ENVIRONMENTAL PERMIT APPLICATION

G Farwell Ltd

Tower View

Crabbswood Lane

Sway, Lymington

Hampshire

SO41 6EQ

NOISE & VIBRATION MANAGEMENT PLAN

DECEMBER 2024

envee

…making business green

1 – SITE DETAILS

The facility is located at Tower View, Crabbswood Lane, Sway, Lymington, Hampshire, SO41 6EQ. Access into the site is via the main entrance off Crabbswood Lane. The site currently comprises of a large hardstanding area for the treatment of waste materials to create aggregate with associated site offices, waste reception area and crushing, screening and storage areas.

1.1 – Tower View Aggregate Recycling Facility

G Farwell Ltd currently operate an exempt facility. Under the permit, the site intends to accept up to 25,000 tonnes of waste per annum. The maximum amount of stored waste will be less than 14,000 tonnes at any one time. Once the waste has been treated by crushing and/or screening, the material will be sold off site as soon as practicable.

1.2 – Noise & Vibration Management Requirements

The preparation of this document has been undertaken using the guidance outlined in the Environment Agency Technical Guidance Note IPPC H3 (Part 2) – Horizontal Guidance for Noise (Part 2). The typical condition regarding noise and vibration on a permit is as follows:

Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable, to minimise the noise and vibration.

2 – NOISE AND VIBRATION

This Noise and Vibration Management Plan addresses the need to manage the potential for noise and vibration from the operations at Tower View that may be considered as an environmental impact and a nuisance to neighbours, neighbouring businesses and operations.

Noise has been defined in various ways, but essentially it is *unwanted* sounds or sound that is not desired by the recipient. The degree of annoyance and stress that can result from exposure to noise is almost impossible to quantify, since responses may vary widely between individuals.

Vibration is the oscillation of a body about a reference point. The number of oscillations per second gives the frequency of vibration (in Hertz). Vibration can be felt as it is transmitted through solid structures directly to the human body.

3 – MANAGEMENT PLAN

This Noise and Vibration Management Plan shall identify sources and potential sources of noise and vibration and shall consider the risk to sensitive receptors. The Noise and Vibration Management Plan has been produced with the intention to reduce as much as possible noise and vibration-causing activities.

This Noise and Vibration Management Plan contains:

- An assessment of the risks of noise and vibration problems, from normal and abnormal situations, including worst case scenarios, for example of weather, temperature or breakdowns and accidents
- The appropriate controls (both physical and management) needed to manage those risks
- Suitable monitoring
- Actions, contingencies and responsibilities when problems arise
- Regular review of the effectiveness of noise and vibration control measures

3.1 – Other Documents

Documents to be viewed in conjunction with the Noise and Vibration Management Plan:

EMS May 2019
H1 Risk Assessment

4 – SENSITIVE RECEPTORS

4.1 – Personnel and Visitors

Personnel/operatives working on site are the closest receptors to any noise and vibration produced on site. However, due to consistent working conditions it may be unlikely that operatives would be particularly sensitive to noise and vibration. All operatives should be made aware of the issue of noise and vibration on site and should be fully conversant with the contents of the EMS and this Noise and Vibration Management Plan.

Personal Protective Equipment (PPE) shall be made available where appropriate.

It is unlikely that noise and vibration from the facility will cause nuisance or distress to visitors to the site. However, all visitors shall be made aware that the

site is a waste treatment facility. PPE shall me made available where appropriate or requested.

4.2 – Neighbours

Neighbouring residents and businesses are likely to be the most sensitive receptors to noise and vibration nuisances. Good relationships with neighbouring landowners and businesses are essential in order to anticipate potential problems and avoid them. Where possible, before official complaints are made. G Farwell Ltd shall ensure:

- that all the neighbours know how to contact the site if they consider noise and/or vibration to be a problem (Contact details will be clearly visible on the site sign along with Environment Agency details)

- that any complaints are recorded and that problems, where possible are dealt with promptly

It is considered unlikely that noise and vibration from Tower View will cause nuisance or distress to neighbours to the site.

4.3 – Protected Areas

There is one Site of Special Scientific Interest within 500 metres of the site. A small area of the New Forest is located to the north of the site just below the 500-metre threshold. This is why the permit application is a bespoke one. No impact on the SSSI is predicted by current or future operations.

5 – NOISE AND VIBRATION CONTROL MEASURES

5.1 – Integrated Pollution Prevention and Control (IPPC) and Best Available Techniques (BAT)

IPPC requires installations to be operated in such a way that all appropriate preventative measures are taken against pollution, in particular through the application of BAT. BAT includes both the technology used and the way in which the installation is designed, built and operated. In deciding what level of control constitutes BAT for a given installation, a number of factors need to be considered and balanced. These include:

- costs and benefits
- the technical characteristics of the installation concerned
- geographical location
- local environmental conditions

BAT, in a general sense or at sector level, will be set out in process- or sector-specific guidance. This guidance note covers in generic terms a range of

abatement technologies, best practice and design features that could, taking the above site-specific criteria into account, form the basis of BAT for a range of situations. In all cases, the specific requirements relating to a particular sector should be reviewed as part of the decision-making process.

5.2 – Indicative BAT for Noise and Vibration

The operator will employ basic good practice measures for the control of noise, including adequate maintenance of any parts of plant or equipment whose deterioration may give rise to increases in noise (for example bearings and specific noise attenuation kit associated with plant or machinery).

The operator shall employ such other noise control techniques necessary to ensure that the noise from the facility does not give rise to reasonable cause for annoyance, in the view of the regulator.

5.3 - Controls

Assuming that all management, operational and maintenance issues have been satisfactorily addressed, once noise has been generated, there are a number of physical factors involved in determining how it is propagated and how much reaches the receiver.

Noise levels at sensitive receptors can be minimised by:

- reduction at source
- ensuring adequate distance between the source and receiver
- the use of barriers between the source and receiver

In determining the degree of control required, it is usual to calculate or measure the sound pressure level close to the source and, knowing the desired endpoint, calculate:

- the attenuation provided by the environment at the sensitive location
- the additional attenuation required

For this waste operation, because plant and machinery are in use, an Industrial Noise Impact Assessment has been conducted. This is included in this document as Appendix A.

Further details of the waste management activities can be found within the EMS.

Pre-acceptance Controls:

- Vehicles and Plant shall be switched off when not in motion or operation.
- Continuing high levels of maintenance of vehicles and plant shall ensure minimal noise and vibration when in operation.
- Good operation site practices.

Acceptance Controls:

- Vehicles and Plant shall be switched off when not in motion or operation.
- Continuing high levels of maintenance of vehicles and plant will ensure minimal noise and vibration when in operation.
- Good operation site practices.

Treatment Controls:

- Vehicles and Plant shall be switched off when not in motion or operation.
- Waste treatment will take place in designated areas.
- Continuing high levels of maintenance of vehicles and plant will ensure minimal noise and vibration when in operation.
- Good operation site practices.

Storage Controls:

- Vehicles and Plant shall be switched off when not in motion or operation.
- Continuing high levels of maintenance of vehicles and plant will ensure minimal noise and vibration when in operation.
- Good operation site practices.

Transfer Controls:

- Vehicles and Plant shall be switched off when not in motion or operation.
- Continuing high levels of maintenance of vehicles and plant will ensure minimal noise and vibration when in operation.
- Good operation site practices.

5.4 – Adverse Weather Conditions

Heavy rainfall: Waste treatment will take place outside so these activities will be carefully monitored. Heavy rainfall may deaden noise and vibration but, affect other aspects of operations.

Strong winds: Waste treatment will take place outside; operations will stop if high winds prevail. Transport of waste and aggregates on-site during high winds should be halted if deemed appropriate by the site supervisor.

Ice/Snow: Should not affect noise and vibration issues.

All Adverse weather conditions will be carefully monitored, and operations modified to maintain safe working conditions.

5.5 – Accident Management

Reference Document: EMS May 2019

Plant breakdown:
On-going maintenance on vehicles and plant shall limit the likelihood of plant failure/breakdown. If plant does breakdown in any way, then it will not be used until a full repair can be carried out by an expert. In this instance, G Farwell Ltd

may utilise other equipment for the duration of the breakdown. Any replacement plant would be of similar technical specifications as the original and it is therefore not anticipated that this would increase noise and vibration compared to normal working conditions.

5.6 – Good Housekeeping

Good housekeeping practises on site to minimise noise and vibration from the site shall include:

- The general maintenance and inspection of the site surface and site boundary, including fences and gates.
- On-going maintenance of all plant, vehicles and equipment to ensure good working order.
- General housekeeping and inspection procedures maintained; cleaning of all surfaces that come into contact with waste (including containers) on a regular basis.
- Adherence to the manufacturer's maintenance schedule and use of only accredited materials mitigates against unforeseen issues.

5.7 – Regular Review of Control Measures

The above noise and vibration control measures shall be reviewed on a regular basis. The control measures shall be reviewed as a matter of course if:

- A complaint is received
- If new plant is brought on site
- If new working procedures are planned
- If additional wastes are to be accepted on site
- Unforeseen issues become routine
- After two years operating

5.8 – Complaints Response

G Farwell Ltd shall have a set procedure for dealing with and responding to complaints. If a noise or vibration complaint is made, then a complaint form will be filled out (see Appendix B) and a note made in the site diary. All complaints shall be dealt with promptly and any appropriate remedial action shall be taken. A noise or vibration complaint will result in:

- Completion of a complaint form
- Source of noise/vibration identified
- Remedial action taken (where possible)
- Complainant notified of remedial action
- Control measures reviewed

6 - MONITORING

6.1 – Monitoring Plan

It is acknowledged that there will be instances throughout the day where there will be some noise and/or vibration generated on site. Inevitably this shall occur during the deposition, sorting and treatment of waste. It is proposed that these occurrences shall be minimised in accordance with the control measures outlined in section 5.3 of this document. It shall be the responsibility of the site supervisor to monitor site operations and ensure that the proposed control measures are being implemented.

6.2 – Noise and Vibration Records

G Farwell Ltd shall keep records of site inspections. Any adverse operating conditions, non-conformances, complaints and mitigation/management failure resulting in an accident or non-compliance with the Permit shall be recorded in the site diary.

APPENDIX A – INDUSTRIAL NOISE IMPACT ASSESSMENT

REPORT REFERENCE:

SA – 7903-4

INDUSTRIAL NOISE IMPACT ASSESSMENT

British Standard 4142:2014+A1:2019

CLIENT:

G. Farwell LTD

SITE:

Crabbswood Lane

Sway

Lymington

Hampshire

SO41 6EQ

SURVEY DATE:

22nd – 27th October 2024

Report By

Mr. B. J. Scrivener MIOA.

Sound Advice Acoustics Ltd

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Tel: 02380 641357

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1 EXECUTIVE SUMMARY

1.1 Instruction

Sound Advice Acoustics Ltd have been instructed G Farwell Ltd to undertake a background noise survey at the existing premises at Crabbswood Lane, Sway, Hampshire, SO41 6EQ to understand the level of impact at the existing site in relation to the operations currently being undertaken within the application boundary.

1.2 Scope of Report

The measurements have been undertaken in accordance with British Standard 4142:2014+A1:2019 and ISO 1996 – Part 2: 2017 to establish if the proposed site has a demonstrable adverse effect in terms of noise that outweigh the benefits of the development. This report aims to establish the following:

- Existing background noise levels at the residential façade (L_{A90});
- Noise levels from the Existing Plant operations within the Green Line Boundary (L_{Aeq});
- Impact on the nearest noise sensitive property.
- Mitigation Levels if Required

1.3 Measured Background Noise Levels

The representative background noise measurements after the recycling centre had closed were undertaken between 17th to 23rd October 2024 at the Assessment Positions 1 & 2. The day time background noise levels between 07:00 and 17:00 was found to be $L_{A90,1\ hour}$ 33 dB for Position 1 and $L_{A90,1\ hour}$ 35 dB for Position 2. No operations occur outside of these hours.

Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 1	$L_{A90\ 1\ HOUR}$ 33 dB
Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 2	$L_{A90\ 1\ HOUR}$ 35 dB

1.4 Existing Operations

Various noise sources have been monitored on the existing site during typical day's operations in order to allow a working 3D model to be generated and to replicate the noise levels recorded at the assessment position.

1.5 Operational Hours

The business operational hours are Monday to Friday 07:00 to 17:00 hrs.

1.6 Assessments

1.6.1 Position 1 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,1\ hour}$	26 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	32 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1\ hour}$	33 dB	8.1	Modal Background Noise Level
Assessment Level	-1 dB	11	The background level is subtracted from the rating level.
Assessment	-1 dB		
Conclusion	The assessment level is 'Low Impact'		

1.6.2 Position 2 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,15\ MINUTES}$	30 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	36 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15\ MINUTES}$	35 dB	8.1	Modal Background Noise Level
Assessment Level	+1 dB	11	The background level is subtracted from the rating level.
Assessment	+1 dB		
Conclusion	The assessment level is 'Low Impact'		
Planning Conditions 26 – 29	Achieved		

The background noise levels were measured at the equivalent position, chosen as it most represented the closest noise sensitive façade, located within the existing garden area between 17th to 23rd October 2024.

It can be seen from the above assessments that with all plant operating as normal, an assessment conclusion of Low Impact could be expected. Therefore, no further mitigation measures are required at this stage and BS 4142: 2014 +A1:2019 is being adhered to.

1.7 NPPF 2023

National Planning Policy Framework 2023 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.

1.8 Planning Approval Recommendation

Based on the calculations and assessments made within this report it is the professional opinion of Sound Advice Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2023, NPPF & NPSE and that, with regards to sound, planning permission can be granted.

2 INTRODUCTION

2.1 Instruction

Sound Advice Acoustics Ltd have been instructed G Farwell Ltd to undertake a background noise survey at the existing premises at Crabbswood Lane, Sway, Hampshire, SO41 6EQ to understand the level of impact at the existing site in relation to the operations currently being undertaken within the application boundary. This assessment has been updated to a full BS 4142 assessment at the request of the council together with new source measurements of the existing operations as this has changed significantly since our last set of source measurements.

The purpose of this assessment is to ensure the acoustic protection of noise sensitive premises closest to the proposed new kitchen extract. Noise sensitive premises are not restricted to residential dwellings as offices can be affected by unwanted external noise. However, the residential to the north west and south west have been identified as the nearest noise sensitive and therefore all calculations and assessments are to be made to these positions.

2.2 Ambient and Background Measurements

External noise levels are to be recorded over, what has been considered for the site, an average / typical time period in order to assess the daytime noise levels. Levels have been recorded over more than one day in order to ensure the uncertainty of measurement aspects of BS 4142:2014+A1:2019 have been satisfied and that the data recorded is representative for the purpose of a robust assessment.

2.3 BS 4142: 2014+A1:2019

British Standard 4142:2014+A: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 proposed acoustic impact the proposed kitchen extract 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, once remedial works are completed. BS 4142:2014+A1:2019 supersedes the 2014 version and has been developed to move more in-line with The National Planning Policy Framework 2023 (NPPF) and the Noise Policy Statement for England 2010 (NPSE).

2.4 National Planning Policy Framework 2023 & Noise Policy Statement for England 2010

References and evaluations are to be made to the National Planning Policy Framework 2023 (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.

