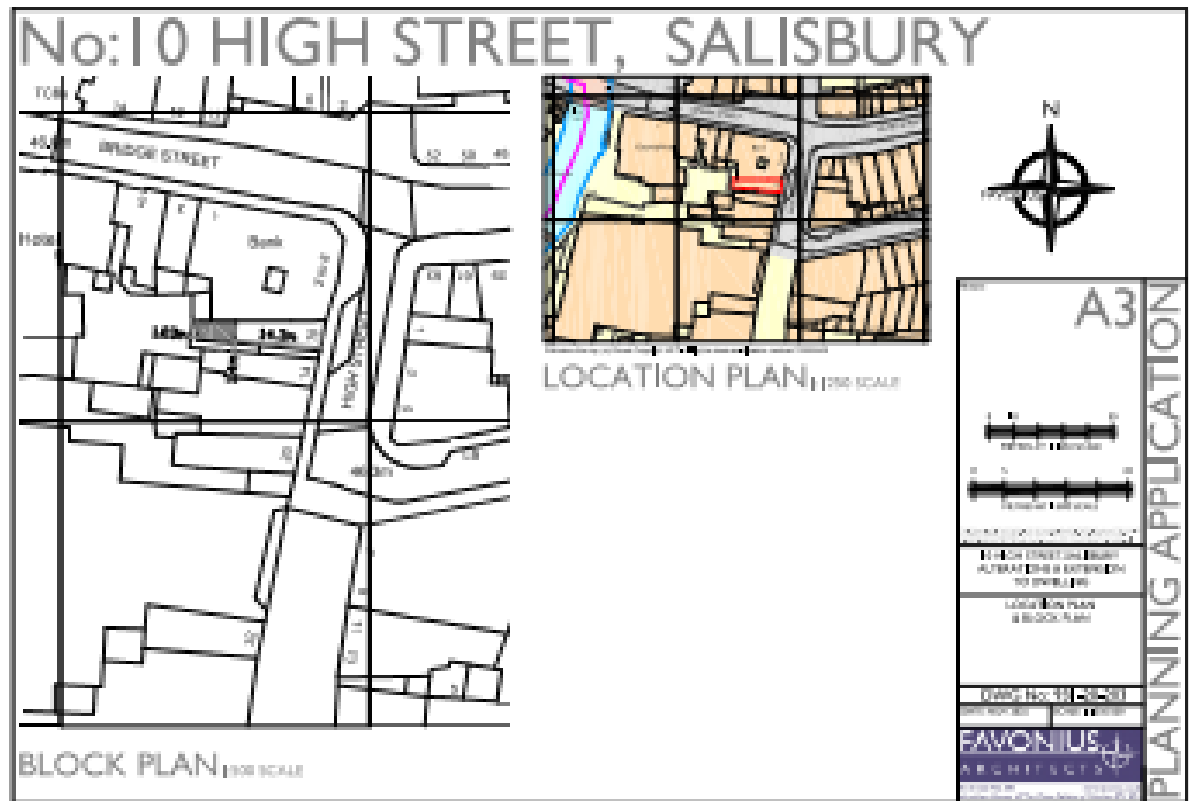
Position of Site in Wider Area

The site is located in Salisbury. The dominant noise source is road traffic noise.



3.1 Proposed Development

The proposed development is shown below.



Proposed Block Plan



Proposed Floor Plans

4 PROCEDURE

External noise levels were recorded over a typical period and analysis date extrapolated between 07:00 hrs – 07:00 hrs on 30th January 2026 at position 1 as detailed on the attached plan sketch layout.

Position 1 was located at the rear façade of the site in order to capture the noise levels associated with the background noise levels. Sample measurements were recorded over continuous 15 minute samples and from this data the hourly LAeq daytime values have been evaluated. Sound Pressure Levels were recorded on the following setting along with a full octave band frequency analysis measured simultaneously and between 31.5 Hz and 16.0 kHz.

<u>Daytime 07:00 – 23:00</u>		<u>Night Time 23:00 – 07:00</u>	
LAeq 1 HOUR dB	LA10 1 HOUR dB	LAeq 15 MINUTES dB	LA10 15 MINUTES dB
LAMAX 1 HOUR dB	LA50 1 HOUR dB	LAMAX 15 MINUTES dB	LA50 15 MINUTES dB
LAMIN 1 HOUR dB	LA90 1 HOUR dB	LAMIN 15 MINUTES dB	LA90 15 MINUTES dB

Calculations have been made in accordance with BS 8233: 2014 'Sound Insulation and Reduction of Buildings - Code of Practice'. Recommendations were made for any additional acoustics measures to conform to these standards.

From the downloaded recorded results, the daytime and night time periods were assessed and used within the above calculations as LAeq 16 HOUR dB levels for daytime and LAeq 8 HOUR dB levels for night time. These are detailed within this report. All data averaged throughout the day has been done so on a logarithmic basis to give accurate LAeq 16 Hour dB daytime and LAeq 8 Hour dB night time noise levels.

Finally, it should be noted that calculations are carried out with façade levels corrected from the recorded noise levels to the calculated façade levels.

5 APPARATUS

The equipment was calibrated using a sound pressure level of 114.0 dB at an octave band centre frequency of 1000Hz with reference to $2 \times 10^{-5} \text{ Nm}^{-2}$ before and after the tests and the equipment set to have no inaccuracy greater than 0.2dB.

All the following equipment was calibrated in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service (UKAS) on the following dates.

5.1 140 NOISE METER s/n 1403140 ENVIRONMENTAL TESTING

Description	Make	Type	Serial No.	Calibration Intervals	Cert No.	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	140	1403140	2 YEARS	C00485	03.06.2024	03.06.2026
12.5mm Microphone (with windshield)	Norsonic	1225	579775	2 YEARS	C00485	03.06.2024	03.06.2026
Microphone Pre – Amplifier	Norsonic	1206	12486	2 YEARS	C00485	03.06.2024	03.06.2026

5.2 140 NOISE METER s/n 1402941 ENVIRONMENTAL TESTING

Description	Make	Type	Serial No.	Calibration Intervals	Cert No.	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	140	1402941	2 YEARS	48450	30.07.2024	30.07.2026
12.5mm Microphone (with windshield)	GRAS	40AF	179711	2 YEARS	48449	30.07.2024	30.07.2026
Microphone Pre – Amplifier	Norsonic	1209	30479	2 YEARS	48450	30.07.2024	30.07.2026

Full calibration certificates are available upon request.

6 RESULTS

6.1 Downloaded results, and averages.

6.1.1 30th – 31st January 2026

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	61.7	87.5	60.0	62.3	64.1	61.5	58.6	56.0	54.3	49.4	47.9	44.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	60.0	79.0	58.0	60.2	61.7	61.0	56.9	53.8	53.3	45.4	46.5	42.9

6.1.2 31st January – 1st February 2026

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.7	83.7	62.0	62.5	66.3	65.1	59.7	56.7	54.7	47.4	46.0	42.5
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	59.8	79.1	58.0	60.9	61.3	59.9	56.6	53.6	53.4	44.7	45.4	43.2

6.1.3 1st – 2nd February 2026

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.4	87.5	62.0	61.8	65.9	62.9	59.5	56.6	54.8	47.5	47.7	44.6
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	60.2	77.0	58.0	60.3	61.4	59.8	57.1	53.8	53.8	45.4	47.8	44.5

6.1.4 2nd – 3rd February 2026

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.8	90.2	62.0	63.0	66.1	63.0	59.8	56.7	55.5	49.9	47.5	43.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	59.8	77.8	58.0	60.0	60.6	59.6	56.7	53.6	53.4	45.0	45.3	43.0

The following noise levels have been used within the BS 8233: 2014 calculations.

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LAmaz	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.8	90.2	62.0	63.0	66.1	63.0	59.8	56.7	55.5	49.9	47.5	43.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	60.2	77.0	58.0	60.3	61.4	59.8	57.1	53.8	53.8	45.4	47.8	44.5

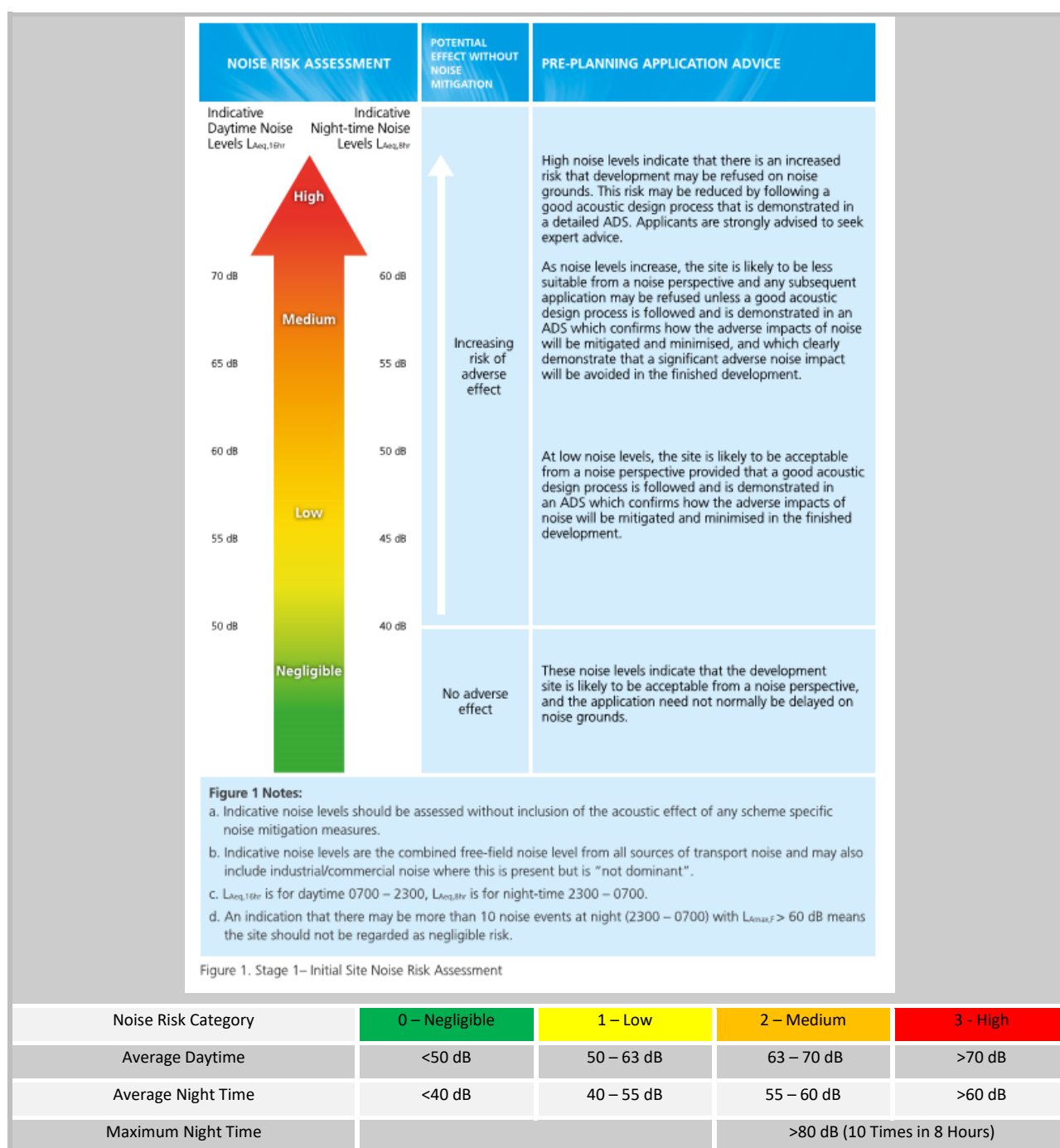
7 PROPG PLANNING & NOISE STAGE 1

7.1 Stage 1: Initial Site Noise Risk Assessment

The Stage 1, Initial Noise Risk Assessment, compares the recorded ambient noise levels obtained from the acoustic survey and correlates these against the risk scale within the PROPG Document in order to evaluate any potential adverse effects the site is currently exposed to with regards to noise.