2.5 "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:

2.6 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.

2.7 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.

2.8 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.

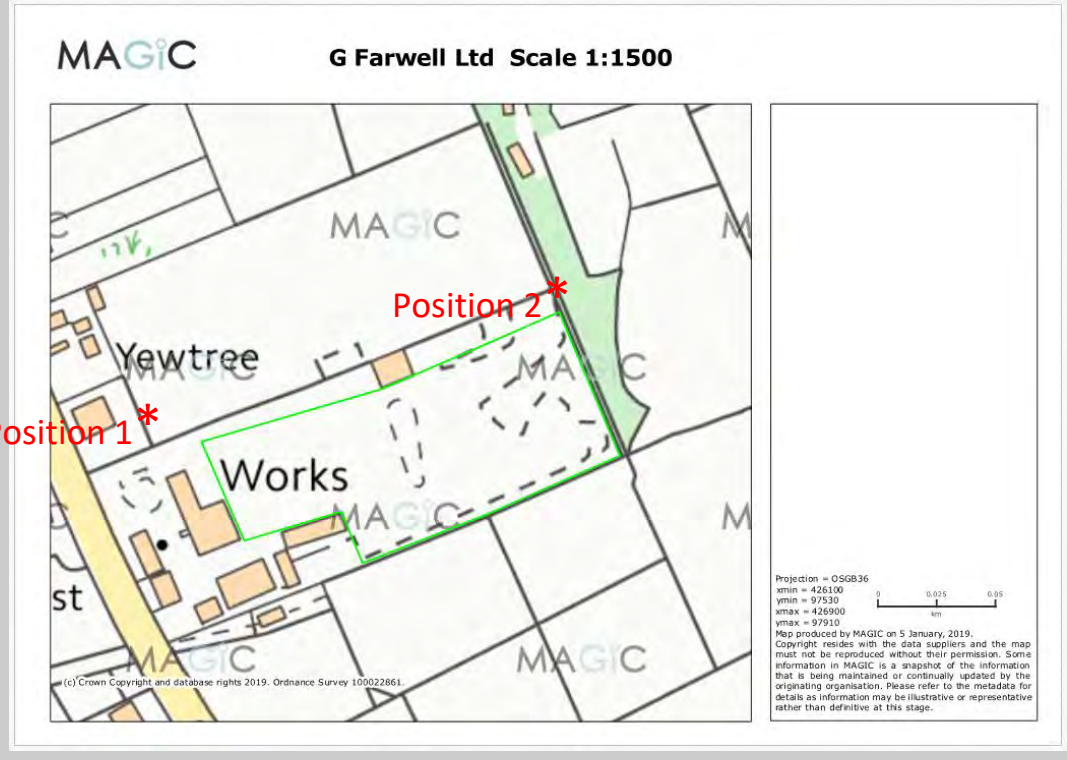
3 SITE LOCATION

3.1 Position of Site in Wider Area

The site is located in Sway.

3.2 Assessment Position and Background Position

Continuous measurement was undertaken at the assessment position between 17th – 23rd October 2024. Measurements were undertaken at the front and rear of the site at assessment positions 1 and 2 in order to capture the operational noise levels and lowest background noise levels.



Green Line Boundary

4 BACKGROUND NOISE LEVELS

4.1 Position 1

4.2 17th - 18th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	56.6	88.1	51.0	63.3	58.7	55.2	50.7	51.3	50.2	45.4	43.9	30.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	43.0	80.6	20.0	50.0	45.9	40.4	38.0	38.3	35.2	31.7	32.7	13.0

4.3 18th - 19th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	59.1	84.2	51.0	64.3	59.7	56.3	53.4	54.1	53.5	46.2	42.9	20.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	48.1	80.7	34.0	41.6	40.5	41.5	42.6	41.5	41.2	39.9	39.9	19.6

4.4 19th - 20th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	46.3	81.8	33.0	46.2	44.0	39.3	35.2	34.2	32.0	41.0	43.3	18.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	41.9	71.9	24.0	43.7	41.8	40.3	37.1	35.5	33.9	32.0	34.5	14.6

4.5 20th - 21st October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	48.4	71.8	39.0	48.3	44.9	43.9	43.1	42.7	41.5	38.9	39.7	18.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	50.6	82.6	24.0	54.1	51.2	47.9	44.5	45.1	44.2	38.7	41.6	16.9

4.6 21st - 22nd October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	56.9	93.8	52.0	62.7	58.4	55.6	50.7	51.2	51.3	45.3	42.4	20.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	57.1	92.1	21.0	60.3	54.1	52.2	51.1	52.6	51.3	45.7	41.2	17.4

4.7 22nd - 23rd October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	57.4	84.5	52.0	64.5	59.0	56.1	52.0	52.0	51.0	46.3	43.2	22.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	52.7	83.7	21.0	58.3	55.2	51.3	46.7	47.7	46.1	40.7	38.4	16.0

4.8 Position 2

4.9 17th - 18th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	51.7	82.9	43.0	53.9	49.3	47.8	46.5	45.8	45.9	42.3	34.9	22.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	30.8	61.9	20.0	39.2	32.9	29.0	27.7	25.7	23.0	19.1	15.9	10.3

4.10 18th - 19th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	47.8	75.3	41.0	57.3	50.3	45.2	43.2	41.2	40.9	39.2	35.4	26.1
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	52.3	76.8	41.0	59.9	49.6	45.2	45.0	44.8	46.4	46.0	40.1	32.4

4.11 19th - 20th October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	39.1	68.5	36.0	44.9	42.6	38.2	35.0	32.5	31.6	29.8	27.4	15.0
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	48.5	70.1	44.0	60.6	49.5	43.9	42.6	40.8	41.8	41.3	37.4	30.0

4.12 20th - 21st October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	56.1	81.4	45.0	69.2	59.4	52.5	50.7	49.1	49.4	48.2	42.9	34.8
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	40.9	68.8	27.0	52.8	43.3	38.0	35.9	34.1	33.9	33.0	28.7	20.9

4.13 21st - 22nd October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	46.1	78.8	40.0	51.0	47.9	45.1	42.2	39.7	39.3	35.9	31.8	19.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	34.4	64.4	21.0	41.0	37.4	34.2	31.8	29.4	26.2	17.3	15.7	10.3

4.14 22nd - 23rd October 2024

NOISE LEVEL SUMMARY ASSESSMENT			Octave Band Centre Frequency (Hz)									
Date / Time	LAeq	LA90	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LA90 1 HOUR & Corresponding LAeq 1 HOUR	50.5	76.6	45.0	54.3	48.8	47.0	46.4	44.5	44.2	41.0	34.5	28.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	32.3	61.9	21.0	39.7	35.1	31.5	29.3	28.0	24.5	14.4	11.7	9.9

The representative background noise measurements after the recycling centre had closed were undertaken between 17th to 23rd October 2024 at the Assessment Positions 1 & 2. The day time background noise levels between 07:00 and 17:00 was found to be $L_{A90,1\ hour}$ 33 dB for Position 1 and $L_{A90,1\ hour}$ 35 dB for Position 2. No operations occur outside of these hours.

Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 1	$L_{A90\ 1\ HOUR}$ 33 dB
Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 2	$L_{A90\ 1\ HOUR}$ 35 dB

5 APPARATUS

5.1 Equipment Calibration

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 x 10-5 Nm-2 before and after the tests and the equipment set to have no inaccuracy greater than 0.2 dB.

All the following equipment was calibrated in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service (UKAS) on the following dates. Calibration schedules are implemented within Sound Advice Acoustics Ltd in accordance with UKAS directive LAB 23.

5.2 Position 1

Description	Make	Type	Serial No.	Calibration Intervals	Cert No.	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	118	31471	2 YEARS	TCRT23-1042	15.01.2024	15.01.2026
12.5mm Microphone (with windshield)	GRAS	40AF	114650	2 YEARS		15.01.2024	15.01.2026
Microphone Pre – Amplifier	Norsonic	1206	30327	2 YEARS		15.01.2024	15.01.2026

5.3 Position 2

Description	Make	Type	Serial No.	Calibration Intervals	Cert No.	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Rion	Nl-52	242696	2 Years	TCRT23-1453	23.06.2023	23.06.2025
Microphone (With Windshield)	Rion	Uc-59	6178	2 Years		23.06.2023	23.06.2025
Microphone Pre – Amplifier	Rion	Nh-25	32724	2 Years		23.06.2023	23.06.2025

The noise meter was calibrated before and after the assessment period and found to be within the tolerance of the manufacturer's guidance. Full Calibration certificates are available upon request.

6 CALCULATIONS

6.1 Existing Operations

Various noise sources have been monitored on the existing site during typical day's operations in order to allow a working 3D model to be generated with the following elements recorded and replicated on the 3D Model as the existing noise sources.

6.1.1 Recorded Sound Pressure Levels

Recorded Sound Pressure Level Activity	Duration	LAeq	Octave Band Centre Frequency (Hz)								
			63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
2 x Lorries @ 2m	Whole Hour	72.2	73.6	70.6	67.8	66.3	67.6	65.6	62.5	57.4	50.7
Crusher @ 5m	10min / Hour	72.5	74.5	73.6	69.3	70.8	68.3	63.9	57.5	51.9	46.6
Loader @ 5m	Whole Hour*	75.7	75.9	73.3	73.8	72.2	71.3	67.4	65.6	59.3	50.7
Soil Screener @ 5m	20 / Day	72.3	81.3	74.2	70.7	70.1	67.1	64.8	59.7	54.6	47.1
*Crusher is only used for a few hours in one day per typical month											

6.1.2 Time Corrected Sound Pressure Levels

Time Corrected Sound Pressure Level Activity	Duration	LAeq	Octave Band Centre Frequency (Hz)								
			63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
2 x Lorries @ 2m	Whole Hour	29.4	30.8	27.8	25	23.5	24.8	22.8	19.7	14.6	7.9
Crusher @ 5m	10min / Hour	72.5	74.5	73.6	69.3	70.8	68.3	63.9	57.5	51.9	46.6
Loader @ 5m	Whole Hour*	67.9	68.1	65.5	66	64.4	63.5	59.6	57.8	51.5	42.9
Soil Screener @ 5m	20 / Day	72.3	81.3	74.2	70.7	70.1	67.1	64.8	59.7	54.6	47.1
*Crusher is only used for a few hours in one day per typical month											

6.1.3 Time Corrected Sound Power Levels

Therefore, the following operational sound power levels have been calculated

Sound Power Level Activity	Duration	LAeq	Octave Band Centre Frequency (Hz)								
			63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
2 x Lorries	Whole Hour	54.4	55.8	52.8	50.0	48.5	49.8	47.8	44.7	39.6	32.9
Crusher	10min / Hour	97.5	99.5	98.6	94.3	95.8	93.3	88.9	82.5	76.9	71.6
Loader	Whole Hour*	92.9	93.1	90.5	91.0	89.4	88.5	84.6	82.8	76.5	67.9
Soil Screener	20 / Day	89.3	98.3	91.2	87.7	87.1	84.1	81.8	76.7	71.6	64.1
*Crusher is only used for a few hours in one day per typical month											

6.2 Existing Operations Model

The following CADNA A models demonstrate the operational noise levels are concurrent with the recorded noise levels at the boundary of the premises during operational times.

6.2.1 Inputted Noise Levels

Sound Levels (local)

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Name	ID	Type	Oktave Spectrum (dB)											Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Lorries	Lorries	Li		0.0	55.8	52.8	50.0	48.5	49.8	47.8	44.7	39.6	54.4	59.7	
Crusher	Crusher	Li		0.0	99.5	98.6	94.3	95.8	93.3	88.9	82.5	76.9	97.6	104.1	
Loader	Loader	Li		0.0	93.1	90.5	91.0	89.4	88.5	84.6	82.8	76.5	93.0	98.1	
SoilScreener	SoilScreener	Li		0.0	98.3	91.2	87.7	87.1	84.1	81.8	76.7	71.6	89.6	99.8	

Inputted Noise levels

6.2.2 Calculated Model

PROPOSED OPERATIONS

6.3 3D Views

3D VIEW

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

7 BRITISH STANDARD 4142:2014+A1:2019

7.1 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.

7.2 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 1st 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.

7.3 Assessment Position

The assessment position 1 was established as the residential accommodation premises nearby to the north west and south west of the existing site.

7.4 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.

a) Subjective method
b) Objective method (for tonality)
c) Reference method

7.5 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

7.6 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

7.7 Assessments

7.7.1 Position 1 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,1\ hour}$	26 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	32 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1\ hour}$	33 dB	8.1	Modal Background Noise Level
Assessment Level	-1 dB	11	The background level is subtracted from the rating level.
Assessment	-1 dB		
Conclusion	The assessment level is 'Low Impact'		

7.7.2 Position 2 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,15\ MINUTES}$	30 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	36 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15\ MINUTES}$	35 dB	8.1	Modal Background Noise Level
Assessment Level	+1 dB	11	The background level is subtracted from the rating level.
Assessment	+1 dB		
Conclusion	The assessment level is 'Low Impact'		
Planning Conditions 26 – 29	Achieved		

7.8 Assessment Conclusion

The background noise levels were measured at the equivalent position, chosen as it most represented the closest noise sensitive façade, located within the existing garden area between 17th to 23rd October 2024.

It can be seen from the above assessments that with all plant operating as normal, an assessment conclusion of Low Impact could be expected. Therefore, no further mitigation measures are required at this stage and BS 4142: 2014 +A1:2019 is being adhered to.

8 NPPF & NPSE

The National Planning Policy Framework 2023 (NPPF) and assessments to the Noise Policy Statement for England 2010 (NPSE) should be made in conjunction with each other. Paragraphs 191 - 194 of the National Planning Policy Framework 2023 (NPPF) states the following:

Paragraph 191 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 192 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 193 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 194 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.

9 CONCLUSIONS

9.1 Measured Background Noise Levels

The representative background noise measurements after the recycling centre had closed were undertaken between 17th to 23rd October 2024 at the Assessment Positions 1 & 2. The day time background noise levels between 07:00 and 17:00 was found to be $L_{A90,1\ hour}$ 33 dB for Position 1 and $L_{A90,1\ hour}$ 35 dB for Position 2. No operations occur outside of these hours.

Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 1	$L_{A90\ 1\ HOUR}$ 33 dB
Daytime Equivalent Existing Background Noise Levels	Measured Levels at Assessment Position 2	$L_{A90\ 1\ HOUR}$ 35 dB

9.2 Existing Operations

Various noise sources have been monitored on the existing site during typical day's operations in order to allow a working 3D model to be generated and to replicate the noise levels recorded at the assessment position.

9.3 Operational Hours

The business operational hours are Monday to Friday 07:00 to 17:00 hrs.

9.4 Assessments

9.4.1 Position 1 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,1\ hour}$	26 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	32 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,1\ hour}$	33 dB	8.1	Modal Background Noise Level
Assessment Level	-1 dB	11	The background level is subtracted from the rating level.
Assessment	-1 dB		
Conclusion	The assessment level is 'Low Impact'		

9.4.2 Position 2 - Daytime (07:00 – 17:00).

Item	Calculation	Clause	Commentary
Specific Noise Level $L_{Aeq,15\ MINUTES}$	30 dB	7	Calculated using ISO 9613:1996[3].
Intermittency	+3 dB	8.1	Intermittency Characteristic
Impulsivity	+3 dB	8.1	Impulsive Characteristic
Rating Level	36 dB	9.1	The acoustic feature correction is added to the specific noise level
Background Noise Level $L_{A90,15\ MINUTES}$	35 dB	8.1	Modal Background Noise Level
Assessment Level	+1 dB	11	The background level is subtracted from the rating level.
Assessment	+1 dB		
Conclusion	The assessment level is 'Low Impact'		
Planning Conditions 26 – 29	Achieved		

The background noise levels were measured at the equivalent position, chosen as it most represented the closest noise sensitive façade, located within the existing garden area between 17th to 23rd October 2024.

It can be seen from the above assessments that with all plant operating as normal, an assessment conclusion of Low Impact could be expected. Therefore, no further mitigation measures are required at this stage and BS 4142: 2014 +A1:2019 is being adhered to.

9.5 NPPF 2023

National Planning Policy Framework 2023 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.

9.6 Planning Approval Recommendation

Based on the calculations and assessments made within this report it is the professional opinion of Sound Advice Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2023, NPPF & NPSE and that, with regards to sound, planning permission can be granted.

10 APPENDIX A – UNCERTAINTY BUDGET

10.1 Scope

British Standard 4142:2014+A1:2019 entitled *"Uncertainty"* requires the following:

> *"Consider the level of uncertainty in the data and associated calculations. Where the level of uncertainty could affect the conclusion, take reasonably practicable steps to reduce the level of uncertainty. Report the level and potential effects of uncertainty.*

Annex B of British Standard 4142:2014+A1:2019 entitled "consideration of uncertainty and good practice for reducing uncertainty" makes reference to the University of Salford publication entitled "A Good Practice Guide on the Source and Magnitude of Uncertainty arising in the Practical Measurement of Environmental Noise" edition 1a dated May 2007.

10.2 Uncertainty of Measured Values

Ref	Source of Uncertainty Section 10.2 British Standard 4142:2014+A1:2019	Value dB(A)	Distribution (Divisor)	Uncertainty dB(A)
a	Variability and complexity of sound source	0.50	$\sqrt{2}$	0.35
b	Variability and complexity of residual sound	0.00	$\sqrt{3}$	0.00
c	Residual sound present in specific sound	0.00	$\sqrt{3}$	0.00
d	Background noise position selection	0.10	$\sqrt{3}$	0.06
e	Distance between source and receiver	0.15	$\sqrt{2}$	0.11
f	Number of measurements taken (5 Days)	0.10	$\sqrt{3}$	0.06
g	Measurement time interval variation	0.00	$\sqrt{2}$	0.00
h	Range of times measurements taken	0.10	$\sqrt{3}$	0.06
i	Suitable weather conditions during measurements	0.20	$\sqrt{3}$	0.12
j	Application of British Standard 4142:2014+A1:2019	0.10	$\sqrt{2}$	0.07
k	Rounding of each measurement	0.05	$\sqrt{3}$	0.03
l	Instrumentation – Calibration	1.20	$\sqrt{3}$	0.69
Reported Expanded Uncertainty (95% confidence, convergence k = 2)				1.61

10.3 Uncertainty in Calculations

Ref	Source of Uncertainty Section 10.2 British Standard 4142:2014+A1:2019	Value dB(A)	Distribution (Divisor)	Uncertainty dB(A)
a	Impact of measured sound level on calculations	0.00	$\sqrt{2}$	0.00
b	Assumption on sound power level of source	0.00	$\sqrt{3}$	0.00
c	Uncertainty of calculation method (ISO 9613)	0.20	$\sqrt{3}$	0.12
d	Model fit against real world conditions	0.10	$\sqrt{3}$	0.06
e	Error in the calculation process	0.15	$\sqrt{2}$	0.11
Reported Expanded Uncertainty (95% confidence, convergence k = 2)				0.33

10.4 Uncertainty from Other Factors

Ref	Source of Uncertainty Section 10.2 British Standard 4142:2014+A1:2019	Value dB(A)	Distribution (Divisor)	Uncertainty dB(A)
a	Standing waves or interference patterns	0.15	$\sqrt{3}$	0.09
b	Approximation of sound source to a point source	0.10	$\sqrt{3}$	0.06
c	Maintenance and repair of source over 15 years	0.50	$\sqrt{3}$	0.29
Reported Expanded Uncertainty (95% confidence, convergence k = 2)				0.61

10.5 Combined Reported Expanded Uncertainty

Ref	Source of Uncertainty Section 10.2 British Standard 4142:2014+A1:2019	Value dB(A)	Distribution (Divisor)	Uncertainty dB(A)
a	Section 7.1.2. Uncertainty of measured values	2.7	$\sqrt{2}$	1.14
b	Section 7.1.3. Uncertainty of calculations	2.7	$\sqrt{2}$	0.23
c	Section 7.1.4. Uncertainty from other factors	2.7	$\sqrt{2}$	0.43
Combined Reported Expanded Uncertainty (95% confidence, convergence k = 2)				2.55

It should be noted that the uncertainty calculations have assumed a Type B uncertainty.

11 APPENDIX B – RESULTS

11.1 Position 1

11.2 17th – 18th October 2024

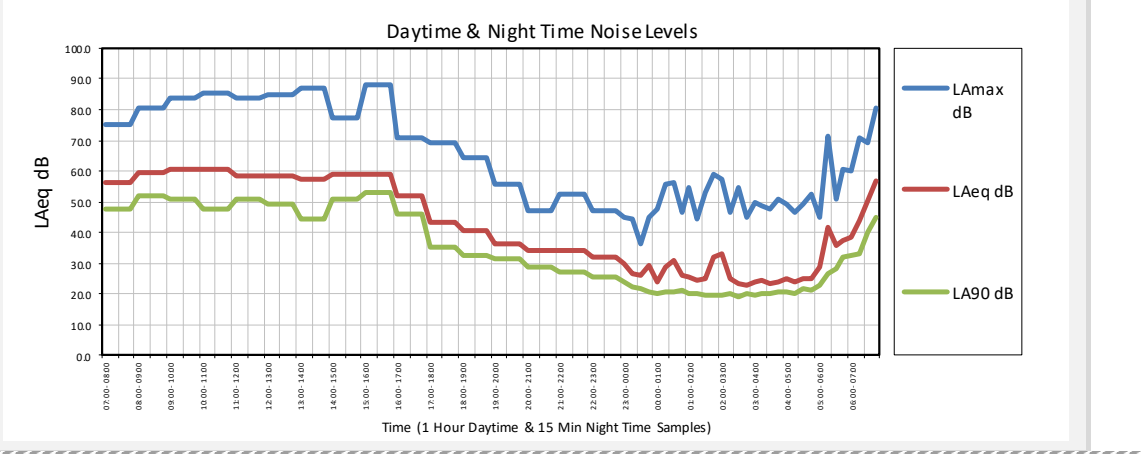
NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR &Cor r esponding LAmax 16 HOUR	56.6	88.1	51.0	63.3	58.7	55.2	50.7	51.3	50.2	45.4	43.9	30.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR &Cor r esponding LAmax 8 HOUR	43.0	80.6	20.0	50.0	45.9	40.4	38.0	38.3	35.2	31.7	32.7	13.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES

				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	56.5	75.1	48.0	63.8	58.0	53.5	50.1	51.7	50.0	44.3	44.7	20.1
08:00 - 09:00	59.7	80.6	52.0	63.6	62.1	58.5	53.9	54.7	53.3	47.8	43.0	20.4
09:00 - 10:00	60.7	83.6	51.0	65.8	62.4	59.2	54.0	55.1	55.1	49.6	47.1	22.6
10:00 - 11:00	60.5	85.6	48.0	66.2	60.3	56.6	53.3	55.5	54.8	49.9	47.4	23.2
11:00 - 12:00	58.4	83.7	51.0	66.7	62.1	58.3	52.9	52.9	51.3	46.8	43.7	21.5
12:00 - 13:00	58.5	85.1	49.0	63.5	60.3	56.4	51.1	52.7	51.8	48.3	50.0	42.6
13:00 - 14:00	57.1	87.0	44.0	60.9	56.4	53.9	51.8	52.8	50.0	44.9	45.3	20.6
14:00 - 15:00	58.7	77.3	51.0	63.9	62.3	58.5	53.3	53.4	52.0	47.0	43.8	22.3
15:00 - 16:00	59.2	88.1	53.0	69.7	61.9	58.6	55.0	52.9	52.5	48.5	43.3	22.0
16:00 - 17:00	52.0	71.0	46.0	60.6	56.0	53.4	47.4	44.2	43.5	40.7	44.0	17.6
17:00 - 18:00	43.4	69.4	35.0	50.5	47.5	41.0	35.9	36.8	34.5	33.7	37.7	13.9
18:00 - 19:00	40.8	64.6	33.0	45.6	42.0	37.9	33.0	33.6	29.3	35.7	33.5	12.3
19:00 - 20:00	36.3	55.9	31.0	46.6	43.7	35.6	32.1	32.3	26.9	19.0	15.3	11.4
20:00 - 21:00	34.1	47.0	29.0	42.3	40.0	33.7	30.5	30.6	23.3	14.0	13.4	11.3
21:00 - 22:00	34.0	52.3	27.0	40.1	36.7	34.5	30.0	30.8	24.0	14.6	13.2	11.3
22:00 - 23:00	32.1	46.9	25.0	39.4	36.2	32.7	28.9	28.4	21.0	14.3	13.4	11.4

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES

				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	29.8	45.1	24.0	38.6	36.4	29.8	26.0	25.9	18.8	13.8	12.5	11.3
23:15 - 23:30	26.6	44.6	22.0	34.0	27.9	26.1	22.5	23.3	16.2	13.1	12.6	11.3
23:30 - 23:45	25.9	36.3	22.0	33.2	26.8	25.5	22.5	21.9	15.8	13.0	12.6	11.3
23:45 - 00:00	29.5	44.8	21.0	36.1	28.2	26.1	26.9	26.1	20.2	13.1	12.7	11.3
00:00 - 00:15	23.7	47.6	20.0	31.9	28.0	21.2	17.7	19.5	14.4	13.3	14.0	11.3
00:15 - 00:30	29.0	55.5	21.0	33.8	30.4	28.5	23.8	19.6	23.8	20.7	12.8	11.3
00:30 - 00:45	31.1	56.4	21.0	40.9	34.8	31.0	24.8	25.7	24.8	19.7	15.7	11.3
00:45 - 01:00	26.1	46.3	21.0	32.4	28.0	27.1	27.2	17.5	13.3	13.1	13.5	11.3
01:00 - 01:15	25.4	54.9	20.0	33.5	29.2	24.8	19.6	19.2	13.5	13.5	21.2	11.4
01:15 - 01:30	24.3	44.4	20.0	32.1	29.8	22.2	18.3	19.9	15.8	14.4	13.8	11.3
01:30 - 01:45	25.2	53.2	20.0	31.8	31.9	19.8	14.2	14.8	18.8	19.5	14.2	11.3
01:45 - 02:00	32.1	58.9	20.0	30.0	30.0	19.4	21.0	31.5	19.4	19.9	18.2	11.5
02:00 - 02:15	33.0	57.2	19.0	29.3	28.1	19.8	13.7	24.8	27.1	28.1	15.7	11.3
02:15 - 02:30	25.2	46.3	20.0	31.6	31.6	28.3	22.2	16.5	14.8	15.1	13.1	11.3
02:30 - 02:45	23.5	54.9	19.0	30.8	27.5	19.7	15.9	15.7	16.4	17.1	13.8	11.4
02:45 - 03:00	22.9	45.0	20.0	30.4	30.7	20.0	16.3	16.4	15.1	14.7	13.8	11.3
03:00 - 03:15	23.7	49.7	20.0	29.0	30.5	18.9	17.2	17.0	16.1	16.2	14.6	11.4
03:15 - 03:30	24.5	48.8	20.0	30.6	32.2	23.8	18.3	16.9	16.3	16.4	14.6	11.4
03:30 - 03:45	23.5	47.8	20.0	32.3	31.0	23.0	17.6	16.0	14.6	15.3	14.2	11.4
03:45 - 04:00	24.1	50.7	20.0	33.0	31.4	20.1	18.1	17.8	16.4	15.6	14.3	11.4
04:00 - 04:15	25.2	49.3	21.0	32.2	31.2	20.1	18.7	18.6	17.7	18.0	15.2	11.4
04:15 - 04:30	24.1	46.4	20.0	31.2	29.2	19.5	18.2	18.7	16.2	15.6	14.2	11.4
04:30 - 04:45	25.0	49.3	22.0	33.9	31.0	21.7	19.4	19.4	16.5	16.4	14.9	11.4
04:45 - 05:00	25.1	52.6	21.0	32.5	29.7	20.1	18.2	19.2	18.2	17.1	15.2	11.4
05:00 - 05:15	28.9	45.1	23.0	37.5	37.1	33.0	25.4	21.0	17.0	16.5	14.6	11.4
05:15 - 05:30	41.6	71.5	27.0	49.9	42.9	37.5	35.1	37.6	35.4	28.2	23.5	11.8
05:30 - 05:45	35.5	51.0	28.0	41.0	35.4	31.2	31.8	32.5	26.4	19.2	16.7	11.4
05:45 - 06:00	37.5	60.6	32.0	47.8	43.6	36.2	33.0	33.7	28.3	22.3	17.5	11.5
06:00 - 06:15	38.3	60.0	33.0	45.4	41.3	36.3	33.6	34.9	30.5	21.4	17.6	11.5
06:15 - 06:30	44.1	70.6	33.0	48.0	42.6	37.3	36.0	38.9	36.8	35.9	36.0	13.4
06:30 - 06:45	50.3	69.1	40.0	56.0	50.5	44.1	43.3	43.5	38.9	41.8	46.6	20.7
06:45 - 07:00	56.7	80.6	45.0	63.9	60.1	54.7	52.2	52.3	49.3	44.1	39.3	19.9

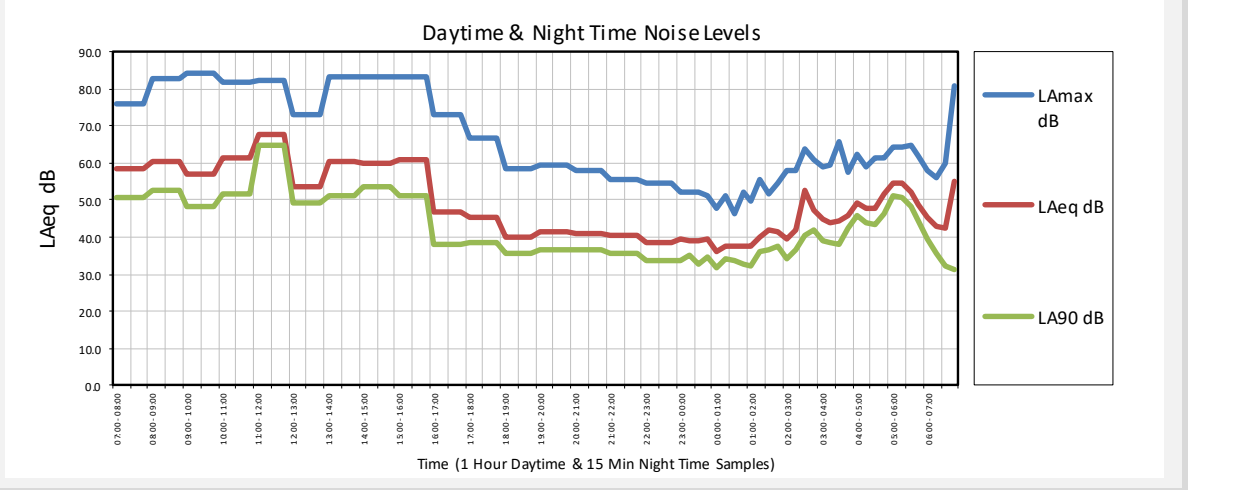


11.3 18th – 19th October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	59.1	84.2	51.0	64.3	59.7	56.3	53.4	54.1	53.5	46.2	42.9	20.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	48.1	80.7	34.0	41.6	40.5	41.5	42.6	41.5	41.2	39.9	39.9	19.6