The outcome of the Stage 1 assessment will determine the level of detail required within Stage 2 in order to demonstrate suitable mitigations can be introduced to ensure continuing compliance with the relevant standards, local planning policies and PROPG.

The following table demonstrates the Initial Risk Assessment Noise Levels as detailed within PROPG Figure.1:-



Based on the data collected from the aforementioned noise survey, the following PROPG Stage 1 assessments can be made:-

7.2 Potential Façade Noise Levels

7.2.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low
Average Daytime (07:00-23:00)	$L_{Aeq, 16 \text{ HOUR}}$ 63.0 dB	50 - 63 dB

7.2.2 Night Time (23:00-07:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 3 - High
Average Night Time (23:00-07:00)	$L_{Aeq, 16 \text{ HOUR}}$ 61 dB	>60 dB
	Maximum (10 Times) – L_{Amax} 79.1 dB	>80 dB (10 Times in 8 Hours)

7.3 Risk Assessment

7.3.1 Daytime (07:00-23:00) – Position 1

Risk Assessment Category	Risk Assessment
1 – Low	At low noise levels, the site is likely to be acceptable from a noise perspective provided that a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised in the finished development.

7.3.2 Night Time (23:00-07:00) – Position 1

Risk Assessment Category	Risk Assessment
3 - High	High noise levels indicate that there is an increased risk that development may be refused on noise grounds. The risk may be reduced by following a good acoustic design process that is demonstrated in a detail ADS. Applicants are strongly advised to seek expert advice.

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 3 which suggests a high level of risk for night time levels. Therefore, no further mitigation levels will be required at Stage 2.

8 PROPG PLANNING & NOISE STAGE 2 - ELEMENT 1 – GOOD ACOUSTIC DESIGN

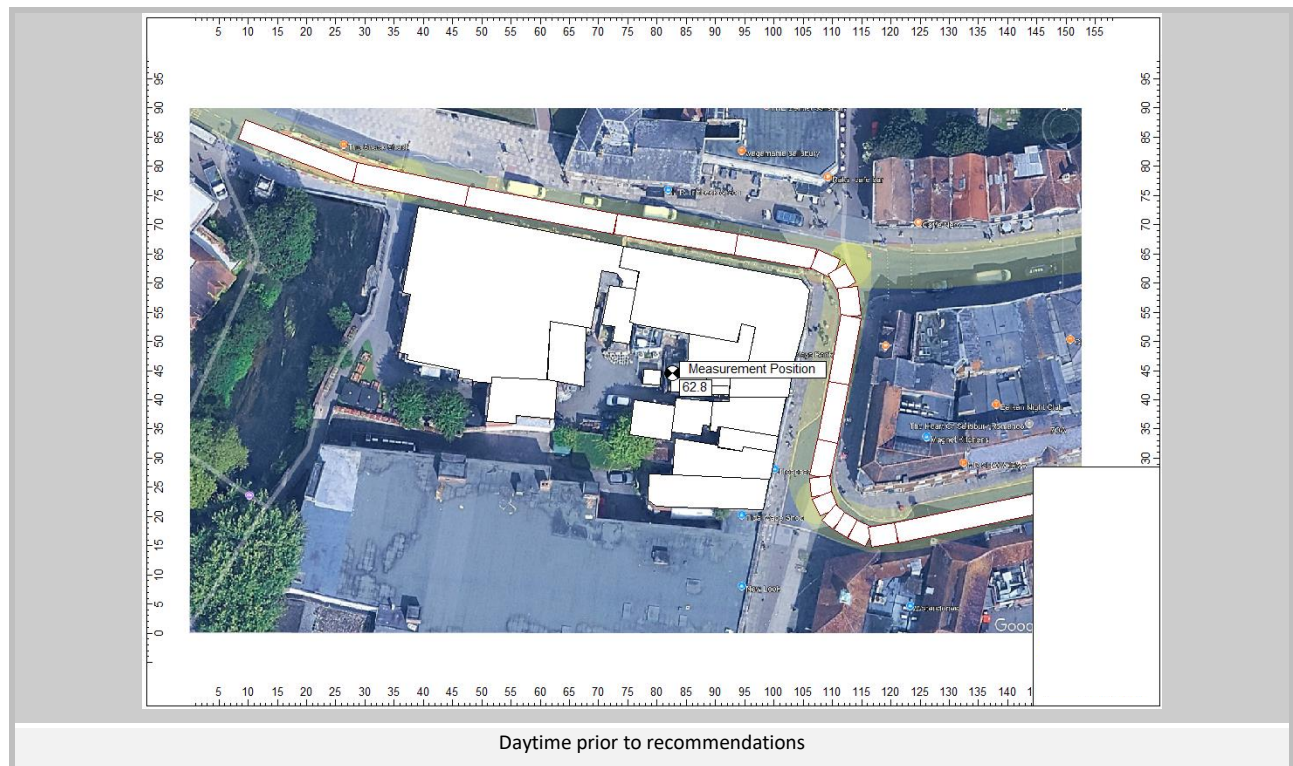
Given the size and orientation of the proposed site, it is recommended that the developer adopt, where practically possible, a good acoustic design which should include careful consideration of the positioning of the proposed properties together with thoughts being taken as to internal layouts to minimise noise sensitive rooms facing onto dominant noise sources within the local areas. Given the size of this development, every effort has already been made to minimise the acoustic impact from the surrounding areas.

9 ELEMENT 2 – INTERNAL NOISE LEVEL GUIDELINES

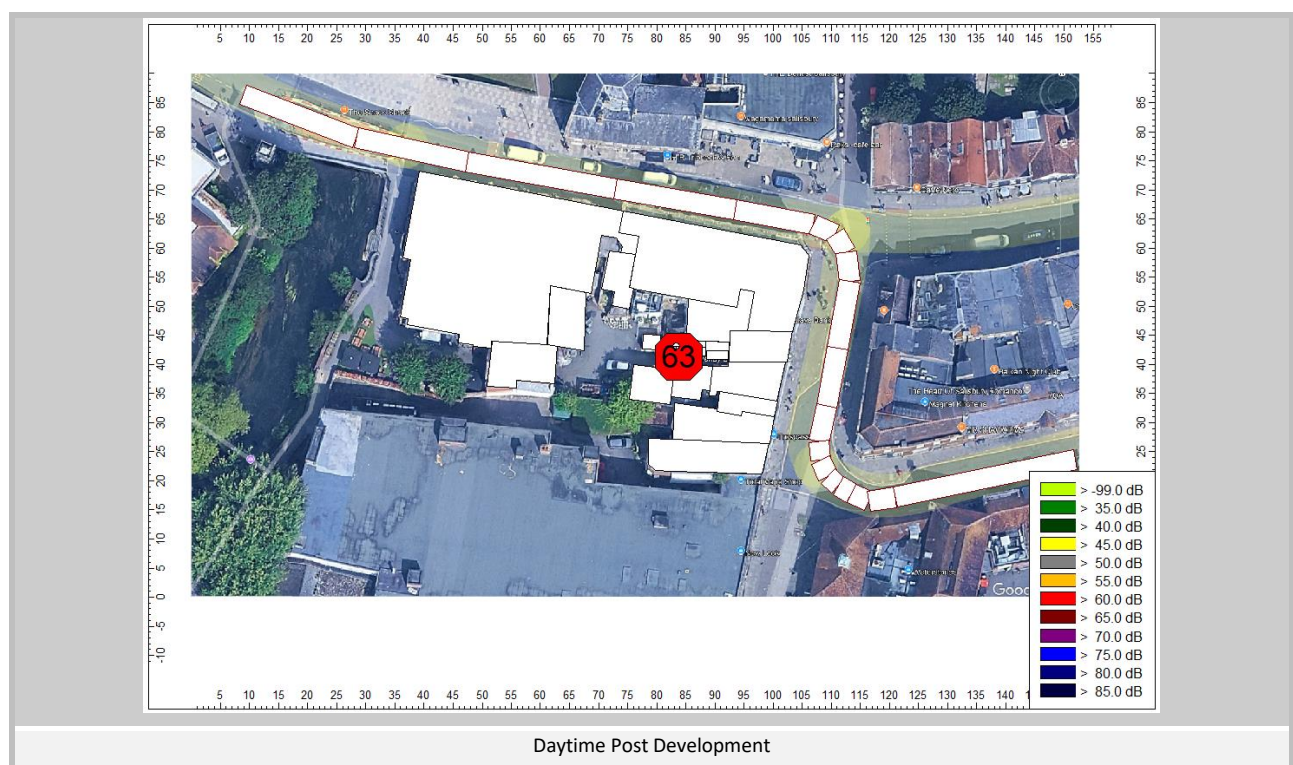
9.1 Discussion of Results

It can be seen from the attached graph and downloaded results that the external noise levels have followed the expected path and remained fairly constant throughout the day. The levels then gradually dropped off as the evening progressed and began to rise when morning traffic levels increased.

9.2 Existing Noise Levels – Daytime (07:00 – 23:00)



9.3 Proposed Noise levels – Daytime (07:00 – 23:00)



10 RECOMMENDATIONS

For the purpose of this assessment, the corresponding façade levels will be used within the BS 8233: 2014 calculations in order to evaluate the worst-case scenario and select the correct window specification.

Therefore, in order to achieve the required noise levels of $L_{Aeq\ 16\ HOUR}$ 35 dB for habitable rooms daytime and $L_{Aeq\ 8\ HOUR}$ 30 dB for Bedroom at night within the proposed, the following additional acoustic measures have been calculated.

It should be noted that the calculations have been made with the proposed windows closed. Additional calculations were made for the top floor due to the influence of sound transmission into the various rooms via the roof / ceiling i.e. an increased impeding façade. Inputted levels into the calculation sheets have been corrected for distance attenuation and free field in accordance with the aforementioned British Standard.

11 CALCULATION PROCEDURE TO BS 8233: 2014

The following calculations have been carried out in order to determine the required window and ventilation specification in order to meet the requirements of BS 8233: 2014.

11.1 First Floor Dining/Kitchen – Corrected to 63 dB daytime

Recorded Site Data (Corrected for Free Field)	Octave Band Centre Frequency (Hz)					
	125	250	500	1000	2000	4000
Daytime Leqff	66.1	63.0	59.8	56.7	55.5	49.9
Room Data	Sf	Sr	Swi	Sew	Srr	Volume
Area m²	29	26	0.6	28.4	26	60
Specification Summary	Site Specific Specification			Attenuation Required		
Glazing Specification	4mm / (16mm) / 4mm			Rw(C; Ctr)	29(-1,-4) dB	
Ventilation Strategy	Titon V25 / Std. Canopy			Dne'w	35 dB	
Wall Specification	Standard Pitched Roof			Rw	57 dB	
Roof Specification	Standard Pitched Roof			Rw	57 dB	
Calculation Results						
Daytime Hours (07:00-23:00)			L _{Aeq} 16 HOUR	32.0	dB(A)	
Formula	$Leq2=Leqff+10\log[A0/S*10^{(-Dne/10)}+Swi/S*10^{(-Rwi/10)}+Sew/10*10^{(-Rew/10)}+Srr/S*10^{(-Rrr/10)}]+10\log(S/A)+3$					
Note	The expected precision of this calculation is ±2 dB.					

11.2 Glazing (R_{wi})

Octave Band Frequency	125	250	500	1000	2000	4000	R _w (C,Ctr) dB
4mm glass / 16mm air gap / 4mm glass	21.0	17.0	25.0	35.0	37.0	31.0	29(-1,-4)

11.3 Ventilation (D_{ne'w})

Octave Band Frequency	125	250	500	1000	2000	4000	D _{ne'w} dB
Titon V25 Standard Canopy Vent	35.9	37.6	36.3	31.8	36.8	40.4	35.0

11.4 Walls (R_{ew})

Octave Band Frequency	125	250	500	1000	2000	4000	R _w dB
Minimum Value	39.0	48.0	55.0	60.0	59.0	61.0	57.0

11.5 Roof (R_{rr})

Octave Band Frequency	125	250	500	1000	2000	4000	R_w dB
Minimum Value	39.0	48.0	55.0	60.0	59.0	61.0	57.0

The above are minimum construction attenuation values and should alternative methods be selected; these should be equal to or greater than the above corresponding values. Calculations carried out have indicated the following specifications should be installed for this site.