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	58.2	75.8	51.0	67.4	60.3	56.6	54.2	53.4	50.9	44.6	40.2	17.9
08:00 - 09:00	60.4	82.6	52.0	66.6	62.0	58.5	54.3	54.5	55.0	48.8	44.5	19.5
09:00 - 10:00	57.0	84.2	48.0	65.1	60.4	57.0	52.2	50.8	49.1	46.7	45.6	18.9
10:00 - 11:00	61.5	81.9	52.0	65.8	61.2	58.4	54.9	56.1	56.5	49.2	43.3	20.5
11:00 - 12:00	67.6	82.1	64.0	69.3	65.7	61.4	60.7	63.2	62.6	53.6	47.2	25.6
12:00 - 13:00	53.6	73.2	49.0	59.5	57.4	54.6	46.7	44.6	44.4	43.6	48.7	22.2
13:00 - 14:00	60.1	83.1	51.0	67.7	62.4	58.9	55.6	54.8	54.2	46.0	38.9	18.0
14:00 - 15:00	59.7	83.4	53.0	68.9	63.5	60.4	56.9	53.6	51.4	46.4	45.8	21.9
15:00 - 16:00	60.8	83.4	51.0	63.3	61.3	59.1	55.5	55.7	54.7	49.4	44.4	25.3
16:00 - 17:00	46.8	72.8	38.0	51.5	47.3	44.1	41.7	40.4	38.3	38.1	39.5	19.1
17:00 - 18:00	45.4	66.6	39.0	50.7	47.0	43.0	41.2	39.8	36.8	33.9	37.9	16.1
18:00 - 19:00	39.8	58.4	36.0	45.7	41.1	37.2	35.2	36.1	31.7	27.1	25.1	12.5
19:00 - 20:00	41.5	59.5	37.0	42.4	40.2	37.5	35.9	36.4	34.7	32.3	29.3	14.7
20:00 - 21:00	40.9	57.8	37.0	42.4	40.9	37.4	36.3	36.0	34.0	30.9	27.5	13.7
21:00 - 22:00	40.4	55.5	36.0	42.1	40.6	38.8	37.0	35.3	32.9	29.2	25.7	12.6
22:00 - 23:00	38.7	54.7	34.0	41.6	40.1	37.7	35.3	33.9	30.6	26.7	23.6	12.1

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	39.7	52.3	34.0	40.4	38.2	36.2	35.5	34.9	32.6	29.5	26.5	12.7
23:15 - 23:30	39.1	52.1	35.0	39.6	36.8	35.7	35.3	34.1	31.8	28.7	25.9	12.5
23:30 - 23:45	39.1	52.1	33.0	39.3	36.7	35.7	34.9	34.0	32.0	29.0	26.1	12.5
23:45 - 00:00	39.5	51.2	35.0	40.7	36.9	35.2	35.6	35.1	32.4	28.1	25.0	12.2
00:00 - 00:15	36.0	47.7	32.0	38.9	35.4	33.1	32.0	31.1	28.4	25.5	22.7	11.8
00:15 - 00:30	37.7	51.1	34.0	40.1	36.6	34.8	33.5	32.6	30.6	27.6	24.7	12.1
00:30 - 00:45	37.3	46.4	34.0	38.5	35.8	34.0	33.3	32.1	30.1	27.3	24.4	12.0
00:45 - 01:00	37.6	52.3	33.0	38.8	36.7	34.9	33.6	32.1	30.2	28.1	25.8	12.7
01:00 - 01:15	37.3	49.6	32.0	38.7	35.5	33.5	33.7	32.3	30.1	26.5	23.7	12.0
01:15 - 01:30	40.0	55.4	36.0	38.4	36.7	34.7	33.8	34.0	33.8	31.9	29.0	14.4
01:30 - 01:45	41.8	51.7	37.0	37.7	36.0	34.7	34.4	35.3	36.0	34.1	31.1	15.8
01:45 - 02:00	41.2	54.3	38.0	38.4	36.7	35.3	35.1	35.1	35.2	33.1	30.0	14.9
02:00 - 02:15	39.3	57.9	34.0	37.5	35.8	35.1	34.9	33.5	32.7	30.2	27.1	13.5
02:15 - 02:30	42.0	58.0	37.0	38.0	36.5	35.9	36.1	35.8	36.1	33.9	30.7	15.5
02:30 - 02:45	52.8	63.9	41.0	40.5	41.0	45.3	47.4	46.9	46.9	44.3	41.0	24.8
02:45 - 03:00	47.4	61.0	42.0	39.7	39.1	41.8	43.6	42.0	40.9	37.6	33.5	17.9
03:00 - 03:15	44.6	59.0	39.0	39.1	38.7	39.5	40.4	39.0	38.2	34.9	30.9	16.1
03:15 - 03:30	43.6	59.5	39.0	39.9	39.0	40.3	39.3	37.9	37.0	34.0	29.9	15.3
03:30 - 03:45	44.1	65.8	38.0	38.9	37.2	38.2	39.6	38.5	37.7	35.1	31.2	16.0
03:45 - 04:00	45.9	57.5	42.0	39.8	38.1	39.6	40.9	40.1	39.9	37.1	33.2	17.6
04:00 - 04:15	49.2	62.5	46.0	41.1	41.0	42.9	44.3	43.4	43.2	40.4	36.5	20.5
04:15 - 04:30	47.9	58.9	44.0	40.0	39.0	41.4	43.2	42.1	41.7	38.8	34.9	19.3
04:30 - 04:45	47.6	61.1	43.0	41.1	39.7	41.5	43.2	42.0	41.4	38.3	34.3	18.6
04:45 - 05:00	51.7	61.1	47.0	40.8	40.9	44.3	46.3	45.8	45.9	43.1	39.4	23.4
05:00 - 05:15	54.4	64.1	51.0	42.3	42.9	47.4	49.5	48.6	48.4	45.4	41.7	26.0
05:15 - 05:30	54.6	64.0	51.0	47.7	44.3	47.7	49.6	48.7	48.7	45.7	42.0	26.4
05:30 - 05:45	52.3	64.8	48.0	43.3	43.6	46.6	48.2	46.6	46.0	42.8	38.8	23.3
05:45 - 06:00	48.8	61.9	44.0	41.4	41.2	43.0	44.6	43.3	42.6	39.3	35.3	20.0
06:00 - 06:15	45.4	57.7	39.0	44.2	45.0	44.5	42.3	39.4	38.1	34.5	30.2	16.0
06:15 - 06:30	42.8	56.1	36.0	46.5	45.7	42.7	38.8	36.6	35.6	32.2	27.7	14.5
06:30 - 06:45	42.4	60.0	32.0	44.8	45.1	42.4	37.2	34.0	32.8	34.8	35.9	14.2
06:45 - 07:00	55.2	80.7	31.0	44.7	43.5	39.0	34.6	32.2	32.8	50.0	53.4	25.2



11.4 19th – 20th October 2024

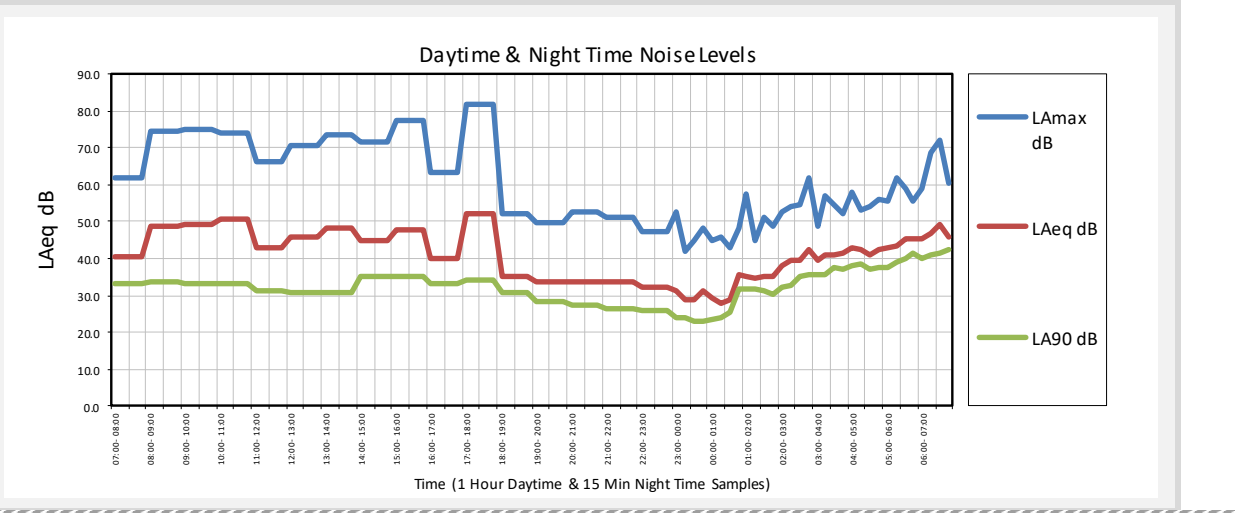
NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	46.3	81.8	33.0	46.2	44.0	39.3	35.2	34.2	32.0	41.0	43.3	18.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	41.9	71.9	24.0	43.7	41.8	40.3	37.1	35.5	33.9	32.0	34.5	14.6

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR 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
07:00 - 08:00	40.6	61.7	33.0	46.8	44.0	39.6	34.8	33.4	31.8	30.3	34.9	14.1
08:00 - 09:00	48.8	74.7	34.0	46.1	41.9	38.9	34.5	33.5	31.4	42.0	47.5	21.9
09:00 - 10:00	49.3	74.7	33.0	50.3	51.2	43.6	39.6	36.8	34.4	45.3	44.6	20.7
10:00 - 11:00	50.5	73.8	33.0	47.1	43.3	41.3	37.2	32.4	30.0	44.5	49.0	22.0
11:00 - 12:00	42.7	66.2	31.0	47.4	44.2	42.5	38.2	33.2	31.3	34.1	37.7	13.9
12:00 - 13:00	45.7	70.8	31.0	46.7	45.1	38.0	32.3	31.3	27.9	37.2	44.7	19.8
13:00 - 14:00	48.1	73.7	31.0	46.5	41.0	38.2	32.9	31.0	30.7	41.9	46.6	20.8
14:00 - 15:00	44.7	71.7	35.0	47.6	45.8	40.6	34.4	34.0	31.3	37.5	42.3	17.8
15:00 - 16:00	47.7	77.5	35.0	47.5	45.3	42.9	40.3	41.3	39.4	40.1	41.4	16.8
16:00 - 17:00	39.8	63.2	33.0	45.3	41.6	38.0	34.5	33.8	30.4	31.9	32.2	12.6
17:00 - 18:00	52.2	81.8	34.0	45.8	41.2	36.8	32.9	34.4	35.3	49.1	47.9	22.5
18:00 - 19:00	35.3	51.9	31.0	43.4	38.8	33.7	31.0	32.6	24.8	16.6	13.1	11.3
19:00 - 20:00	33.4	49.6	28.0	39.7	36.4	30.9	29.4	30.7	23.2	14.5	13.4	11.3
20:00 - 21:00	33.4	52.5	27.0	41.5	39.5	32.5	29.1	30.1	23.3	15.4	13.1	11.3
21:00 - 22:00	33.5	50.9	26.0	45.9	41.4	34.8	28.6	29.3	22.6	15.2	13.3	11.3
22:00 - 23:00	32.3	47.1	26.0	39.2	37.2	32.8	29.1	28.5	20.9	14.2	13.2	11.3

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	31.1	52.6	24.0	39.1	34.6	32.0	26.7	27.5	21.2	14.8	13.2	11.3
23:15 - 23:30	28.9	41.8	24.0	33.0	31.4	25.4	24.6	25.9	19.7	14.5	13.3	11.3
23:30 - 23:45	28.9	44.7	23.0	31.0	29.5	25.1	24.0	26.4	18.9	13.9	13.1	11.3
23:45 - 00:00	31.1	48.1	23.0	35.4	31.9	26.3	26.5	28.0	23.1	16.0	14.8	11.4
00:00 - 00:15	29.4	44.6	24.0	33.8	30.4	24.9	25.5	26.0	21.1	15.4	13.8	11.4
00:15 - 00:30	27.7	45.8	24.0	32.6	30.4	25.5	23.1	23.2	19.2	17.3	15.8	11.4
00:30 - 00:45	29.0	43.0	25.0	33.3	30.4	26.5	24.6	23.9	20.8	19.6	18.0	11.6
00:45 - 01:00	35.5	48.0	32.0	36.1	34.0	31.9	31.0	30.5	28.0	26.2	24.2	12.4
01:00 - 01:15	34.9	57.2	32.0	36.4	33.4	31.3	30.5	29.2	27.6	26.3	23.8	12.1
01:15 - 01:30	34.6	44.8	32.0	36.3	33.6	31.3	30.3	28.8	27.3	25.7	23.4	12.0
01:30 - 01:45	35.1	51.1	31.0	38.0	34.9	33.2	30.7	29.3	27.5	26.1	24.1	12.3
01:45 - 02:00	34.9	48.8	30.0	37.2	35.1	32.7	30.6	28.8	27.3	26.1	24.2	12.3
02:00 - 02:15	37.8	52.4	32.0	39.3	37.6	36.4	33.2	32.0	30.1	28.7	26.9	13.3
02:15 - 02:30	39.3	53.9	33.0	40.8	38.5	36.7	34.7	33.4	32.0	30.6	28.4	13.6
02:30 - 02:45	39.6	54.6	35.0	40.9	38.3	37.1	35.0	33.9	32.5	30.5	28.2	13.7
02:45 - 03:00	42.6	61.9	36.0	44.2	41.1	40.9	37.8	36.8	35.3	33.3	31.3	15.5
03:00 - 03:15	39.5	48.8	36.0	39.9	37.5	35.6	34.3	33.5	32.7	31.1	28.7	13.9
03:15 - 03:30	41.0	57.1	35.0	40.9	39.0	38.1	36.5	35.4	33.8	31.6	29.4	14.1
03:30 - 03:45	40.7	54.7	38.0	40.8	38.7	37.3	36.1	35.2	33.8	31.6	29.0	13.7
03:45 - 04:00	41.4	51.9	37.0	41.3	39.0	38.0	37.0	36.1	34.4	31.8	29.0	13.6
04:00 - 04:15	43.0	58.1	38.0	44.2	41.1	41.1	38.4	37.3	35.9	33.6	31.1	14.9
04:15 - 04:30	42.4	53.1	39.0	42.4	40.2	39.0	37.9	37.0	35.4	32.8	30.2	14.3
04:30 - 04:45	41.1	54.2	37.0	43.3	43.1	40.9	37.3	35.3	33.4	30.6	27.7	13.0
04:45 - 05:00	42.6	55.9	38.0	44.5	41.8	40.2	38.3	37.2	35.3	32.7	30.5	14.8
05:00 - 05:15	43.0	55.5	38.0	43.5	43.8	42.5	39.3	37.1	35.3	32.9	30.4	14.5
05:15 - 05:30	43.2	61.6	39.0	44.7	44.8	43.3	39.2	37.1	35.5	33.1	30.6	14.4
05:30 - 05:45	45.5	59.1	40.0	48.2	47.1	45.5	41.2	39.1	38.0	35.8	33.1	16.3
05:45 - 06:00	45.2	55.4	41.0	46.1	44.8	43.2	40.3	39.5	38.4	36.0	33.1	16.2
06:00 - 06:15	45.2	58.7	40.0	48.8	45.5	44.6	40.5	38.8	37.2	34.9	37.5	16.2
06:15 - 06:30	46.7	68.5	41.0	50.6	49.1	47.4	43.0	39.0	37.1	35.8	40.0	17.3
06:30 - 06:45	49.3	71.9	41.0	49.2	47.6	45.4	41.4	39.8	37.8	39.0	47.3	22.3
06:45 - 07:00	45.9	60.5	42.0	48.5	45.0	43.6	41.2	40.8	39.0	35.3	32.7	15.1



11.5 20th – 21st October 2024

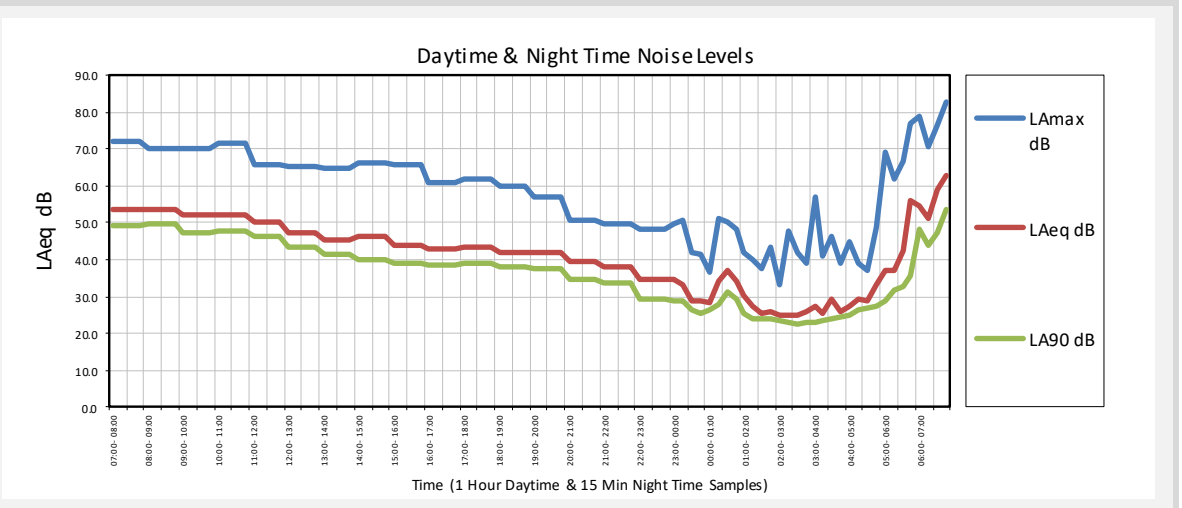
NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	48.4	71.8	39.0	48.3	44.9	43.9	43.1	42.7	41.5	38.9	39.7	18.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	50.6	82.6	24.0	54.1	51.2	47.9	44.5	45.1	44.2	38.7	41.6	16.9

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR 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
07:00 - 08:00	53.3	71.8	49.0	50.5	46.9	47.8	47.7	47.2	46.8	44.5	44.7	24.1
08:00 - 09:00	53.6	70.1	50.0	51.0	47.6	48.3	48.6	47.8	47.0	44.1	43.7	23.8
09:00 - 10:00	51.9	69.9	47.0	51.8	48.0	47.5	46.6	46.1	44.8	41.8	44.1	20.5
10:00 - 11:00	52.1	71.3	48.0	52.0	48.2	47.8	46.8	46.4	45.3	42.4	43.6	21.0
11:00 - 12:00	50.1	65.7	46.0	50.2	47.2	46.5	45.3	44.9	43.6	40.3	36.4	17.1
12:00 - 13:00	47.1	65.0	43.0	48.3	44.6	43.5	42.1	41.7	40.0	36.8	38.6	16.3
13:00 - 14:00	45.3	64.8	41.0	47.3	44.2	41.8	39.8	39.8	37.3	34.9	38.5	15.6
14:00 - 15:00	46.1	66.3	40.0	47.0	43.3	40.5	38.4	38.7	35.7	38.3	42.2	16.6
15:00 - 16:00	43.9	65.8	39.0	48.4	46.3	41.3	38.1	38.3	35.5	34.8	36.1	14.6
16:00 - 17:00	42.7	60.7	38.0	46.6	43.1	39.9	38.0	37.7	35.0	32.5	32.2	13.4
17:00 - 18:00	43.2	61.8	39.0	45.4	42.6	39.5	38.4	37.6	35.4	32.8	35.7	14.2
18:00 - 19:00	42.1	60.1	38.0	45.8	42.0	39.0	37.5	37.1	35.1	31.7	28.6	13.1
19:00 - 20:00	42.0	56.8	37.0	45.1	41.1	39.0	37.4	36.9	35.0	31.9	28.9	13.3
20:00 - 21:00	39.5	50.6	35.0	42.4	39.8	36.6	35.1	34.5	32.2	29.0	26.1	12.4
21:00 - 22:00	38.1	49.5	34.0	41.5	38.7	35.6	34.0	32.9	30.8	27.9	24.9	12.1
22:00 - 23:00	34.4	48.3	29.0	37.6	35.1	32.1	30.1	29.2	26.6	24.9	22.6	11.9

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	34.5	49.5	29.0	35.5	33.5	30.3	29.3	31.5	25.9	23.6	20.8	11.6
23:15 - 23:30	33.3	50.5	29.0	35.0	32.4	30.1	28.6	28.6	25.5	23.9	21.4	11.6
23:30 - 23:45	28.8	41.9	26.0	34.8	33.3	28.5	25.0	22.6	20.5	19.0	16.6	11.4
23:45 - 00:00	28.8	41.4	26.0	34.9	32.0	28.2	25.2	22.7	20.6	19.1	17.0	11.4
00:00 - 00:15	28.5	36.6	26.0	34.5	31.9	27.9	25.0	22.9	20.1	18.6	16.1	11.4
00:15 - 00:30	33.9	51.2	28.0	38.8	35.1	32.4	29.6	28.2	26.6	24.2	21.2	11.7
00:30 - 00:45	37.1	50.2	31.0	37.6	35.9	33.8	32.8	31.6	30.3	27.7	24.8	12.1
00:45 - 01:00	34.2	48.3	29.0	36.7	34.0	32.1	29.9	28.2	26.8	25.3	22.9	11.9
01:00 - 01:15	30.1	41.7	25.0	35.8	31.8	28.5	26.0	23.9	22.5	21.2	19.1	11.5
01:15 - 01:30	27.2	40.1	24.0	34.6	31.5	27.3	23.2	20.0	18.8	18.3	16.3	11.4
01:30 - 01:45	25.5	37.5	24.0	34.1	31.3	26.9	21.9	17.7	16.4	16.1	14.3	11.3
01:45 - 02:00	25.9	43.3	24.0	34.4	32.5	27.4	21.9	17.8	17.4	16.5	14.9	11.4
02:00 - 02:15	25.1	33.0	23.0	34.2	32.8	27.0	21.6	17.3	14.7	15.0	13.8	11.3
02:15 - 02:30	25.1	47.6	23.0	34.0	32.9	26.0	21.1	18.7	16.4	13.4	12.6	11.3
02:30 - 02:45	24.9	41.8	23.0	33.6	31.6	28.6	22.2	16.6	11.6	12.7	12.4	11.3
02:45 - 03:00	25.9	39.0	23.0	35.1	31.6	26.8	22.1	21.0	15.3	14.0	12.9	11.3
03:00 - 03:15	27.5	56.9	23.0	33.7	32.3	26.7	20.2	17.3	15.8	22.0	20.8	11.4
03:15 - 03:30	25.5	41.1	24.0	34.0	31.5	26.3	21.3	20.1	15.3	14.8	14.0	11.3
03:30 - 03:45	29.3	46.1	24.0	36.7	37.9	34.0	24.5	22.1	16.5	15.5	14.2	11.5
03:45 - 04:00	25.7	38.8	24.0	34.2	32.5	26.6	21.8	20.4	15.4	14.8	13.6	11.3
04:00 - 04:15	27.1	44.8	25.0	36.5	32.6	27.0	23.3	23.1	16.2	14.0	13.1	11.3
04:15 - 04:30	29.5	38.9	26.0	38.0	34.5	29.7	26.2	25.7	18.6	13.0	12.6	11.3
04:30 - 04:45	28.8	37.1	27.0	38.3	34.0	29.4	25.8	25.0	17.3	13.1	12.5	11.3
04:45 - 05:00	33.3	48.8	27.0	49.6	43.6	36.9	28.2	25.9	17.4	12.7	12.3	11.3
05:00 - 05:15	37.1	69.2	29.0	41.4	38.0	32.6	28.2	31.0	32.8	26.9	20.2	11.4
05:15 - 05:30	37.2	61.8	32.0	43.4	41.9	38.8	31.1	30.3	29.2	28.8	16.9	11.3
05:30 - 05:45	42.2	66.5	33.0	49.1	47.3	42.6	35.1	36.6	36.0	29.7	26.0	12.2
05:45 - 06:00	56.2	76.9	36.0	54.7	50.1	45.2	42.0	41.5	36.6	46.3	55.8	29.1
06:00 - 06:15	54.4	78.6	48.0	61.2	57.0	52.6	50.2	49.2	47.3	43.1	41.3	17.7
06:15 - 06:30	51.0	70.3	44.0	57.7	50.3	45.3	45.3	46.3	44.9	39.9	38.6	14.5
06:30 - 06:45	58.9	76.5	47.0	64.4	60.7	57.4	53.2	54.3	52.3	46.8	43.5	21.2
06:45 - 07:00	63.0	82.6	54.0	64.8	63.3	60.5	57.1	57.8	57.6	50.5	45.1	22.4

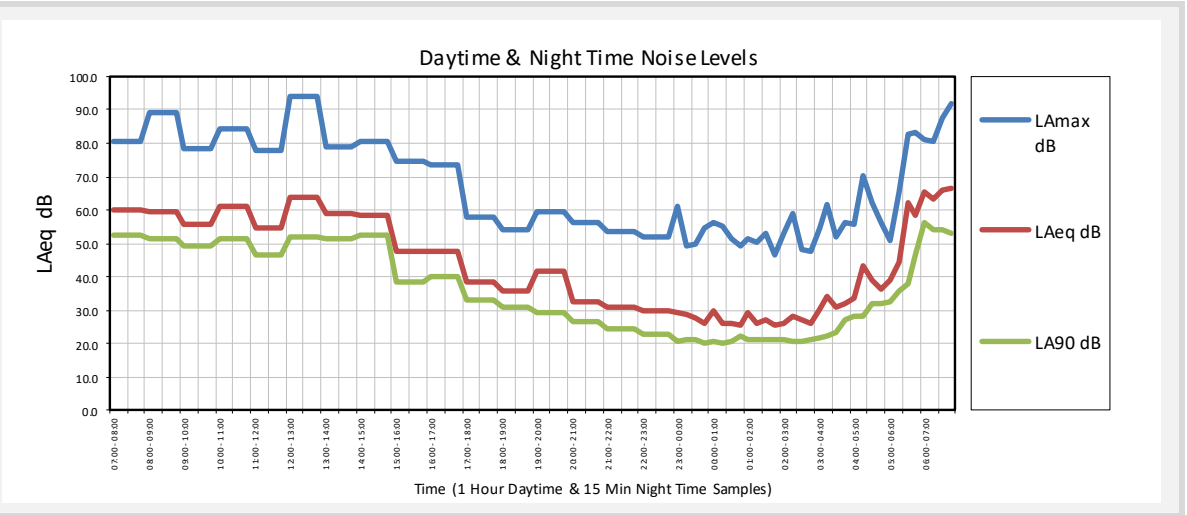


11.6 21st – 22nd October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	56.9	93.8	52.0	62.7	58.4	55.6	50.7	51.2	51.3	45.3	42.4	20.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	57.1	92.1	21.0	60.3	54.1	52.2	51.1	52.6	51.3	45.7	41.2	17.4

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	59.8	80.3	52.0	63.1	61.5	59.1	52.8	54.9	53.7	47.1	45.0	20.0
08:00 - 09:00	59.4	89.0	51.0	64.6	61.2	57.8	52.6	52.4	52.3	52.1	49.4	27.7
09:00 - 10:00	55.6	78.1	49.0	62.9	59.1	56.7	50.9	49.8	48.1	43.2	41.2	18.3
10:00 - 11:00	61.0	84.2	52.0	69.1	62.8	59.9	55.8	55.7	54.7	48.6	44.4	21.2
11:00 - 12:00	54.8	77.9	46.0	62.1	57.5	55.0	49.2	48.6	47.3	45.0	44.5	20.9
12:00 - 13:00	63.9	93.8	52.0	64.4	61.1	57.8	56.3	58.0	60.2	50.3	45.9	24.8
13:00 - 14:00	58.8	78.7	52.0	68.1	62.5	59.3	54.0	53.5	51.7	45.8	42.7	19.9
14:00 - 15:00	58.4	80.7	52.0	65.5	62.4	60.2	53.3	52.6	51.2	46.2	42.5	20.2
15:00 - 16:00	47.7	74.5	38.0	54.1	48.6	44.1	40.7	41.1	41.7	38.4	39.3	17.9
16:00 - 17:00	47.5	73.4	40.0	49.6	46.9	45.1	43.2	41.2	38.2	40.1	38.3	17.4
17:00 - 18:00	38.7	58.1	33.0	45.2	43.7	40.3	34.0	34.5	29.5	24.7	20.6	11.5
18:00 - 19:00	35.8	54.2	31.0	41.6	39.4	35.9	32.2	32.0	26.4	20.2	16.5	11.4
19:00 - 20:00	41.5	59.4	29.0	51.9	46.7	45.4	39.8	35.2	27.1	21.2	17.7	11.4
20:00 - 21:00	32.4	56.3	27.0	40.4	38.3	33.5	28.4	27.7	22.7	19.2	16.0	11.4
21:00 - 22:00	31.2	53.8	24.0	37.1	34.9	30.7	27.6	26.9	21.9	18.5	15.7	11.4
22:00 - 23:00	29.7	52.0	23.0	34.3	30.2	28.8	25.9	25.4	21.0	18.1	15.3	11.4