11.6 Proposed Glazing & Ventilation Specifications

The dining room velux windows should be designed with a 4mm glass / 16mm air gap / 4mm glass double glazed windows and a Titon V25 standard vent or similarly approved to the dining room to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014.

12 COMMERCIAL NOISE

12.1 Outline

There is a large amount of plant to the rear of the Kings Hotel on Bridge Street and also to the rear of Barclays Bank. Not all the plant was running at the time of the site visits. Therefore, make and model numbers were noted and then sound power levels requested from the manufacturers. This is detailed in the table below.

Make & Model	Number of Units	Lw dB(A)
Mitsubishi PURY-P250YJM-A	2	80.0
Beermaster BMO-250-3	1	69.0
J& E Hall JEHR-0180-B2-L-1	1	55.0
J&E Hall JEHS-0300-B2-M-3	2	56.0
Toshiba RAV-GM561ATP-E	1	65.0
J&E Hall JEHS-0250-B2-M-1	1	54.0
Mitsubishi PUZ-ZM200YKA2	2	73.0
Mitsubishi P250YNW-A2	1	80.0
Daikin ERQ100A7V1B	1	66.0
Daikin RXS50L2V1B	1	62.0
Daikin RXS35L3V1B	1	61.0
Daikin ERQ100A7V1B	1	66.0

The following pieces of plant had a noise level recorded at 1m. This noise level was then converted to a sound power level and inputted into the Cadna(A) software in order to calculate the façade level of the proposed site.

Description	Octave Band Centre Frequency (Hz)									Lw dB(A)
	31.5	63	125	250	500	1000	2000	4000	8000	
Kitchen Extract	83.3	81.1	92.6	90.1	84.4	89.1	78.3	69.5	62.6	90.9
Black Unit	81.9	79.9	88.9	89.8	79	74.2	70	66.7	61.1	83.7
York Unit	80.3	82.2	87.2	84	81.9	79.4	75.6	71.7	62.5	84.4

12.2 Inputted Noise Levels

The following noise levels have been inputted in to the 3D acoustic Model in order to calculate the resultant noise levels at the aforementioned assessment position.

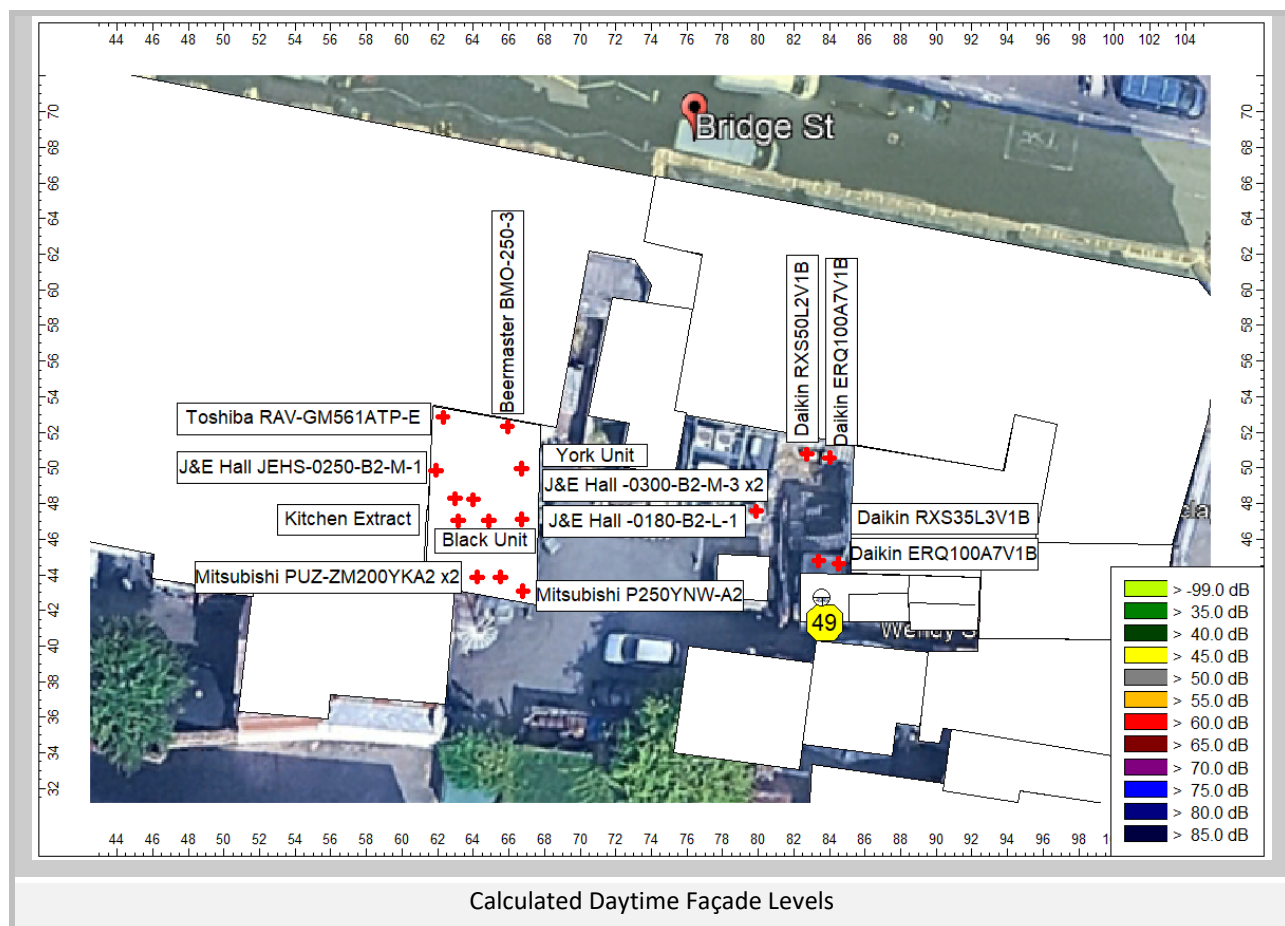
Name	M. ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height	Co
		Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	Day	Special	Night	(dB)	(Hz)		(m)	
		(dBA)	(dBA)	(dBA)								(m²)	(min)	(min)	(min)					
		80.0	80.0	80.0	Lw	80		0.0	0.0	0.0						0.0	1000	(none)	1.50	r
		80.0	80.0	80.0	Lw	80		0.0	0.0	0.0						0.0	1000	(none)	1.70	r
Beermaster BMO-250-3		69.0	69.0	69.0	Lw	69		0.0	0.0	0.0						0.0	1000	(none)	2.00	r
J&E Hall -0180-B2-L-1		55.0	55.0	55.0	Lw	55		0.0	0.0	0.0						0.0	1000	(none)	2.00	r
J&E Hall -0300-B2-M-3 x2		56.0	56.0	56.0	Lw	56		0.0	0.0	0.0						0.0	1000	(none)	2.00	r
J&E Hall -0300-B2-M-3		56.0	56.0	56.0	Lw	56		0.0	0.0	0.0						0.0	1000	(none)	2.00	r
Toshiba RAV-GM561ATP-E		65.0	65.0	65.0	Lw	65		0.0	0.0	0.0						0.0	1000	(none)	3.50	r
J&E Hall JEHS-0250-B2-M-1		54.0	54.0	54.0	Lw	54		0.0	0.0	0.0						0.0	1000	(none)	3.50	r
Mitsubishi PUZ-ZM200YKA2 x2		73.0	73.0	73.0	Lw	73		0.0	0.0	0.0						0.0	1000	(none)	4.70	r
Mitsubishi PUZ-ZM200YKA2		73.0	73.0	73.0	Lw	73		0.0	0.0	0.0						0.0	1000	(none)	4.70	r
Mitsubishi P250YNW-A2		80.0	80.0	80.0	Lw	80		0.0	0.0	0.0						0.0	1000	(none)	4.70	r
Daikin ERQ100A7V1B		66.0	66.0	66.0	Lw	66		0.0	0.0	0.0						0.0	1000	(none)	1.00	r
Daikin RXS50L2V1B		62.0	62.0	62.0	Lw	62		0.0	0.0	0.0						0.0	1000	(none)	0.50	r
Daikin RXS35L3V1B		61.0	61.0	61.0	Lw	61		0.0	0.0	0.0						0.0	1000	(none)	0.70	r
Daikin ERQ100A7V1B		66.0	66.0	66.0	Lw	66		0.0	0.0	0.0						0.0	1000	(none)	1.50	r
Kitchen Extract		90.9	90.9	90.9	Lw	Kitchen		0.0	0.0	0.0						0.0		(none)	3.50	r
Black Unit		83.7	83.7	83.7	Lw	Black		0.0	0.0	0.0						0.0		(none)	4.50	r
York Unit		84.4	84.4	84.4	Lw	York		0.0	0.0	0.0						0.0		(none)	4.50	r

INPUTTED NOISE LEVELS

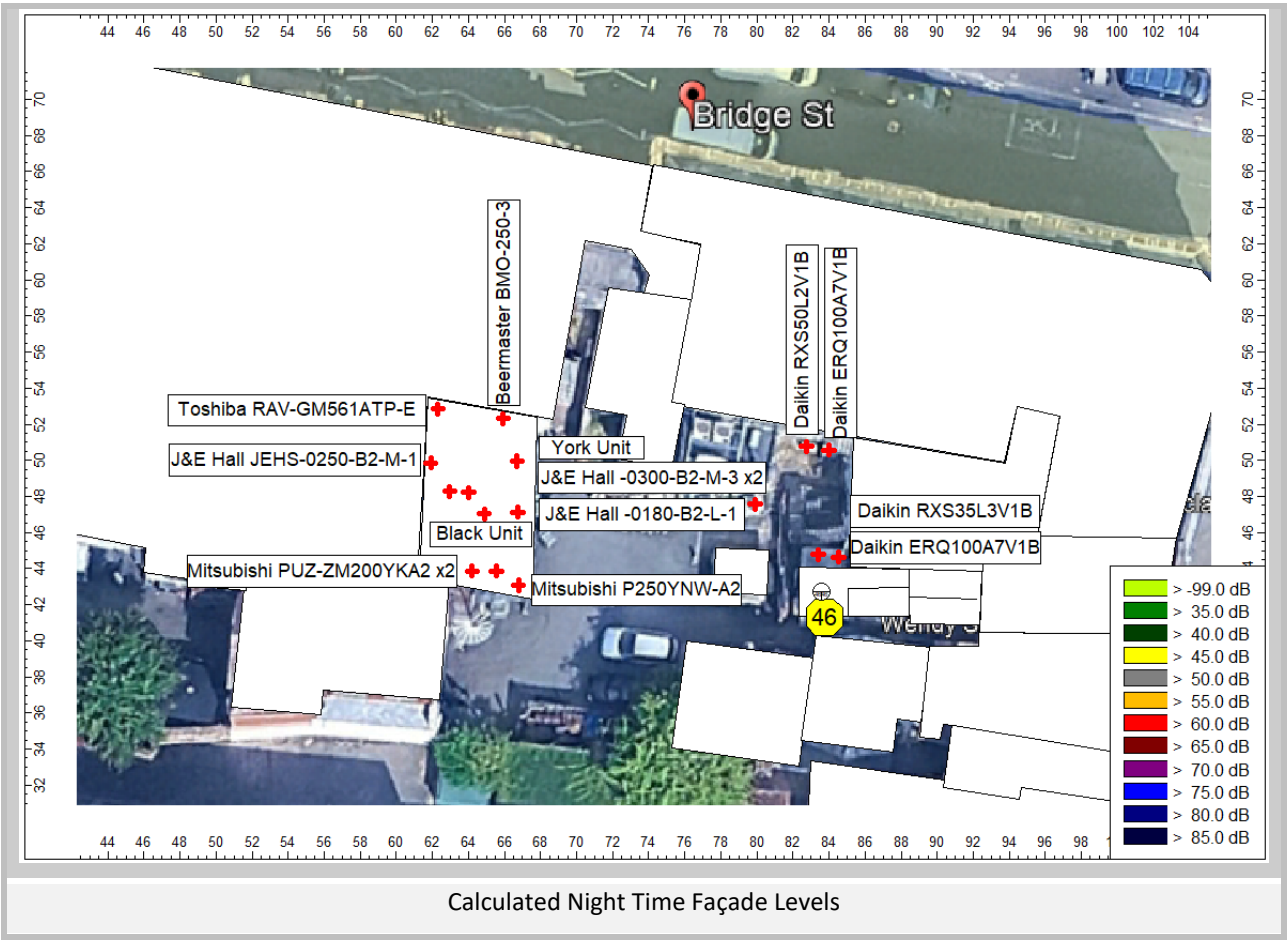
12.3 Calculated Façade Levels

Based on the above, the following calculated façade levels have been ascertained.