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	29.1	61.2	21.0	28.5	26.9	25.6	23.7	24.2	21.5	21.2	16.0	11.5
23:15 - 23:30	28.7	49.5	21.0	28.8	26.8	26.5	23.1	25.3	20.5	16.9	14.6	11.4
23:30 - 23:45	27.6	50.0	21.0	29.9	27.7	25.5	22.0	23.7	19.5	17.3	16.4	11.7
23:45 - 00:00	26.0	54.6	20.0	29.8	26.7	24.4	19.4	20.3	18.8	17.7	16.1	11.4
00:00 - 00:15	29.6	56.1	21.0	33.0	28.2	26.6	25.2	24.9	22.8	18.8	15.6	11.5
00:15 - 00:30	26.2	55.0	20.0	29.7	27.0	24.0	19.1	18.6	20.9	17.8	15.0	11.4
00:30 - 00:45	26.0	51.5	21.0	29.6	27.1	25.2	20.0	19.8	18.6	17.7	15.8	11.6
00:45 - 01:00	25.7	49.3	22.0	31.8	29.3	26.1	20.4	19.5	17.5	17.2	15.5	11.5
01:00 - 01:15	29.2	51.4	21.0	33.1	34.6	33.3	25.8	19.3	20.2	18.8	16.0	11.5
01:15 - 01:30	25.8	50.3	21.0	30.9	27.7	26.3	19.9	18.7	18.5	17.9	15.7	11.4
01:30 - 01:45	27.2	53.1	21.0	29.0	28.2	26.0	21.5	21.8	20.3	18.0	15.5	11.4
01:45 - 02:00	25.7	46.4	21.0	28.0	27.4	26.6	18.4	19.7	18.5	17.5	15.4	11.4
02:00 - 02:15	26.0	53.2	21.0	29.1	27.2	26.5	18.8	19.5	19.3	17.8	15.9	11.5
02:15 - 02:30	28.0	59.2	21.0	31.6	28.0	25.3	21.7	21.4	21.6	20.0	16.8	11.5
02:30 - 02:45	27.2	48.2	21.0	31.2	24.6	24.7	21.3	22.9	19.2	18.0	16.6	11.5
02:45 - 03:00	25.8	47.9	21.0	32.2	25.4	25.0	20.1	20.0	18.0	17.7	15.9	11.5
03:00 - 03:15	30.3	54.6	22.0	31.7	25.2	24.9	23.3	28.5	20.1	18.7	15.8	11.4
03:15 - 03:30	34.0	61.6	22.0	32.7	31.2	34.4	29.0	32.3	20.4	18.2	15.4	11.4
03:30 - 03:45	30.8	51.8	24.0	34.6	33.8	32.2	25.7	25.8	22.0	20.1	17.2	11.5
03:45 - 04:00	32.0	56.4	27.0	35.7	32.2	30.0	27.3	29.1	22.9	17.8	15.9	11.4
04:00 - 04:15	33.8	55.8	28.0	38.5	31.9	30.6	30.4	30.8	24.4	18.9	15.9	11.4
04:15 - 04:30	43.1	70.3	28.0	48.7	40.6	35.9	35.3	38.0	37.4	33.9	30.4	13.8
04:30 - 04:45	39.1	62.1	32.0	51.8	47.0	42.8	36.4	32.1	25.8	22.5	18.6	11.5
04:45 - 05:00	36.3	56.2	32.0	42.1	37.8	35.4	32.7	32.4	27.9	20.9	17.0	11.5
05:00 - 05:15	39.2	50.7	33.0	44.2	44.2	43.1	37.6	32.8	25.5	18.3	15.3	11.4
05:15 - 05:30	44.2	65.2	36.0	47.6	45.1	44.3	40.6	38.3	36.6	32.0	32.5	12.9
05:30 - 05:45	62.4	82.6	38.0	58.5	53.6	53.7	56.2	56.8	56.3	52.7	53.3	26.7
05:45 - 06:00	58.3	83.0	47.0	64.7	58.5	53.3	51.9	54.3	51.0	45.2	46.8	22.1
06:00 - 06:15	65.3	81.3	56.0	68.2	61.5	60.0	60.5	61.1	59.4	50.8	43.7	22.5
06:15 - 06:30	63.3	80.4	54.0	69.6	61.8	56.9	57.5	59.1	57.1	51.6	47.1	24.3
06:30 - 06:45	66.1	87.3	54.0	68.1	62.8	62.1	60.3	61.4	60.7	53.7	45.1	21.1
06:45 - 07:00	66.4	92.1	53.0	68.9	63.6	62.2	58.7	61.8	60.6	56.7	46.7	22.5

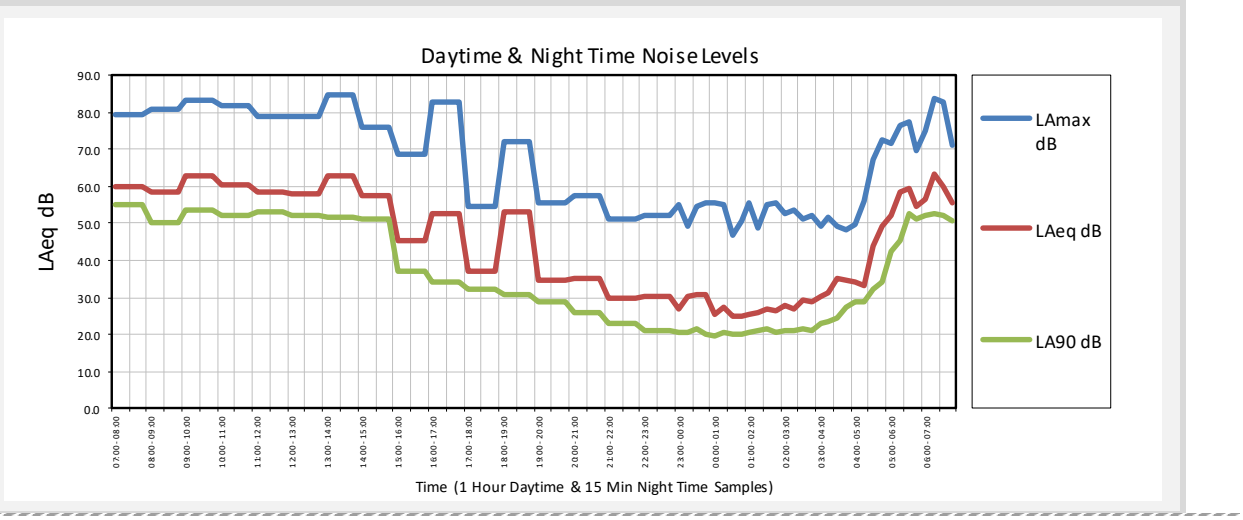


11.7 22nd – 23rd October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	57.4	84.5	52.0	64.5	59.0	56.1	52.0	52.0	51.0	46.3	43.2	22.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	52.7	83.7	21.0	58.3	55.2	51.3	46.7	47.7	46.1	40.7	38.4	16.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	60.0	79.1	55.0	68.7	62.9	60.7	55.2	53.6	53.1	49.2	45.6	23.4
08:00 - 09:00	58.3	80.7	50.0	63.9	60.1	57.9	53.3	52.9	51.4	47.0	44.0	20.4
09:00 - 10:00	62.6	83.0	53.0	69.2	63.3	60.8	57.1	57.8	56.6	50.3	46.7	22.7
10:00 - 11:00	60.4	81.7	52.0	66.2	61.9	58.9	54.1	55.2	54.2	48.8	47.1	23.7
11:00 - 12:00	58.6	78.6	53.0	65.1	60.7	57.6	54.3	52.3	51.8	48.2	46.0	30.5
12:00 - 13:00	58.0	78.9	52.0	66.0	61.4	57.4	52.5	52.1	51.3	47.1	44.4	23.0
13:00 - 14:00	62.7	84.5	52.0	69.8	62.9	59.7	56.9	57.9	56.8	50.0	43.3	24.5
14:00 - 15:00	57.5	76.0	51.0	66.8	61.0	57.0	51.2	51.3	51.3	46.6	43.8	20.8
15:00 - 16:00	45.4	68.8	37.0	50.5	46.8	41.2	37.5	39.3	39.4	36.8	35.7	14.4
16:00 - 17:00	52.4	82.6	34.0	46.2	42.9	38.4	34.2	34.8	35.6	49.6	47.5	22.6
17:00 - 18:00	37.0	54.4	32.0	43.0	39.3	36.5	33.6	33.5	27.7	20.0	16.2	11.3
18:00 - 19:00	52.9	71.8	31.0	58.6	53.7	52.4	52.0	47.4	44.1	34.4	24.4	13.6
19:00 - 20:00	34.7	55.5	29.0	39.4	35.9	34.1	31.2	31.2	25.0	18.9	16.1	11.4
20:00 - 21:00	35.3	57.3	26.0	39.8	37.0	34.1	30.8	32.1	26.3	22.7	17.1	11.3
21:00 - 22:00	29.9	51.3	23.0	36.7	31.8	29.3	27.4	25.4	20.4	17.5	14.6	11.3
22:00 - 23:00	30.5	51.9	21.0	34.6	31.5	29.6	28.5	25.8	21.0	16.9	15.0	11.5

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	27.0	55.2	20.0	31.7	26.0	22.1	20.2	21.4	19.9	18.0	18.8	11.4
23:15 - 23:30	30.4	49.4	21.0	36.5	31.0	26.8	24.6	26.4	23.1	19.7	16.6	11.4
23:30 - 23:45	30.6	54.6	21.0	33.6	27.7	23.8	27.7	26.8	22.7	17.2	15.0	11.4
23:45 - 00:00	30.8	55.3	20.0	36.6	30.9	25.6	24.4	27.4	23.4	19.6	16.4	11.4
00:00 - 00:15	25.4	55.3	20.0	27.5	24.2	20.8	19.0	19.0	18.2	18.5	15.7	11.4
00:15 - 00:30	27.3	55.2	20.0	29.2	24.6	22.2	21.5	23.3	19.7	17.4	15.0	11.4
00:30 - 00:45	24.9	46.9	20.0	28.2	24.7	22.2	19.4	18.6	17.8	16.8	14.5	11.3
00:45 - 01:00	25.0	50.5	20.0	30.0	27.3	22.4	19.3	19.6	17.5	16.0	14.5	11.3
01:00 - 01:15	25.5	55.7	21.0	29.2	29.8	22.7	19.5	18.7	18.7	17.5	14.7	11.3
01:15 - 01:30	26.0	48.6	21.0	28.9	29.5	23.8	21.4	20.3	18.3	17.0	14.8	11.4
01:30 - 01:45	26.9	55.2	22.0	28.5	28.7	23.4	21.0	20.4	19.7	19.3	17.6	11.4
01:45 - 02:00	26.4	55.7	21.0	32.2	26.8	22.1	20.0	20.5	20.3	17.6	15.5	11.4
02:00 - 02:15	27.9	52.6	21.0	31.3	27.2	23.0	21.3	21.6	23.0	18.2	15.5	11.5
02:15 - 02:30	26.9	53.4	21.0	31.3	25.8	22.1	22.0	22.4	19.3	17.2	15.1	11.3
02:30 - 02:45	29.1	51.2	22.0	34.5	35.0	26.9	25.2	23.7	21.2	17.7	16.0	11.4
02:45 - 03:00	28.6	52.0	21.0	31.0	29.0	24.1	22.5	23.3	23.3	17.8	15.8	11.4
03:00 - 03:15	30.1	49.4	23.0	34.0	28.0	25.3	24.8	27.1	21.7	17.5	15.3	11.4
03:15 - 03:30	31.4	51.4	23.0	33.3	31.3	27.0	26.1	28.5	22.5	18.7	15.7	11.4
03:30 - 03:45	34.9	49.0	25.0	39.8	35.5	30.5	31.9	31.6	25.9	18.7	16.1	11.4
03:45 - 04:00	34.6	48.0	27.0	41.8	40.4	33.8	30.3	31.2	25.0	18.1	15.3	11.3
04:00 - 04:15	34.3	49.7	29.0	44.9	40.8	32.4	28.8	30.5	26.2	19.6	16.3	11.4
04:15 - 04:30	33.2	56.2	29.0	40.7	38.1	31.8	29.1	29.5	24.1	18.0	15.6	11.4
04:30 - 04:45	43.8	67.1	32.0	48.7	45.6	41.6	35.1	38.2	38.5	33.1	30.4	12.8
04:45 - 05:00	49.0	72.5	34.0	56.0	48.7	41.5	41.4	41.2	37.1	40.5	45.8	19.8
05:00 - 05:15	52.2	71.3	42.0	58.4	52.3	46.2	43.5	47.6	43.5	39.9	46.5	21.3
05:15 - 05:30	58.3	76.5	45.0	61.2	56.8	52.2	50.7	54.3	52.5	45.5	40.6	18.5
05:30 - 05:45	59.4	77.4	53.0	68.5	62.5	58.3	54.0	53.9	52.9	47.0	43.7	20.5
05:45 - 06:00	54.5	69.8	51.0	61.5	61.4	56.8	48.3	48.2	45.3	41.1	42.3	18.0
06:00 - 06:15	56.7	75.1	52.0	65.1	61.9	57.0	50.6	52.0	48.9	44.2	39.0	17.7
06:15 - 06:30	63.1	83.7	53.0	62.0	61.4	57.6	55.9	58.7	57.7	51.6	45.8	23.4
06:30 - 06:45	59.7	82.5	52.0	64.8	63.3	61.0	56.2	53.5	51.9	47.5	42.5	19.8
06:45 - 07:00	55.5	70.9	51.0	64.2	61.7	57.9	50.1	48.6	46.6	43.9	43.1	20.3



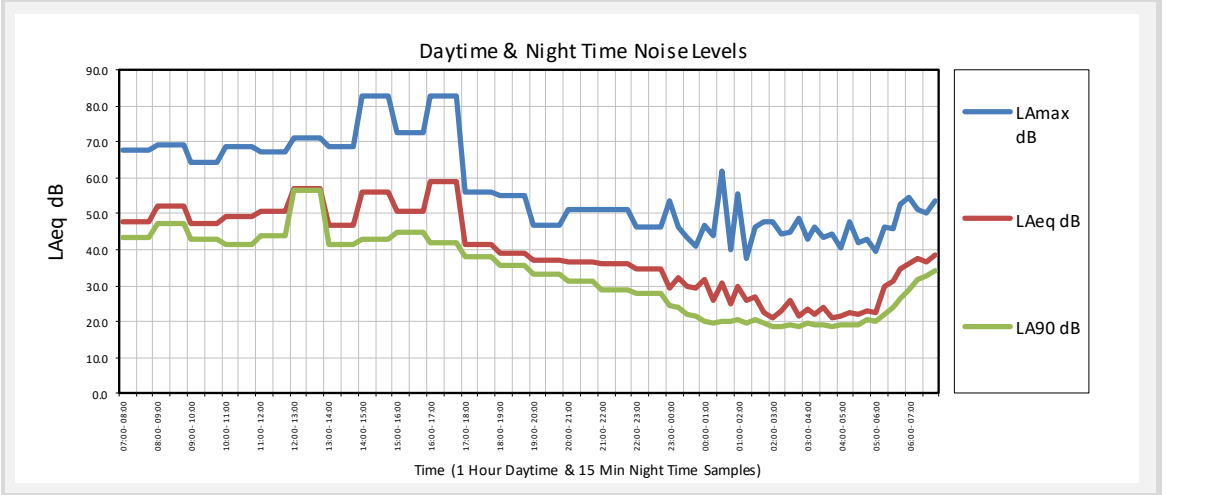
11.8 Position 2

11.9 17th – 18th October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	51.7	82.9	43.0	53.9	49.3	47.8	46.5	45.8	45.9	42.3	34.9	22.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	30.8	61.9	20.0	39.2	32.9	29.0	27.7	25.7	23.0	19.1	15.9	10.3