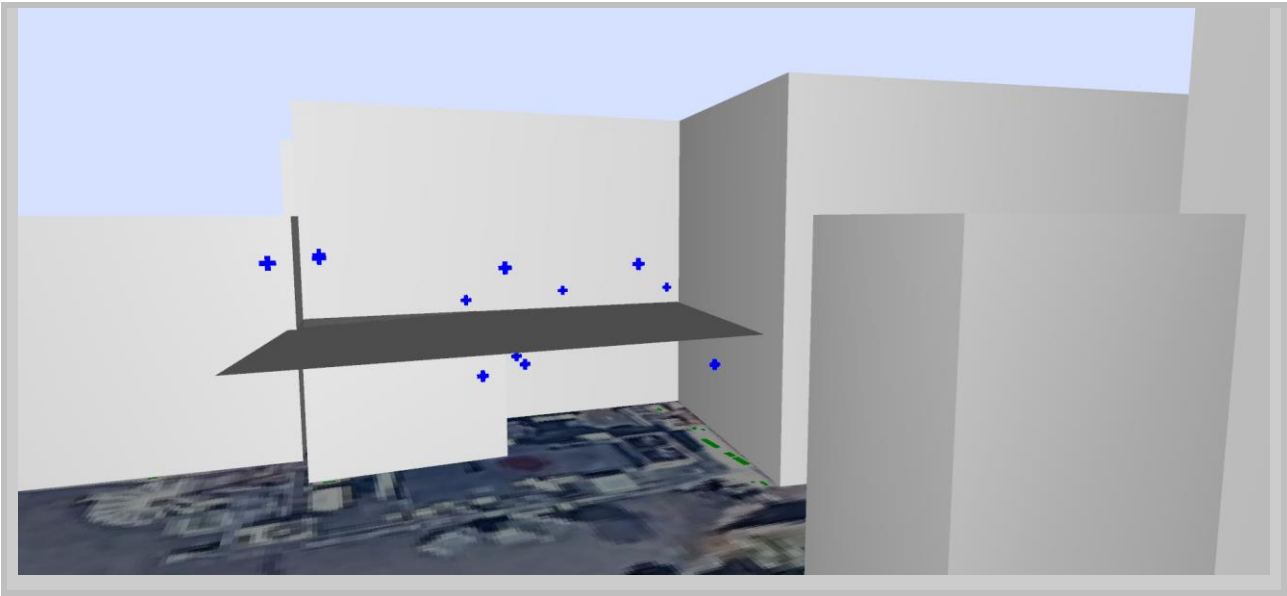
12.3.1 Daytime (07:00 – 23:00)



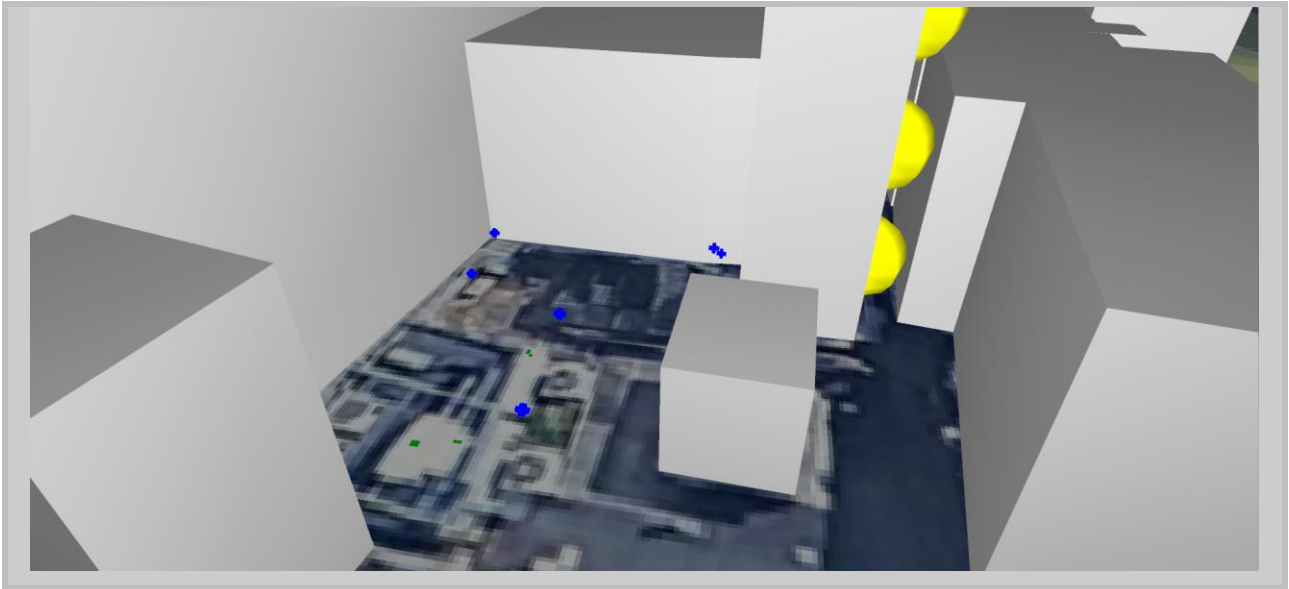
12.3.2 Night Time (23:00 – 07:00)



12.4 3D View of Plant at Rear of Hotel



12.5 3D View of Plant at Rear of Bank



Based on the above being achieved, the following noise assessment can be concluded.

13 BS4142: 2014 +A1:2019 NOISE ASSESSMENT

13.1 Scope of British Standard 4142: 2014

In the assessment of the existing surrounding commercial premises, consideration has been given to the scope of British Standard 4142:2014+A1:2019, which in section 1, details applicability of this standard to rating assessing sound of an industrial and/or commercial nature. It is considered appropriate that both the background noise levels and the rating noise levels obtained fall within the scope of British Standard 4142:2014+A1:2019 by using outdoor sound levels to assess the effect of sound on local residents.

13.2 Terms and Definitions

Symbol	Term	Definition
AP	Assessment Position	Position externally at the façade property under investigation at which the assessment is undertaken which is usually 1m from the 1 st floor bedroom window.
EP	Equivalent Position	Position at which the background noise levels are measured if there is no access to the assessment position or if source under investigation is audible.
$L_s = L_{Aeq, T}$	Specific Level	The average continuous equivalent sound pressure level of the source at the assessment position.
$L_{Ar, Tr}$	Rating Level	The average continuous equivalent sound pressure level of the source at the assessment position with a correction to account for the characteristic features.
$L_r = L_{Aeq, T}$	Residual Level	The average continuous equivalent sound pressure level at the assessment position without the source operating.
$L_{A90, T}$	Background Level	The sound pressure level that is not exceeded 90% of the time at the assessment position.
$L_a = L_{Aeq, T}$	Ambient Level	The totally encompassing sound at the assessment position including the residual and specific noise.

13.3 Assessment Position

The assessment position 1 was established as the residential accommodation premises nearby and no closer than 5m from the existing plant.

13.4 Rating Levels (Character Correction)

It is appropriate to add a character correction where there is a new source that cannot be measured in line with BS 4142:2014+A1:2019. There are 3 methods for approaching this.

- Subjective method
- Objective method (for tonality)
- Reference method

13.5 Subjective Method

The subjective method establishes a rating penalty that is added to the specific noise level if any of the following is present at the assessment position. If a tone is expected to be present a character correction of 0 dB to 6 dB is added depending on how perceptible it is at noise sensitive locations.

BS 4142:2014+A1:2019 – Section 9.2 Subjective Method	Perceptibility to noise sensitive facades	Correction
Tonality Ranging from not tonal to prominently tonal	Not tonal	+0
	Just perceptible	+2
	Clearly perceptible	+4
	Highly perceptible	+6

If the source is expected to be impulsive a character correction of 0 dB to 9 dB is added depending on how perceptible it is at noise sensitive locations.

BS 4142:2014+A1:2019 – Section 9.2 Subjective Method	Perceptibility to noise sensitive facades	Correction
Impulsivity Considering both the rapidity and any overall change in sound levels	Not impulsive	+0
	Just perceptible	+3
	Clearly perceptible	+6
	Highly perceptible	+9

When the sound features are neither tonal nor impulsive, a character correction of +3 is added for the readily distinctive quality against the acoustic environment or for the intermittency of the source.

BS 4142:2014+A1:2019 – Section 9.2 Subjective Method	Perceptibility to noise sensitive facades	Correction
Readily Distinctive	Is not present	+0
	Is present	+3
Intermittency	Is not present	+0
	Is present	+3

13.6 Assessment Criterion

The significance of the resulting noise on the residential property depends on the margin by which it exceeds the background noise levels. British Standard 4142:2014+A1:2019 provides the following guidance within section 11.

Difference	Assessment of Impact
+10 dB	Indication of a significant adverse impact
+5 dB	Indication of an adverse impact
+0 dB	Indication of low impact

13.7 Calculated Façade Levels

13.7.1 Daytime (07:00 – 23:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,1\text{ hour}}$	49 dB	7	Calculated using ISO 9613:1996 ^[3] .
Tonality	+2 dB	8.1	Tonality Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	54 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1\text{ hour}}$	59 dB	8.1	Modal Background Noise Level
Assessment Level	-5 dB	11	The background level is subtracted from the rating level.
Assessment	-5 dB		
Conclusion	The assessment level is 'Low Impact'		

13.7.2 Night time (23:00 – 07:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,15\text{ MINUTES}}$	46 dB	7	Calculated using ISO 9613:1996 ^[3] .
Tonality	+2 dB	8.1	Tonality Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	51 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15\text{ MINUTES}}$	55 dB	8.1	Modal Background Noise Level
Assessment Level	-4 dB	11	The background level is subtracted from the rating level.
Assessment	-4 dB		
Conclusion	The assessment level is 'Low Impact'		

13.8 Tonal Penalty

A penalty has been applied to the specific noise level to allow for any tonal elements that may be present from the existing plant.

13.9 Intermittency Penalty

A penalty has been applied to the specific noise level to allow for any intermittent elements that may be present from the existing plant.

13.10 Assessment Conclusion

It can be seen from the above assessments that the existing plant has returned an assessment conclusion of Low Impact. Therefore, no further mitigation measures are required.

14 NPPF & NPSE

The National Planning Policy Framework 2024 (NPPF) and assessments to the Noise Policy Statement for England 2010 (NPSE) should be made in conjunction with each other. Paragraphs 198 - 201 of the National Planning Policy Framework 2024 (NPPF) states the following:

Paragraph 198 Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

- a) Mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life.
- b) Identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason.

Paragraph 199 Planning policies and decisions should sustain and contribute towards compliance with relevant limit values or national objectives for pollutants. So far as possible these opportunities should be considered at the plan-making stage, to ensure a strategic approach and limit the need for issues to be reconsidered when determining individual applications.

Paragraph 200 Planning policies and decisions should ensure that new development can be integrated effectively with existing businesses and community facilities (such as places of worship, pubs, music venues and sports clubs). Existing businesses and facilities should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

Paragraph 201 The focus of planning policies and decisions should be on whether proposed development is an acceptable use of land, rather than the control of processes or emissions (where these are subject to separate pollution control regimes). Planning decisions should assume that these regimes will operate effectively. Equally, where a planning decision has been made on a particular development, the planning issues should not be revisited through the permitting regimes operated by pollution control authorities

The Noise Policy Statement for England gives various levels of effect as detailed within this report.

With the glazing / ventilation specifications achieved within this report, the development can be implemented within the guidelines of the aforementioned documents and ensure a conclusion of **NOEL – No Observed Effect Level**. This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.

15 ACOUSTIC DESIGN STATEMENT

Good Acoustic Design	Given the size and orientation of the proposed site, it is recommended that the developer adopted, where practically possible, a good acoustic design which should include careful consideration of the positioning of the proposed properties together with thoughts being taken as to internal layouts to minimise noise sensitive rooms facing onto dominant noise sources within the local areas. Given the size of this development, every effort has already been made to minimise the acoustic impact from the surrounding areas.
Internal Noise Levels	Calculations have been carried out and assessments made to BS 8233: 2014 together with design specifications supplied for the required glazing and ventilation specifications required across the development to ensure compliance.
BS: 4142+A1: 2019	It can be seen from the above assessments that the existing plant has returned an assessment conclusion of Low Impact. Therefore, no further mitigation measures are required.
NPPF & NPSE	With the glazing / ventilation specifications achieved within this report, the development can be implemented within the guidelines of the aforementioned documents and ensure a conclusion of NOEL – No Observed Effect Level. This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.
OVERALL OUTCOME	NOEL – No Observed Effect Level

16 RECOMMENDATION TO DECISION MAKER

Levels have been recorded and assessments made in accordance with the relevant standards. Internal criteria's have been set and calculations made in order to determine the minimum construction details required in order to meet the desired level within the proposed residential dwellings and satisfy the local council's requirements.

National Planning Policy Framework 2024 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

Based on the calculations and assessments made within this report it is the professional opinion of Impact Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2024, NPPF & NPSE and that, with regards to sound, planning permission can be granted using the following parameters.

As indicated in Section 2 of PRoPG, following the PRoPG approach will lead to the choice of one of four possible recommendations from the noise practitioner to the decision maker:

- A. Planning consent may be granted without any need for noise conditions;
- B. Planning consent may be granted subject to the inclusion of suitable noise conditions;
- C. Planning consent should be refused on noise grounds in order to avoid significant adverse effects ("avoid"); or
- D. Planning consent should be refused on noise grounds in order to prevent unacceptable adverse effects ("prevent").

RECOMMENDATION TO DECISION MAKER

Grant with Noise Conditions

17 CONCLUSION

17.1 Summary of Noise Results

A 96-hour background noise survey was undertaken from 30th January – 3rd February 2026 at one position at the site in order to establish the underlying background noise levels. Recorded levels as follows:

Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 1 Front	30/01/2026	03/02/2026	62.8	60.2

Assessment Position	Date Start	Date Finish	Daytime LA90	Night Time LA90
Position 2 Rear	30/01/2026	03/02/2026	59.0	55.0

It should be noted that the lowest 1 minute LA90 has been used for this technical report, due to the on/off characteristics of the site.

17.2 Potential Façade Noise Levels

17.2.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low
Average Daytime (07:00-23:00)	L _{Aeq} , 16 HOUR 63.0 dB	50 - 63 dB

17.2.2 Night Time (23:00-07:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 3 - High
Average Night Time (23:00-07:00)	L _{Aeq} , 16 HOUR 61 dB	>60 dB
	Maximum (10 Times) – L _{Amax} 79.1 dB	>80 dB (10 Times in 8 Hours)

17.3 Risk Assessment

17.3.1 Daytime (07:00-23:00) – Position 1

Risk Assessment Category	Risk Assessment
1 – Low	At low noise levels, the site is likely to be acceptable from a noise perspective provided that a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised in the finished development.

17.3.2 Night Time (23:00-07:00) – Position 1

Risk Assessment Category	Risk Assessment
3 - High	High noise levels indicate that there is an increased risk that development may be refused on noise grounds. The risk may be reduced by following a good acoustic design process that is demonstrated in a detail ADS. Applicants are strongly advised to seek expert advice.

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 3 which suggests a high level of risk for night time levels. Therefore, no further mitigation levels will be required at Stage 2.

17.4 Proposed Glazing & Ventilation Specifications

The dining room velux windows should be designed with a 4mm glass / 6 - 16mm air gap / 4mm glass double glazed windows and a Titon V25 standard vent or similarly approved to the dining room to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014.

17.5 WHO Guidelines for Community Noise

The development does not propose external living areas on the development and therefore has not been assessed.

17.6 Existing Plant

There is a large amount of plant to the rear of the Kings Hotel on Bridge Street and also to the rear of Barclays Bank. Not all the plant was running at the time of the site visits. Therefore, make and model numbers were noted and then sound power levels requested from the manufacturers. This is detailed in the table below.

Make & Model	Number of Unis	Lw dB(A)
Mitsubishi PURY-P250YJM-A	2	80.0
Beermaster BMO-250-3	1	69.0
J& E Hall JEHR-0180-B2-L-1	1	55.0
J&E Hall JEHS-0300-B2-M-3	2	56.0
Toshiba RAV-GM561ATP-E	1	65.0
J&E Hall JEHS-0250-B2-M-1	1	54.0
Mitsubishi PUZ-ZM200YKA2	2	73.0
Mitsubishi P250YNW-A2	1	80.0
Daikin ERQ100A7V1B	1	66.0
Daikin RXS50L2V1B	1	62.0
Daikin RXS35L3V1B	1	61.0
Daikin ERQ100A7V1B	1	66.0

The following pieces of plant had a noise level recorded at 1m. This noise level was then converted to a sound power level and inputted into the Cadna(A) software in order to calculate the façade level of the proposed site.

Description	Octave Band Centre Frequency (Hz)									Lw dB(A)
	31.5	63	125	250	500	1000	2000	4000	8000	
Kitchen Extract	83.3	81.1	92.6	90.1	84.4	89.1	78.3	69.5	62.6	90.9
Black Unit	81.9	79.9	88.9	89.8	79	74.2	70	66.7	61.1	83.7
York Unit	80.3	82.2	87.2	84	81.9	79.4	75.6	71.7	62.5	84.4

17.7 Assessment

17.7.1.1 Daytime (07:00 – 23:00).

Rating Level	54 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1 \text{ hour}}$	59 dB	8.1	Modal Background Noise Level
Assessment Level	-5 dB	11	The background level is subtracted from the rating level.
Assessment	-5 dB		
Conclusion	The assessment level is 'Low Impact'		

17.7.1.2 Night time (23:00 – 07:00).

Rating Level	51 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15 \text{ MINUTES}}$	55 dB	8.1	Modal Background Noise Level
Assessment Level	-4 dB	11	The background level is subtracted from the rating level.
Assessment	-4 dB		
Conclusion	The assessment level is 'Low Impact'		

It can be seen from the above assessments that the existing plant has returned an assessment conclusion of Low Impact. Therefore, further no mitigation measures are required.

17.8 Conclusions

Levels have been recorded and assessments made in accordance with the relevant standards. Internal criteria's have been set and calculations made in order to determine the minimum construction details required in order to meet the desired level within the proposed residential dwellings and satisfy the local council's requirements.

National Planning Policy Framework 2024 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

Based on the calculations and assessments made within this report it is the professional opinion of Impact Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2024, NPPF & NPSE.

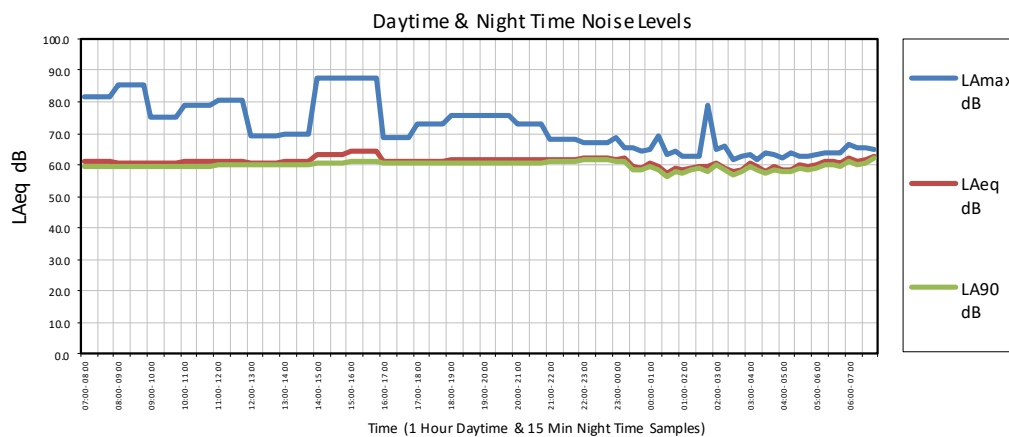
18 APPENDIX A – NOISE RESULTS

18.1 30th – 31st January 2026

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Cor r esponding LAmaz 16 HOUR	61.7	87.5	60.0	62.3	64.1	61.5	58.6	56.0	54.3	49.4	47.9	44.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Cor r esponding LAmaz 8 HOUR	60.0	79.0	58.0	60.2	61.7	61.0	56.9	53.8	53.3	45.4	46.5	42.9

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	Octave Band Centre Frequency (Hz)								
				63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	61.1	61.9	59.7	61.4	63.4	61.4	58.5	55.7	51.4	47.1	50.3	46.7
08:00 - 09:00	60.7	85.2	59.7	62.0	63.5	61.2	58.2	55.1	51.8	46.1	49.4	46.5
09:00 - 10:00	60.3	75.0	59.5	61.9	63.2	61.2	57.8	55.0	50.6	45.2	49.1	46.2
10:00 - 11:00	61.0	79.0	59.7	62.0	63.4	61.4	58.1	55.8	52.8	45.5	48.3	45.6
11:00 - 12:00	61.3	80.3	60.3	62.5	64.0	61.5	58.4	55.6	54.1	45.7	47.0	43.9
12:00 - 13:00	60.8	69.2	60.0	62.1	64.0	61.5	58.3	55.1	53.1	45.3	45.1	40.6
13:00 - 14:00	60.9	69.9	60.1	62.7	64.4	61.5	58.4	55.1	53.1	45.3	46.3	42.8
14:00 - 15:00	63.4	87.5	60.7	62.4	64.4	61.6	58.6	56.2	57.1	55.4	48.7	42.3
15:00 - 16:00	64.2	87.4	60.9	63.2	64.7	61.7	59.0	56.6	58.1	56.9	51.0	45.0
16:00 - 17:00	61.2	68.5	60.4	62.7	64.4	61.5	58.5	55.5	53.6	45.9	45.9	43.8
17:00 - 18:00	61.4	73.1	60.5	62.8	64.6	61.6	58.6	55.8	53.9	46.2	45.6	43.1
18:00 - 19:00	61.6	75.5	60.7	62.6	64.2	61.4	58.6	56.1	54.5	45.7	46.9	43.7
19:00 - 20:00	61.6	72.8	60.7	62.5	64.1	61.4	58.4	56.6	54.5	45.5	47.2	44.3
20:00 - 21:00	61.8	68.2	61.0	61.3	64.6	61.8	58.9	56.5	54.1	46.5	46.6	43.4
21:00 - 22:00	62.3	67.2	61.5	62.1	64.6	62.0	59.3	57.0	55.2	47.3	47.1	43.9
22:00 - 23:00	62.0	76.1	61.2	62.3	64.4	61.8	59.2	56.7	54.4	47.1	47.0	43.5