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	47.6	67.9	43.0	50.9	46.9	46.5	44.3	42.2	39.7	36.7	34.1	14.9
08:00 - 09:00	52.0	69.2	47.0	53.0	49.7	49.6	49.2	46.9	44.9	39.5	35.7	14.7
09:00 - 10:00	47.5	64.4	43.0	52.3	46.5	45.1	43.8	42.1	40.5	36.6	32.2	14.0
10:00 - 11:00	49.0	68.4	42.0	52.0	48.3	47.8	46.1	43.0	41.6	38.0	32.7	14.1
11:00 - 12:00	50.6	66.9	44.0	54.4	51.8	49.3	48.4	45.0	43.1	36.4	27.1	15.6
12:00 - 13:00	57.0	71.0	57.0	51.9	49.6	45.4	46.7	49.6	52.0	51.1	41.5	20.1
13:00 - 14:00	46.7	68.4	41.0	52.0	48.3	43.5	41.0	40.7	40.9	36.8	31.6	22.8
14:00 - 15:00	55.9	82.4	43.0	59.8	53.0	53.0	50.4	50.4	50.5	44.8	37.7	27.9
15:00 - 16:00	50.5	72.7	45.0	59.5	52.5	47.0	46.2	44.4	44.0	40.4	34.6	26.4
16:00 - 17:00	59.0	82.9	42.0	57.4	54.4	55.0	53.9	53.5	53.5	48.3	41.4	31.5
17:00 - 18:00	41.6	56.0	38.0	49.4	48.9	41.4	37.1	36.0	33.1	29.2	28.7	17.9
18:00 - 19:00	39.2	55.1	36.0	47.3	45.0	38.9	35.1	34.4	30.0	25.9	27.5	12.1
19:00 - 20:00	37.1	46.9	33.0	46.6	41.0	35.5	33.6	33.4	28.8	14.4	11.3	14.0
20:00 - 21:00	36.3	51.3	31.0	45.3	42.0	35.3	33.1	32.2	27.9	14.3	11.7	14.6
21:00 - 22:00	36.2	51.0	29.0	42.8	36.3	33.4	33.0	32.4	28.9	14.7	11.3	17.6
22:00 - 23:00	34.7	46.3	28.0	42.9	37.3	33.6	31.2	30.8	26.6	14.0	11.4	9.9

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	29.1	53.5	24.0	35.5	33.4	28.8	24.7	24.9	21.0	14.0	11.7	9.9
23:15 - 23:30	32.3	46.5	24.0	42.0	34.8	29.9	29.7	28.3	23.5	14.8	11.2	9.8
23:30 - 23:45	29.7	43.2	22.0	37.4	28.0	27.3	26.8	26.1	21.2	11.7	11.6	9.8
23:45 - 00:00	29.5	40.9	22.0	35.6	27.3	26.4	27.0	25.6	21.0	12.4	11.3	9.8
00:00 - 00:15	31.8	46.8	20.0	43.8	29.1	27.9	29.7	27.6	23.7	12.0	11.5	9.8
00:15 - 00:30	26.1	43.8	20.0	30.8	25.4	24.2	20.2	23.2	17.5	11.8	11.4	9.9
00:30 - 00:45	30.9	61.9	20.0	31.7	28.8	27.2	22.2	19.7	28.4	16.4	11.4	9.8
00:45 - 01:00	25.0	40.1	20.0	32.5	27.3	24.5	21.2	19.9	17.1	12.2	12.6	9.9
01:00 - 01:15	29.8	55.7	21.0	30.8	26.1	25.4	33.1	17.8	14.4	12.3	11.6	9.9
01:15 - 01:30	25.7	37.7	20.0	33.3	25.5	24.5	21.4	21.9	17.0	13.3	11.8	9.9
01:30 - 01:45	27.0	46.4	21.0	30.2	23.3	24.3	21.3	23.6	18.8	15.8	13.1	10.1
01:45 - 02:00	22.5	47.5	20.0	30.7	20.6	21.3	15.1	13.9	15.9	15.8	12.8	10.0
02:00 - 02:15	21.2	47.7	18.0	27.6	19.2	21.2	14.3	13.3	13.9	14.2	12.3	10.1
02:15 - 02:30	23.2	44.1	19.0	27.4	20.1	23.5	14.6	12.8	17.5	16.6	11.6	9.9
02:30 - 02:45	25.7	44.9	19.0	30.1	31.2	29.4	23.8	14.5	15.0	15.9	11.5	9.9
02:45 - 03:00	21.7	48.8	18.0	29.3	20.6	21.1	14.7	13.7	14.6	14.6	13.2	10.1
03:00 - 03:15	23.4	42.9	20.0	28.1	20.4	20.4	17.8	17.5	16.3	15.4	13.0	10.2
03:15 - 03:30	22.1	46.4	19.0	26.6	19.4	18.7	16.1	14.9	15.4	14.8	12.6	10.1
03:30 - 03:45	23.9	43.3	19.0	28.4	29.2	25.4	21.3	14.9	14.8	14.3	12.3	10.0
03:45 - 04:00	21.1	44.3	18.0	31.2	23.2	21.8	16.3	13.0	12.7	12.7	12.0	9.9
04:00 - 04:15	21.3	40.3	19.0	33.8	22.8	18.8	15.9	14.2	13.8	13.2	11.9	9.9
04:15 - 04:30	22.5	47.5	19.0	33.7	22.5	19.1	16.8	15.2	14.9	15.8	12.0	10.0
04:30 - 04:45	22.0	42.1	19.0	33.0	21.1	19.1	17.1	15.6	14.2	14.0	12.1	10.0
04:45 - 05:00	23.1	42.8	21.0	34.5	22.8	20.8	18.7	17.4	14.8	14.1	12.9	10.0
05:00 - 05:15	22.7	39.3	20.0	33.9	21.7	19.7	17.6	16.7	14.9	14.4	12.3	10.0
05:15 - 05:30	29.9	46.5	22.0	38.6	37.0	34.6	28.4	19.5	16.0	14.9	12.7	10.1
05:30 - 05:45	31.0	45.7	24.0	44.4	36.3	31.2	28.2	25.8	21.8	17.3	13.8	10.3
05:45 - 06:00	34.5	52.8	26.0	43.3	35.1	34.3	32.3	28.7	26.9	20.7	15.8	11.0
06:00 - 06:15	36.2	54.7	29.0	41.9	33.0	31.8	33.4	31.8	29.1	21.8	16.2	11.1
06:15 - 06:30	37.5	51.2	32.0	46.5	42.0	35.7	34.1	33.1	29.6	21.0	16.3	11.1
06:30 - 06:45	36.4	50.0	33.0	46.0	37.9	34.0	33.1	32.2	28.7	22.0	17.5	11.6
06:45 - 07:00	38.5	53.7	34.0	44.8	41.1	34.9	33.5	32.9	29.8	31.1	27.9	12.6

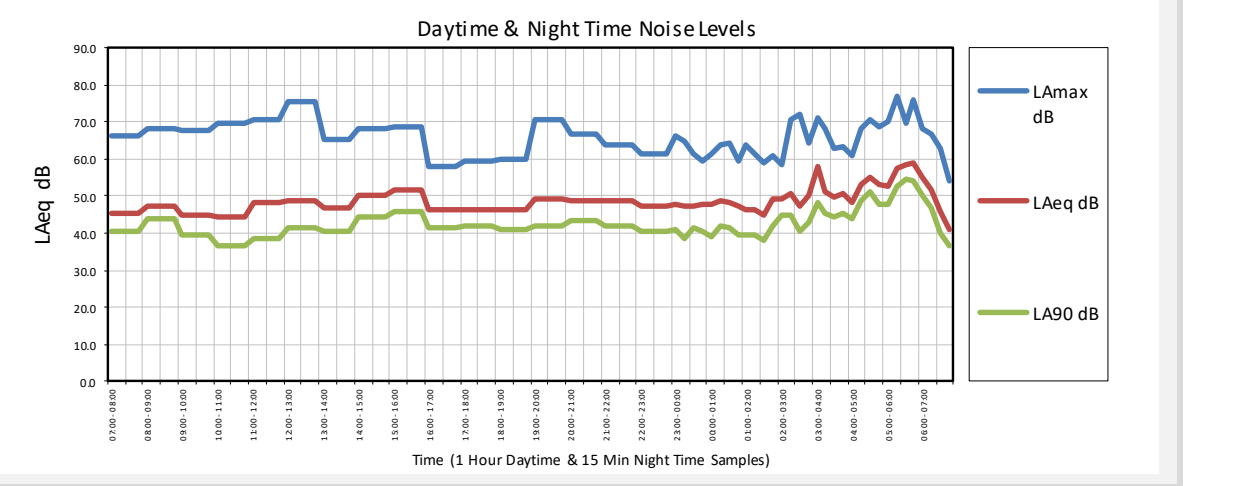


11.10 18th – 19th October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	47.8	75.3	41.0	57.3	50.3	45.2	43.2	41.2	40.9	39.2	35.4	26.1
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	52.3	76.8	41.0	59.9	49.6	45.2	45.0	44.8	46.4	46.0	40.1	32.4

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	45.5	66.1	41.0	53.3	47.8	44.8	41.7	39.4	36.6	36.4	34.4	16.4
08:00 - 09:00	47.2	67.9	44.0	53.2	48.8	44.9	42.7	42.0	39.2	36.1	37.4	17.3
09:00 - 10:00	45.0	67.8	40.0	51.8	47.7	43.2	40.8	38.0	35.6	37.0	36.8	17.5
10:00 - 11:00	44.3	69.7	36.0	50.4	45.3	42.1	39.5	36.1	35.8	37.7	36.1	17.3
11:00 - 12:00	48.1	70.6	38.0	54.0	54.7	47.2	44.2	40.8	42.0	36.5	30.9	18.4
12:00 - 13:00	48.8	75.3	41.0	55.2	55.6	48.1	44.5	41.4	42.6	37.3	30.8	19.8
13:00 - 14:00	46.7	65.4	41.0	55.2	47.7	44.7	42.9	40.4	39.5	37.4	33.0	25.5
14:00 - 15:00	50.0	68.1	45.0	59.7	51.1	47.5	45.8	43.6	42.9	40.9	36.5	29.0
15:00 - 16:00	51.4	68.8	46.0	60.8	51.8	48.5	47.2	45.1	44.6	42.1	37.7	30.3
16:00 - 17:00	46.2	58.0	41.0	55.6	47.3	43.2	41.6	40.2	38.9	37.4	33.9	26.2
17:00 - 18:00	46.3	59.4	42.0	54.6	47.0	43.9	41.6	40.0	39.3	37.9	34.0	26.4
18:00 - 19:00	46.2	60.0	41.0	55.3	46.7	42.0	40.6	39.6	39.6	38.5	34.2	26.3
19:00 - 20:00	49.1	70.5	42.0	61.9	50.6	43.9	42.8	41.9	42.5	42.0	37.6	29.9
20:00 - 21:00	48.8	66.4	43.0	56.7	47.8	43.2	42.4	41.8	42.5	41.9	36.6	28.9
21:00 - 22:00	48.5	63.9	42.0	60.3	49.8	44.7	43.4	41.8	41.8	40.7	35.4	27.0
22:00 - 23:00	47.0	61.2	40.0	59.3	49.0	44.1	42.4	40.0	39.9	38.9	34.0	25.6

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	47.6	66.2	41.0	58.7	49.6	43.9	42.5	40.6	40.7	39.8	35.1	27.0
23:15 - 23:30	47.3	64.5	39.0	60.8	49.9	44.1	42.5	40.2	40.2	39.5	34.9	26.9
23:30 - 23:45	47.4	61.2	41.0	57.5	48.0	43.2	42.2	40.4	40.6	40.0	35.4	27.3
23:45 - 00:00	47.9	59.6	41.0	58.5	48.8	43.9	42.8	40.9	41.0	40.3	35.7	27.8
00:00 - 00:15	47.8	61.4	39.0	58.7	48.9	43.7	42.5	40.7	41.0	40.3	35.9	27.9
00:15 - 00:30	48.8	63.8	42.0	60.8	50.5	45.2	43.8	41.8	41.9	41.0	36.6	28.6
00:30 - 00:45	48.2	64.0	41.0	61.5	50.9	44.8	42.8	40.9	41.1	40.6	36.2	28.3
00:45 - 01:00	47.3	59.3	40.0	56.9	47.9	43.1	42.0	40.2	40.5	39.9	35.5	27.6
01:00 - 01:15	46.5	63.7	40.0	57.3	47.9	43.1	41.4	39.2	39.5	39.0	34.6	26.7
01:15 - 01:30	46.1	61.1	39.0	58.3	47.8	42.3	40.7	38.6	39.1	38.7	34.4	26.5
01:30 - 01:45	44.9	59.0	38.0	56.2	46.1	40.9	39.9	37.7	38.0	37.3	32.9	24.9
01:45 - 02:00	49.2	60.8	42.0	58.8	48.7	43.4	42.3	41.3	43.0	42.7	37.7	29.6
02:00 - 02:15	49.4	58.2	45.0	54.6	46.0	42.1	41.7	41.4	43.6	43.3	37.9	29.7
02:15 - 02:30	50.4	70.7	45.0	59.3	49.4	45.3	44.4	42.8	44.0	43.6	38.4	30.3
02:30 - 02:45	47.3	72.2	41.0	58.6	47.5	42.6	41.9	40.2	40.8	40.0	34.5	26.6
02:45 - 03:00	50.1	64.0	43.0	61.4	50.5	44.4	43.2	42.3	43.9	43.6	38.0	29.6
03:00 - 03:15	58.0	70.8	48.0	60.7	50.4	47.4	48.9	50.2	52.4	52.1	46.0	38.8
03:15 - 03:30	51.0	68.1	45.0	61.8	50.9	45.4	44.7	43.8	44.6	44.2	38.5	30.3
03:30 - 03:45	49.5	62.7	44.0	59.7	49.1	43.9	43.2	42.3	43.2	42.7	37.1	28.7
03:45 - 04:00	50.6	63.3	45.0	60.6	50.5	46.1	44.8	43.4	44.2	43.6	38.2	29.8
04:00 - 04:15	48.0	61.0	44.0	51.9	44.3	41.3	41.1	40.6	42.0	41.7	35.9	27.7
04:15 - 04:30	53.2	68.0	49.0	61.5	51.4	46.8	46.3	45.7	47.0	46.7	41.0	33.0
04:30 - 04:45	55.0	70.7	51.0	64.7	53.4	47.7	47.3	47.3	49.0	48.7	42.8	34.8
04:45 - 05:00	53.2	68.4	48.0	62.6	51.6	46.2	45.8	45.6	47.2	46.7	40.7	32.8
05:00 - 05:15	52.6	70.2	48.0	60.9	49.7	45.3	45.6	45.3	46.5	46.1	40.2	32.3
05:15 - 05:30	57.2	76.8	53.0	62.0	51.5	48.4	49.2	49.5	51.5	51.2	45.0	37.6
05:30 - 05:45	58.5	69.7	55.0	63.2	52.4	48.8	49.8	50.8	52.9	52.6	46.3	38.7
05:45 - 06:00	58.8	75.9	54.0	60.8	51.4	49.7	50.7	51.2	53.2	52.8	46.5	39.2
06:00 - 06:15	54.8	68.3	50.0	58.6	49.7	46.6	47.0	47.3	48.9	48.6	42.5	34.7
06:15 - 06:30	51.6	66.7	47.0	55.1	46.5	43.7	44.2	44.3	45.7	45.3	39.1	31.4
06:30 - 06:45	45.8	62.7	40.0	51.3	47.2	44.4	41.2	38.7	38.8	38.1	32.1	24.4
06:45 - 07:00	41.1	54.2	37.0	44.9	43.6	40.8	36.6	33.5	33.9	33.3	27.1	18.7