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmax	LA90	Octave Band Centre Frequency (Hz)								
				63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	61.8	68.9	61.1	62.4	64.5	61.8	59.1	56.6	54.1	47.0	46.3	42.4
23:15 - 23:30	62.0	65.6	61.3	62.0	64.6	61.6	59.1	56.1	55.3	46.6	48.3	44.1
23:30 - 23:45	59.6	65.7	58.7	59.7	62.2	59.5	57.0	54.2	51.6	44.8	46.8	43.8
23:45 - 00:00	59.0	64.6	58.3	60.1	58.9	58.2	56.1	52.8	52.8	44.6	45.8	42.7
00:00 - 00:15	60.5	64.9	59.6	61.9	60.9	59.2	57.3	53.8	54.9	45.8	45.8	41.8
00:15 - 00:30	59.4	69.2	58.3	61.8	59.5	58.7	56.6	53.5	53.2	44.2	44.2	38.8
00:30 - 00:45	57.5	63.1	56.5	60.1	56.8	57.6	55.2	52.1	48.4	43.6	46.8	44.0
00:45 - 01:00	58.8	64.3	58.0	61.6	59.3	58.4	56.1	52.9	51.9	44.0	46.3	43.3
01:00 - 01:15	58.3	62.6	57.1	60.3	58.6	58.0	55.5	52.7	50.7	43.5	47.2	44.7
01:15 - 01:30	59.1	62.8	58.2	62.0	59.0	58.5	56.2	52.9	52.7	44.2	47.2	44.4
01:30 - 01:45	59.6	62.6	59.0	61.3	60.0	58.6	56.8	53.1	53.6	45.4	45.6	41.8
01:45 - 02:00	59.3	79.0	58.1	58.5	58.7	58.3	56.2	53.3	52.8	45.8	47.4	44.2
02:00 - 02:15	60.7	64.8	60.0	60.9	60.8	59.3	57.3	53.8	55.6	46.0	45.7	41.5
02:15 - 02:30	59.0	66.0	58.2	59.8	59.7	58.7	56.2	52.7	52.5	44.3	44.5	39.2
02:30 - 02:45	57.9	61.8	57.0	58.0	57.9	58.1	55.4	52.4	50.0	43.6	44.6	40.3
02:45 - 03:00	58.5	62.8	57.7	58.3	58.6	58.3	55.9	52.5	51.5	44.5	45.3	41.5
03:00 - 03:15	60.4	63.3	59.5	60.6	60.6	59.2	56.9	53.5	55.2	45.3	45.8	42.4
03:15 - 03:30	59.2	61.9	58.3	59.4	58.9	59.0	55.7	52.7	53.5	43.9	47.0	44.4
03:30 - 03:45	58.0	63.7	57.1	57.9	58.3	58.1	55.3	52.3	49.8	43.9	47.2	44.8
03:45 - 04:00	59.5	63.2	58.6	59.2	59.4	58.6	56.2	52.8	54.0	44.4	44.6	40.3
04:00 - 04:15	58.5	62.5	57.7	58.4	58.8	58.1	55.9	52.4	51.6	43.9	46.5	43.6
04:15 - 04:30	58.6	63.8	57.7	58.7	58.0	58.3	55.7	52.3	52.0	43.9	46.7	43.5
04:30 - 04:45	59.8	62.7	59.0	59.3	59.6	58.7	56.5	53.2	54.2	45.6	46.2	41.2
04:45 - 05:00	59.3	63.0	58.5	58.9	60.6	58.4	56.1	52.6	53.2	45.4	47.5	43.6
05:00 - 05:15	59.8	63.1	58.9	60.0	59.5	59.1	56.1	53.2	54.2	45.3	47.9	44.9
05:15 - 05:30	61.1	63.9	60.2	60.2	63.6	63.0	57.7	54.5	54.5	46.5	45.5	40.8
05:30 - 05:45	61.0	64.0	60.2	59.2	64.3	64.5	57.6	54.3	53.4	46.7	46.4	42.3
05:45 - 06:00	60.5	63.6	59.6	58.5	63.6	64.3	57.1	54.0	51.6	46.4	47.4	44.0
06:00 - 06:15	62.1	66.5	61.1	60.9	64.6	64.8	58.3	54.9	55.8	47.3	46.2	41.2
06:15 - 06:30	60.9	65.4	60.0	59.0	64.2	64.6	57.4	54.2	52.8	46.5	47.3	43.7
06:30 - 06:45	61.7	65.5	60.8	60.0	65.6	65.2	58.6	55.8	52.4	46.9	46.3	41.6
06:45 - 07:00	62.9	65.0	62.1	61.3	66.6	65.6	59.6	57.1	54.8	47.4	46.6	41.8

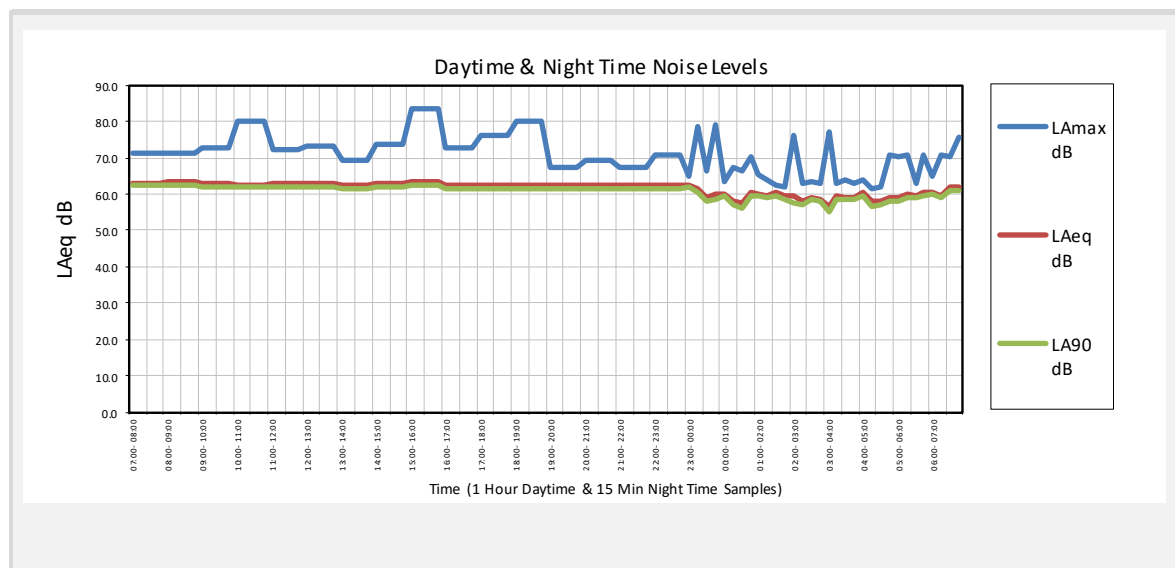


18.2 31st January – 1st February 2026

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.7	83.7	62.0	62.5	66.3	65.1	59.7	56.7	54.7	47.4	46.0	42.5
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	59.8	79.1	58.0	60.9	61.3	59.9	56.6	53.6	53.4	44.7	45.4	43.2

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	63.1	71.4	62.3	61.5	66.6	65.7	59.9	57.0	55.5	48.3	47.7	43.6
08:00 - 09:00	63.4	71.1	62.6	63.1	66.8	65.7	60.4	57.0	55.9	47.8	47.5	43.4
09:00 - 10:00	62.8	72.7	62.0	62.9	66.5	65.8	60.0	56.7	54.6	47.3	46.1	41.4
10:00 - 11:00	62.6	80.0	61.8	62.7	66.3	65.9	59.5	56.5	54.4	47.4	45.5	40.0
11:00 - 12:00	62.7	72.2	61.8	63.1	66.4	65.9	59.7	56.7	54.3	47.1	47.3	44.5
12:00 - 13:00	62.7	73.3	61.9	62.8	66.4	65.8	59.8	56.6	54.4	47.2	46.1	42.7
13:00 - 14:00	62.3	69.3	61.5	62.5	66.1	65.2	59.5	56.3	53.8	47.2	46.3	42.1
14:00 - 15:00	62.9	73.7	62.1	63.2	66.2	65.2	59.9	56.8	55.3	48.0	46.3	42.5
15:00 - 16:00	63.4	83.7	62.3	63.3	66.4	65.1	60.8	57.6	55.6	48.6	46.6	41.5
16:00 - 17:00	62.3	72.7	61.5	62.6	65.9	64.1	59.7	56.7	53.9	47.1	45.7	42.5
17:00 - 18:00	62.4	76.0	61.6	62.4	66.1	64.4	59.5	56.6	54.5	47.3	44.5	41.1
18:00 - 19:00	62.3	80.0	61.5	61.9	66.1	64.4	59.4	56.5	54.2	46.9	45.2	42.7
19:00 - 20:00	62.3	67.5	61.6	61.5	66.1	64.3	59.4	56.3	54.5	47.0	44.5	42.1
20:00 - 21:00	62.3	69.5	61.6	61.4	66.2	64.5	59.4	56.4	54.4	46.9	44.2	41.6
21:00 - 22:00	62.5	67.4	61.7	62.0	66.3	64.7	59.3	56.6	54.8	46.9	45.4	43.2
22:00 - 23:00	62.3	70.7	61.5	63.0	66.2	64.6	59.3	56.7	54.0	46.6	45.5	43.5

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	62.7	65.1	61.9	63.0	66.4	64.8	59.6	56.6	55.0	47.1	46.9	45.3
23:15 - 23:30	61.6	78.8	60.7	62.7	64.5	61.8	58.6	55.8	54.7	45.6	45.0	42.5
23:30 - 23:45	58.9	66.5	57.9	61.0	58.3	58.1	55.5	53.0	52.8	45.4	44.9	42.8
23:45 - 00:00	59.9	79.1	58.5	62.1	59.3	58.9	56.2	53.8	54.5	43.8	45.7	44.6
00:00 - 00:15	60.0	63.5	59.4	62.6	60.3	59.1	56.6	53.4	54.9	43.8	44.0	42.2
00:15 - 00:30	58.1	67.3	57.0	61.4	58.3	58.2	55.5	52.5	50.3	43.0	46.1	44.2
00:30 - 00:45	57.5	66.3	56.3	60.9	57.6	58.0	55.3	52.2	48.9	42.5	44.9	42.0
00:45 - 01:00	60.3	70.4	59.7	62.6	61.6	59.1	57.1	53.5	54.9	45.2	43.8	41.6
01:00 - 01:15	60.2	65.5	59.4	62.4	61.0	59.5	56.6	53.5	54.9	45.3	45.9	42.2
01:15 - 01:30	59.6	63.7	58.8	61.8	60.8	58.8	56.4	53.2	53.7	44.5	45.8	44.5
01:30 - 01:45	60.3	62.7	59.6	62.6	61.9	59.5	57.1	53.7	54.8	44.1	43.3	41.8
01:45 - 02:00	59.4	61.8	58.3	61.9	60.1	59.1	56.2	53.1	53.5	43.1	45.1	43.9
02:00 - 02:15	59.3	76.1	57.6	62.6	59.8	59.1	56.0	53.2	53.0	43.8	46.1	44.5
02:15 - 02:30	58.2	63.0	57.2	59.2	58.8	58.5	55.5	52.2	51.7	42.0	40.4	38.2
02:30 - 02:45	59.2	63.6	58.6	60.7	60.4	59.0	56.2	52.9	53.3	44.1	40.7	37.7
02:45 - 03:00	58.7	63.0	57.9	59.4	59.3	58.6	55.9	52.1	52.5	43.4	45.4	44.2
03:00 - 03:15	56.5	77.3	55.2	56.8	55.4	57.6	54.2	51.1	47.2	42.3	44.4	40.5
03:15 - 03:30	59.3	62.9	58.3	60.3	60.3	58.9	56.2	52.8	53.5	43.9	42.5	40.4
03:30 - 03:45	59.2	64.0	58.4	60.5	59.9	58.7	56.1	52.8	53.2	44.1	45.1	43.6
03:45 - 04:00	59.0	62.7	58.4	59.5	58.9	58.6	55.8	52.1	53.5	43.9	43.0	41.1
04:00 - 04:15	60.5	64.1	59.7	61.1	61.5	59.6	56.7	53.5	55.6	44.8	44.4	39.1
04:15 - 04:30	57.9	61.5	56.6	59.4	58.0	58.4	55.1	52.0	50.8	42.5	44.7	43.4
04:30 - 04:45	58.2	61.8	57.3	59.1	58.7	58.5	55.3	52.0	51.3	42.9	45.2	43.7
04:45 - 05:00	58.8	70.8	58.1	60.0	59.5	58.7	55.7	52.7	52.6	43.8	43.5	41.3
05:00 - 05:15	58.9	70.2	57.8	59.8	59.3	58.8	55.6	52.6	53.1	43.5	44.0	42.1
05:15 - 05:30	59.8	70.8	59.1	60.0	62.2	60.2	56.5	53.4	53.6	45.3	42.9	39.9
05:30 - 05:45	59.5	63.0	58.8	59.2	60.9	60.1	56.4	53.5	52.2	46.2	47.5	44.1
05:45 - 06:00	60.3	70.9	59.5	60.4	61.3	60.4	56.9	54.0	53.9	46.2	47.5	44.1
06:00 - 06:15	60.5	64.8	59.8	59.7	61.9	60.4	57.1	54.0	54.2	46.3	48.4	45.6
06:15 - 06:30	59.7	70.9	58.8	58.5	61.6	60.6	56.7	54.2	51.5	45.9	47.6	45.5
06:30 - 06:45	61.9	70.0	61.0	60.7	65.4	62.7	59.1	56.1	54.4	46.9	46.2	44.2
06:45 - 07:00	61.7	75.8	60.9	59.7	65.0	62.5	58.8	56.1	53.6	47.3	48.4	46.0

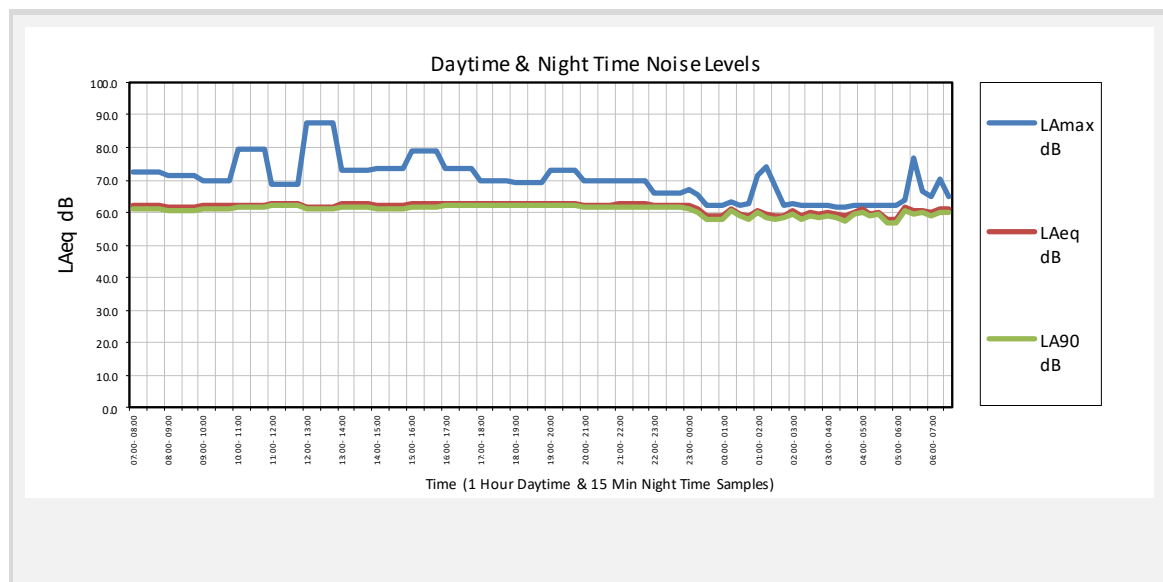


18.3 1st – 2nd February 2026

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.4	87.5	62.0	61.8	65.9	62.9	59.5	56.6	54.8	47.5	47.7	44.6
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	60.2	77.0	58.0	60.3	61.4	59.8	57.1	53.8	53.8	45.4	47.8	44.5

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	62.0	72.3	61.2	60.8	65.3	62.7	59.1	56.1	54.7	47.5	46.2	43.4
08:00 - 09:00	61.4	71.5	60.6	60.2	65.1	62.6	58.7	55.8	52.7	46.6	47.5	45.7
09:00 - 10:00	62.0	69.7	61.2	60.9	65.3	62.8	59.2	56.3	53.9	46.9	48.5	46.0
10:00 - 11:00	62.3	79.4	61.5	61.5	65.7	62.9	59.6	56.3	54.8	47.0	48.2	44.9
11:00 - 12:00	62.9	68.4	62.2	62.5	66.2	63.3	60.1	56.7	56.1	47.5	47.6	44.0
12:00 - 13:00	61.8	87.5	61.0	62.1	65.6	62.8	59.1	56.1	53.4	47.1	49.1	46.2
13:00 - 14:00	62.7	73.1	61.9	62.5	66.2	63.2	59.8	56.6	55.4	48.2	47.3	44.4
14:00 - 15:00	62.1	73.6	61.4	62.2	65.8	62.9	59.2	56.3	54.3	47.2	47.5	44.8
15:00 - 16:00	62.5	79.1	61.5	61.8	65.6	62.8	59.6	56.8	55.1	48.2	47.9	45.4
16:00 - 17:00	62.7	73.7	62.0	62.6	65.9	62.8	59.6	56.8	55.3	49.6	47.8	44.3
17:00 - 18:00	62.7	69.5	62.0	62.6	66.1	62.9	60.0	57.0	55.5	47.4	45.2	40.5
18:00 - 19:00	62.7	69.4	62.1	62.0	66.4	63.1	59.6	57.2	55.1	47.5	48.1	43.8
19:00 - 20:00	62.7	72.9	62.0	62.3	66.5	63.2	59.6	57.2	55.1	47.3	48.0	44.4
20:00 - 21:00	62.4	69.6	61.7	61.5	66.4	63.1	59.4	56.9	54.7	47.1	47.8	44.0
21:00 - 22:00	62.5	69.6	61.9	61.7	66.4	63.1	59.6	56.8	55.0	47.2	47.8	44.4
22:00 - 23:00	62.4	65.8	61.7	61.2	66.1	63.0	59.2	57.0	54.7	47.0	47.7	44.4

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	62.1	67.1	61.4	61.9	65.8	63.2	58.7	56.5	54.3	47.1	48.3	45.5
23:15 - 23:30	61.0	65.3	60.2	60.7	63.9	61.3	58.0	55.7	53.5	44.4	46.6	43.1
23:30 - 23:45	59.2	62.1	57.9	59.7	58.5	59.0	55.8	52.7	53.1	43.8	47.4	44.5
23:45 - 00:00	59.0	62.0	58.0	59.3	58.8	58.8	55.9	52.9	52.6	43.5	46.4	43.2
00:00 - 00:15	58.8	62.1	58.1	59.1	58.6	58.6	55.6	52.7	52.2	44.0	47.4	44.7
00:15 - 00:30	61.2	63.1	60.6	60.7	61.8	59.5	57.7	54.2	56.2	46.5	46.4	42.1
00:30 - 00:45	59.7	62.0	58.9	59.4	59.7	58.8	56.6	53.2	53.6	44.5	48.6	45.8
00:45 - 01:00	58.8	62.5	58.1	58.9	59.0	58.6	56.3	52.5	51.9	44.0	46.2	42.0
01:00 - 01:15	60.6	71.1	59.9	60.6	61.3	59.5	57.7	53.8	55.0	45.5	46.6	42.4
01:15 - 01:30	59.7	74.3	58.3	59.8	59.2	58.5	56.3	52.9	53.0	48.1	50.2	43.5
01:30 - 01:45	59.1	67.9	58.1	59.5	58.6	58.5	56.3	52.3	52.7	45.2	48.0	45.7
01:45 - 02:00	59.1	62.1	58.5	59.1	59.6	58.5	56.5	52.8	52.4	44.1	47.4	44.4
02:00 - 02:15	60.4	62.5	59.7	60.9	61.3	59.1	57.6	53.3	54.8	45.0	47.7	44.3
02:15 - 02:30	59.0	62.3	57.7	59.3	58.7	58.5	55.9	52.4	52.4	44.7	48.5	45.3
02:30 - 02:45	59.8	62.2	58.9	60.0	60.2	59.0	56.7	53.0	53.9	44.6	48.3	45.3
02:45 - 03:00	59.3	61.9	58.4	59.4	59.9	58.6	56.5	52.8	53.0	44.1	47.5	44.2
03:00 - 03:15	59.9	62.0	59.2	60.6	60.4	59.2	56.8	53.2	54.2	44.3	47.0	43.4
03:15 - 03:30	59.6	61.9	58.7	59.9	59.7	59.1	56.3	53.0	53.4	44.4	48.5	46.1
03:30 - 03:45	58.9	61.8	57.6	59.6	58.6	58.7	55.7	52.5	52.6	43.8	48.1	45.5
03:45 - 04:00	60.3	62.0	59.4	60.6	60.6	59.2	57.1	53.6	54.7	44.8	47.4	44.3
04:00 - 04:15	61.1	62.3	60.3	60.9	61.3	59.6	57.6	53.9	56.1	45.7	47.1	43.2
04:15 - 04:30	59.6	62.2	58.8	59.9	58.9	58.8	56.2	53.0	53.7	45.6	48.4	45.7
04:30 - 04:45	60.0	62.2	59.3	60.3	60.4	59.1	57.1	53.4	54.2	45.0	46.6	42.7
04:45 - 05:00	57.7	62.1	56.7	56.9	57.0	57.8	55.1	52.2	48.8	43.8	48.4	46.2
05:00 - 05:15	58.0	62.1	56.7	58.6	57.2	57.9	55.5	52.4	50.0	43.5	47.3	44.0
05:15 - 05:30	61.4	63.6	60.7	61.6	64.2	61.3	58.2	54.4	55.4	46.4	48.0	44.8
05:30 - 05:45	60.7	77.0	59.6	60.5	62.1	60.6	57.7	54.3	54.2	46.2	47.3	44.1
05:45 - 06:00	60.8	66.5	60.0	60.5	62.7	60.7	57.8	54.3	54.5	46.4	47.1	43.3
06:00 - 06:15	60.3	64.9	59.2	61.0	61.9	60.6	57.3	54.2	53.3	46.2	47.2	43.8
06:15 - 06:30	61.0	70.2	60.1	61.6	62.3	60.8	57.7	54.6	54.7	46.8	48.9	45.9
06:30 - 06:45	60.9	64.9	60.1	59.9	64.1	61.6	58.2	55.4	51.9	46.4	48.5	45.5
06:45 - 07:00	63.1	70.8	62.4	63.0	66.0	63.0	60.2	56.8	56.4	48.3	48.1	44.0

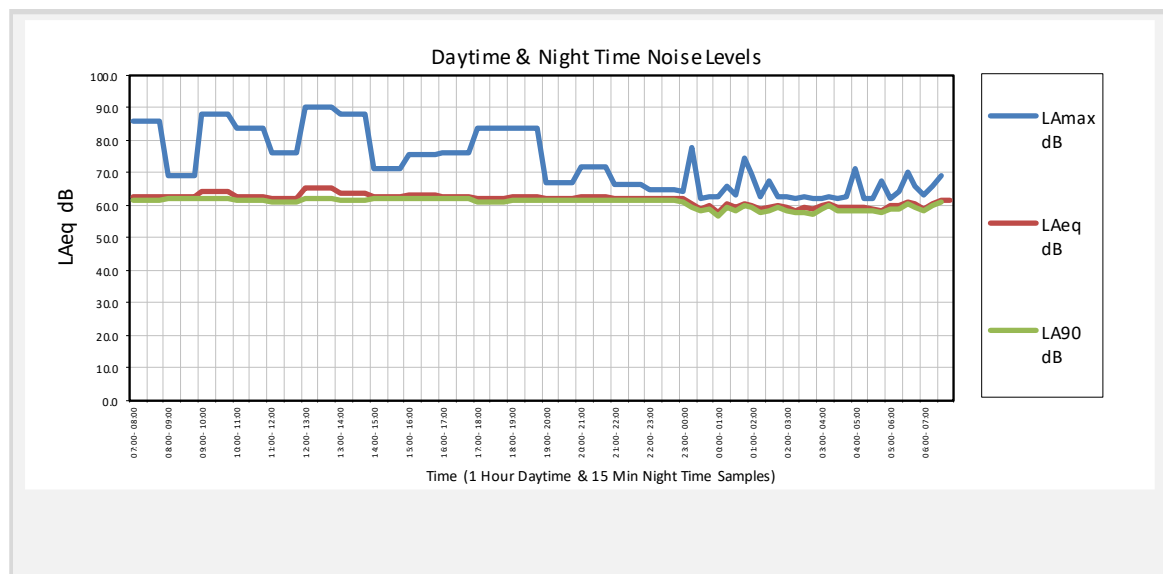


18.4 2nd – 3rd February 2026

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	62.8	90.2	62.0	63.0	66.1	63.0	59.8	56.7	55.5	49.9	47.5	43.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	59.8	77.8	58.0	60.0	60.6	59.6	56.7	53.6	53.4	45.0	45.3	43.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	62.6	85.6	61.7	62.2	65.7	62.7	59.8	56.5	54.8	49.0	50.2	46.2
08:00 - 09:00	62.6	69.3	61.9	62.9	65.9	62.9	59.8	56.6	55.3	47.8	47.8	44.2
09:00 - 10:00	64.0	88.2	62.0	64.2	66.4	63.7	62.0	58.3	56.0	48.9	49.0	44.0
10:00 - 11:00	62.5	83.8	61.6	63.4	65.7	62.6	59.9	56.5	55.1	49.0	48.3	44.0
11:00 - 12:00	61.9	76.3	60.8	62.6	66.1	62.8	59.3	56.1	53.6	46.7	46.8	42.9
12:00 - 13:00	65.1	90.2	61.9	63.4	66.5	63.3	60.2	57.1	59.2	57.1	50.3	43.1
13:00 - 14:00	63.5	87.9	61.6	63.3	66.5	63.2	59.8	56.7	56.6	54.0	48.1	42.9
14:00 - 15:00	62.6	71.2	61.9	63.3	66.2	63.1	59.8	56.6	55.6	47.0	46.0	42.6
15:00 - 16:00	62.8	75.7	62.1	63.9	66.4	63.1	60.0	56.7	56.0	47.0	46.1	42.3
16:00 - 17:00	62.7	76.1	61.8	63.2	66.1	63.0	59.6	56.8	55.6	48.3	46.0	42.0
17:00 - 18:00	62.0	83.4	61.1	63.7	65.7	62.6	59.2	56.4	54.2	46.6	45.9	41.9
18:00 - 19:00	62.3	83.6	61.2	63.0	65.7	62.6	59.4	57.0	54.8	46.7	46.0	42.2
19:00 - 20:00	62.1	66.8	61.3	62.2	66.0	62.9	59.1	56.3	54.7	46.8	45.3	40.7
20:00 - 21:00	62.3	71.6	61.6	62.2	66.2	63.0	59.3	56.5	54.9	46.6	46.7	43.5
21:00 - 22:00	62.0	66.5	61.2	61.6	66.0	62.9	59.2	56.2	54.4	46.6	46.2	42.7
22:00 - 23:00	62.0	64.7	61.2	61.4	66.1	62.8	59.1	56.3	54.1	46.5	46.3	42.9

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	61.9	64.4	61.0	61.7	66.0	62.7	58.7	56.0	54.7	46.6	46.9	44.0
23:15 - 23:30	60.2	77.8	59.1	60.5	60.7	59.2	57.0	53.6	54.5	45.5	46.5	43.6
23:30 - 23:45	59.0	62.2	58.0	59.7	59.2	58.6	56.1	53.0	52.2	44.0	46.4	43.5
23:45 - 00:00	59.7	62.6	58.8	59.6	59.6	59.2	56.4	53.1	54.2	44.4	45.0	42.3
00:00 - 00:15	57.8	62.6	56.7	56.8	56.6	58.1	55.0	52.4	49.4	44.1	46.3	42.6
00:15 - 00:30	60.5	66.0	59.5	59.9	59.4	59.2	56.5	53.3	55.8	45.4	44.0	41.5
00:30 - 00:45	59.1	63.0	58.3	58.9	58.9	58.7	56.0	53.0	52.5	44.8	45.8	43.8
00:45 - 01:00	60.4	74.5	59.6	60.7	60.6	59.5	57.1	53.6	55.2	45.4	44.0	41.6
01:00 - 01:15	60.0	69.8	59.2	59.6	59.8	59.1	56.4	53.4	54.4	47.2	46.3	43.4
01:15 - 01:30	58.5	62.3	57.6	59.3	58.6	58.8	55.9	52.5	51.5	42.8	45.2	43.2
01:30 - 01:45	59.3	67.4	58.1	59.9	59.4	59.1	56.3	53.3	53.0	44.0	44.6	42.7
01:45 - 02:00	60.1	62.7	59.2	60.1	60.4	59.3	56.9	53.3	54.6	44.1	44.3	42.4
02:00 - 02:15	59.0	62.4	58.2	59.7	59.0	58.8	56.1	52.8	52.9	43.3	44.6	42.8
02:15 - 02:30	58.4	62.2	57.4	59.4	58.3	58.8	55.7	52.5	51.7	42.7	43.5	41.4
02:30 - 02:45	59.0	62.3	57.6	60.2	59.3	59.0	56.1	53.0	52.5	43.5	45.4	43.3
02:45 - 03:00	58.6	62.2	57.3	59.4	58.6	58.7	55.9	52.4	51.9	42.9	44.3	42.4
03:00 - 03:15	59.6	62.2	58.6	60.4	59.8	59.0	56.7	53.4	53.7	44.0	44.5	42.7
03:15 - 03:30	60.5	62.5	59.7	60.9	60.5	59.6	57.2	53.6	55.3	45.1	44.4	42.6
03:30 - 03:45	59.2	62.2	58.3	58.7	59.0	58.9	56.2	53.2	52.7	44.4	45.3	43.4
03:45 - 04:00	59.4	62.8	58.3	59.6	58.7	59.2	56.3	53.3	53.2	44.1	44.7	42.5
04:00 - 04:15	59.1	71.2	58.1	59.2	59.3	58.9	56.7	52.5	52.7	43.4	45.3	43.6
04:15 - 04:30	59.3	62.2	58.2	60.7	58.7	59.1	56.2	52.8	53.6	43.6	44.5	42.8
04:30 - 04:45	58.8	62.1	58.0	60.2	58.7	58.9	56.1	52.8	52.1	43.8	45.5	43.3
04:45 - 05:00	58.4	67.4	57.5	59.3	58.0	58.6	55.7	52.5	51.3	43.4	45.8	43.9
05:00 - 05:15	59.9	62.2	58.9	60.6	59.9	59.2	56.9	53.2	54.4	44.4	45.0	42.8
05:15 - 05:30	59.6	64.2	58.7	59.7	61.7	60.2	56.6	53.5	52.5	45.3	45.2	42.8
05:30 - 05:45	60.9	70.2	60.2	61.3	61.9	60.6	57.9	54.5	55.0	46.5	44.5	41.7
05:45 - 06:00	60.3	65.8	59.4	60.3	61.2	60.3	57.5	54.0	53.7	46.2	44.5	41.9
06:00 - 06:15	59.0	63.0	58.2	58.0	59.9	59.6	56.3	53.5	50.6	46.0	45.2	42.8
06:15 - 06:30	60.5	65.9	59.6	60.9	60.6	60.2	57.0	54.4	54.5	47.2	46.1	43.5
06:30 - 06:45	61.5	69.0	60.8	60.1	64.5	61.8	58.7	56.0	53.4	47.5	47.1	44.4
06:45 - 07:00	61.6	66.3	60.8	61.1	65.0	62.0	58.9	56.3	53.2	47.3	46.5	43.6



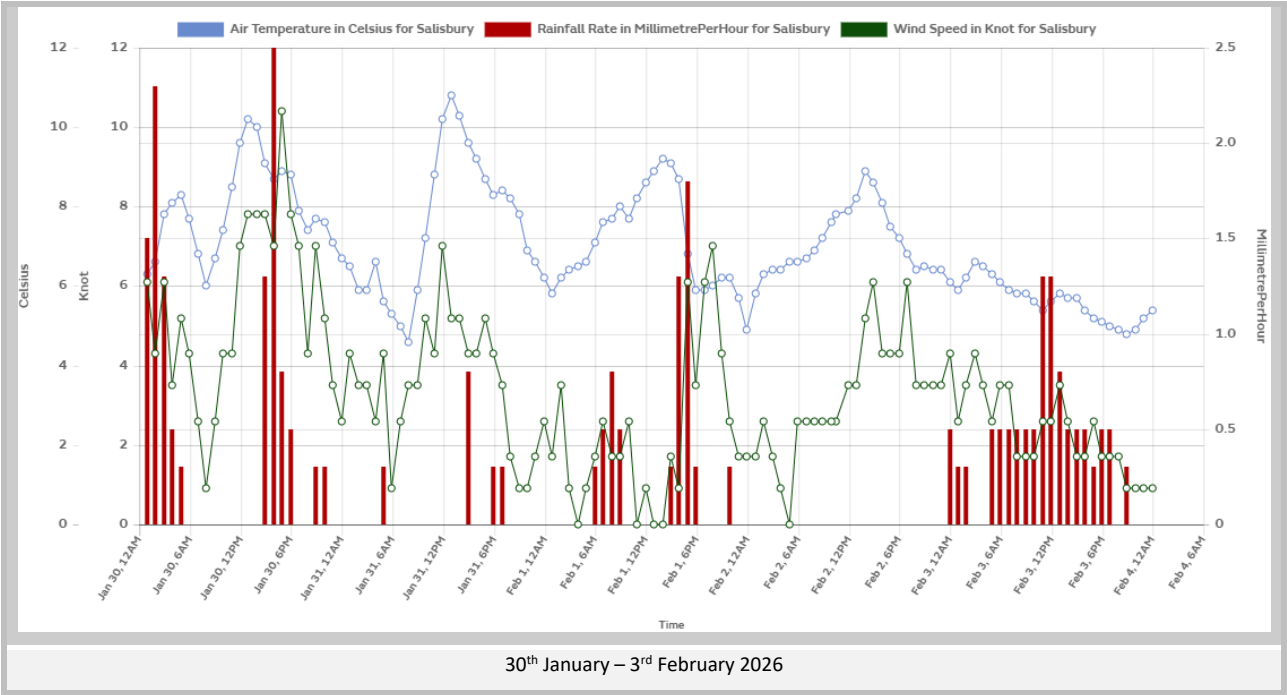
19 APPENDIX B - UNCERTAINTY

In line with the requirements of section 10 of British Standard 4142: 2014 it is expected that the reported expanded uncertainty with a confidence limit of 95% and assuming a convergence of $k=2$ is likely to be $\pm 2.1\text{dB}$. Uncertainty, in this instance has been minimised by undertaking longer background noise measurements over a 96-hour period.

19.1 Uncertainty Budget

Sources of Uncertainty	Uncertainty Notes	Commentary	Value (half Width)	Convert to Same Units (dB)	Distribution Divisor			Standard Uncertainty (u) dB
					Normal	Rectangular	Other	
Measurement Position	Choice of position, ,	1m in 20m		0.2		rect($\sqrt{3}$)		0.13
	microphone orientation	Type 1 0 - 30deg	0.4		Normal			0.50
Instrumentation	Calibration	Calibration Drift	0.1		Normal			0.10
	Accuracy and precision (type 1)	Type 1 practical	1.9			rect($\sqrt{3}$)		0.50
Background Noise Level	Timing of Measurement							
Background Noise Level	Modal Analysis Day	Calculated Standard Deviation	3.7				s/ $\sqrt{n}$	0.39
Background Noise Level	Modal Analysis Night	Calculated Standard Deviation	2.2				s/ $\sqrt{n}$	0.16
Combined Uncertainty (root sum of squares)								1.05
Expanded Uncertainty $U = Kuc$ (95% Confidence $K=2$)								2.1
Final Answer Expressed as Value $\pm U$ dB with a confidence Level of 95%								
REFERENCE: Uncertainty Budget Calculated in line with M3003: The Expression of Uncertainty and Confidence in Measurement Edition 3, November 2012 and A Good Practice Guide on the Sources and Magnitude of Uncertainty Arising in the Practical Measurement of Environmental Noise N J Craven, G Kerry Edition 1a – May 2007.								

20 APPENDIX C - WEATHER CONDITIONS



#END OF REPORT#