11.11 19th – 20th October 2024

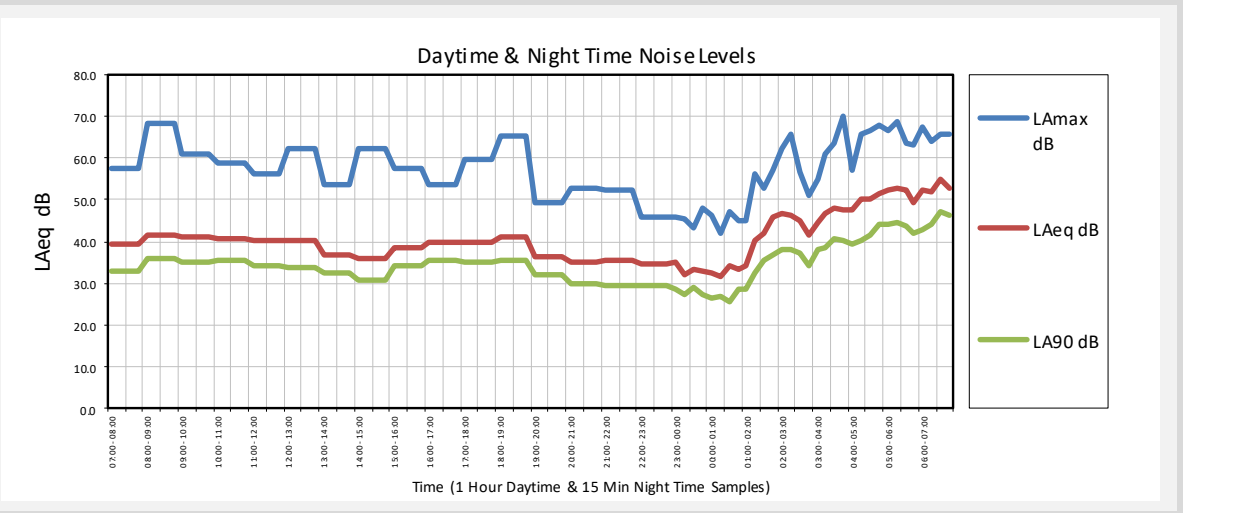
NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	39.1	68.5	36.0	44.9	42.6	38.2	35.0	32.5	31.6	29.8	27.4	15.0
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	48.5	70.1	44.0	60.6	49.5	43.9	42.6	40.8	41.8	41.3	37.4	30.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR 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
07:00 - 08:00	39.2	57.5	33.0	45.1	44.9	40.2	34.0	29.3	28.9	31.0	33.2	17.0
08:00 - 09:00	41.4	68.5	36.0	46.0	43.5	39.0	35.1	34.3	36.1	32.8	27.2	14.1
09:00 - 10:00	41.3	61.0	35.0	49.4	49.2	41.2	37.3	34.3	33.7	29.8	28.9	13.4
10:00 - 11:00	40.8	58.7	36.0	46.5	42.5	40.4	38.3	33.5	32.4	31.1	30.0	16.8
11:00 - 12:00	40.1	56.1	34.0	44.6	42.6	40.1	38.9	32.3	31.3	29.5	26.1	15.6
12:00 - 13:00	40.1	62.3	34.0	44.4	41.5	40.9	35.6	32.7	33.6	30.2	25.8	16.5
13:00 - 14:00	36.7	53.7	33.0	43.3	44.5	36.7	33.2	29.8	27.8	26.7	22.8	13.3
14:00 - 15:00	36.2	62.3	31.0	44.1	39.6	36.2	31.8	28.7	27.7	28.8	22.8	14.4
15:00 - 16:00	38.5	57.5	34.0	45.3	41.5	38.0	34.6	31.7	29.6	27.9	30.9	16.9
16:00 - 17:00	39.8	53.5	36.0	46.5	41.2	39.1	35.9	33.6	32.1	30.0	28.7	18.7
17:00 - 18:00	39.8	59.8	35.0	44.0	41.1	37.2	34.8	33.4	30.8	33.8	27.7	14.1
18:00 - 19:00	41.2	65.4	35.0	44.7	39.2	36.0	34.1	34.6	35.5	33.9	28.1	13.3
19:00 - 20:00	36.4	49.4	32.0	41.6	38.2	33.5	32.5	32.9	28.6	18.6	13.1	11.0
20:00 - 21:00	35.1	52.6	30.0	39.8	33.4	31.7	31.6	31.6	27.4	15.8	13.4	10.3
21:00 - 22:00	35.4	52.4	29.0	41.5	37.7	33.5	31.8	31.2	27.4	21.5	16.2	11.7
22:00 - 23:00	34.6	45.9	29.0	41.6	37.6	33.9	31.0	30.0	26.3	21.4	17.9	12.6

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	35.0	45.7	29.0	41.5	38.9	35.6	32.0	30.0	26.3	21.3	17.6	12.3
23:15 - 23:30	32.0	45.4	27.0	35.7	29.3	28.8	27.6	28.0	24.1	21.0	17.5	12.3
23:30 - 23:45	33.4	43.1	29.0	38.7	29.9	29.2	29.0	29.1	26.0	22.9	19.2	13.2
23:45 - 00:00	33.1	48.1	27.0	39.1	33.6	32.7	29.5	27.5	25.2	23.0	19.4	13.5
00:00 - 00:15	32.7	46.1	27.0	36.8	28.4	28.4	28.8	27.8	25.5	22.5	18.8	12.9
00:15 - 00:30	31.5	42.2	27.0	35.0	27.5	27.8	26.4	27.0	24.2	21.8	18.3	12.7
00:30 - 00:45	34.1	47.1	26.0	40.7	31.6	29.6	29.8	29.4	27.2	23.7	19.7	13.5
00:45 - 01:00	33.5	45.1	29.0	41.1	31.6	29.2	28.3	26.5	26.7	26.2	22.5	15.7
01:00 - 01:15	34.1	44.9	29.0	41.0	32.2	29.8	28.4	26.8	27.4	27.2	23.5	16.5
01:15 - 01:30	40.1	56.2	32.0	50.1	39.0	34.7	33.8	32.0	33.4	33.7	30.1	22.6
01:30 - 01:45	41.9	52.9	36.0	51.2	41.2	36.6	35.8	33.9	35.2	35.5	31.9	24.4
01:45 - 02:00	45.8	57.1	37.0	55.5	45.1	40.2	39.6	38.1	39.1	39.1	35.5	28.0
02:00 - 02:15	46.6	62.1	38.0	60.0	48.4	41.6	40.5	38.9	39.7	39.6	36.0	28.6
02:15 - 02:30	46.4	65.7	38.0	61.8	48.5	41.5	40.3	38.7	39.4	39.2	35.6	28.2
02:30 - 02:45	44.9	56.5	37.0	52.3	43.1	39.4	38.9	37.2	38.3	38.3	34.7	27.2
02:45 - 03:00	41.5	51.2	34.0	47.6	39.1	36.2	35.5	33.4	35.0	35.0	31.0	23.4
03:00 - 03:15	44.6	54.9	38.0	49.6	41.7	39.0	38.6	36.7	38.2	38.1	34.1	26.2
03:15 - 03:30	46.9	61.0	38.0	55.2	45.6	41.4	40.8	39.0	40.6	40.3	36.3	28.5
03:30 - 03:45	48.0	63.6	41.0	58.2	47.8	42.6	41.8	40.1	41.6	41.2	37.2	29.6
03:45 - 04:00	47.8	70.1	40.0	60.6	50.3	43.1	41.8	39.9	41.1	40.7	36.7	29.2
04:00 - 04:15	47.5	57.3	40.0	55.3	45.5	41.6	41.0	39.6	41.3	41.0	36.8	29.0
04:15 - 04:30	50.1	65.8	40.0	63.4	51.8	45.5	44.0	42.3	43.4	43.0	39.2	31.8
04:30 - 04:45	50.1	66.7	42.0	62.9	51.5	45.1	43.9	42.4	43.4	43.0	39.1	31.6
04:45 - 05:00	51.5	68.0	44.0	66.0	54.6	46.8	45.5	43.8	44.6	44.1	40.3	32.9
05:00 - 05:15	52.3	66.7	44.0	66.5	54.8	47.6	46.1	44.7	45.5	44.9	41.2	33.9
05:15 - 05:30	52.7	68.6	44.0	64.1	52.9	47.5	46.7	45.3	46.1	45.5	41.8	34.5
05:30 - 05:45	52.3	63.7	44.0	62.9	52.6	48.1	46.6	44.7	45.7	45.1	41.3	33.9
05:45 - 06:00	49.4	63.1	42.0	62.6	51.0	45.2	43.8	41.9	42.6	42.1	38.3	30.9
06:00 - 06:15	52.2	67.3	43.0	64.0	53.1	48.5	47.1	44.5	45.3	44.8	41.1	33.8
06:15 - 06:30	52.0	63.8	44.0	64.6	53.7	47.9	46.2	44.4	45.2	44.6	40.8	33.4
06:30 - 06:45	54.8	65.9	47.0	66.6	56.1	50.5	48.8	47.1	48.1	47.7	43.7	36.2
06:45 - 07:00	52.7	65.7	46.0	62.3	52.0	47.8	46.8	45.3	46.3	45.7	41.0	32.9

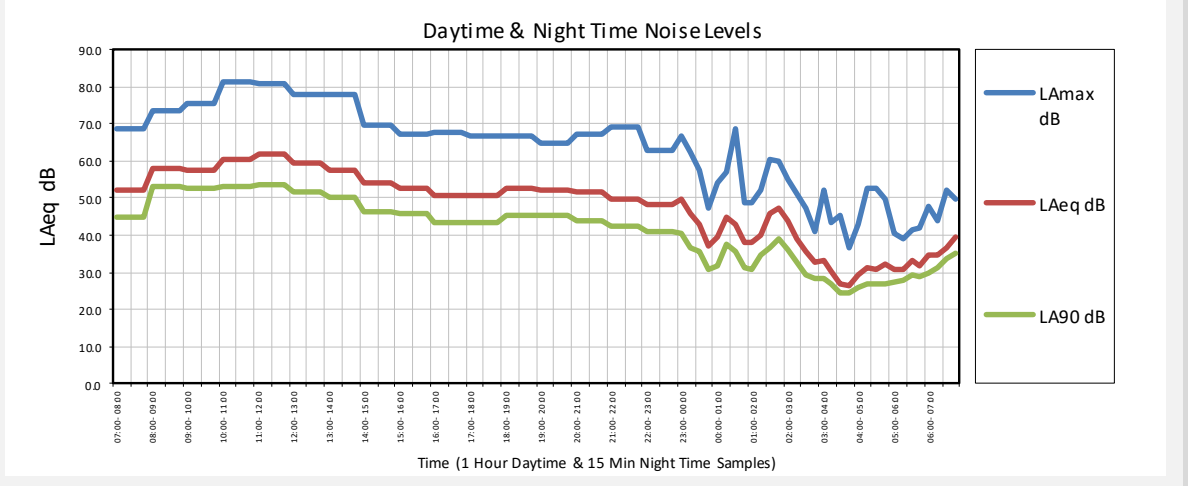


11.12 20th – 21st October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	56.1	81.4	45.0	69.2	59.4	52.5	50.7	49.1	49.4	48.2	42.9	34.8
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	40.9	68.8	27.0	52.8	43.3	38.0	35.9	34.1	33.9	33.0	28.7	20.9

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	52.3	68.4	45.0	61.7	52.7	48.6	47.0	45.0	46.0	44.5	40.0	31.4
08:00 - 09:00	57.9	73.3	53.0	65.6	55.8	50.9	50.5	50.1	51.9	51.6	45.8	38.2
09:00 - 10:00	57.6	75.2	53.0	66.8	57.4	51.7	50.8	50.1	51.4	50.9	44.5	36.5
10:00 - 11:00	60.2	81.4	53.0	73.9	65.0	57.1	54.9	53.1	53.3	51.8	46.4	38.0
11:00 - 12:00	61.7	80.6	54.0	75.8	65.7	58.4	56.8	54.6	54.5	53.3	48.2	40.1
12:00 - 13:00	59.2	77.9	51.0	73.7	63.8	56.2	53.7	52.2	52.3	50.7	45.0	36.9
13:00 - 14:00	57.6	78.0	50.0	70.7	60.9	54.5	52.6	51.0	50.7	48.9	43.3	34.9
14:00 - 15:00	54.2	69.7	46.0	68.1	57.7	51.1	49.1	47.5	47.2	45.7	40.9	32.8
15:00 - 16:00	52.4	67.0	46.0	65.9	55.3	49.2	47.2	45.7	45.4	44.1	39.6	31.7
16:00 - 17:00	50.5	67.8	44.0	64.0	53.8	47.5	45.3	43.9	43.4	42.0	37.6	29.8
17:00 - 18:00	50.6	66.5	43.0	63.1	53.0	47.2	45.5	44.0	43.6	42.2	37.8	29.9
18:00 - 19:00	52.8	66.6	45.0	65.5	55.2	49.1	47.5	46.0	45.9	44.6	40.3	32.7
19:00 - 20:00	52.0	64.7	45.0	64.1	53.8	48.1	46.7	45.2	45.1	43.9	39.7	32.0
20:00 - 21:00	51.8	67.1	44.0	65.3	54.1	47.9	46.4	45.0	44.9	43.6	39.3	31.6
21:00 - 22:00	49.7	69.3	42.0	62.2	52.8	45.8	44.5	43.0	42.8	41.6	37.3	29.4
22:00 - 23:00	48.2	62.8	41.0	59.7	49.9	44.5	43.1	41.5	41.3	40.3	36.0	28.1

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	49.7	66.5	40.0	64.0	53.2	46.2	44.3	42.7	42.7	41.6	37.3	29.3
23:15 - 23:30	45.7	62.1	37.0	58.5	47.1	41.7	40.5	38.9	38.9	37.8	33.4	25.1
23:30 - 23:45	43.0	57.2	36.0	54.8	45.0	39.4	37.9	36.0	36.0	35.3	31.0	22.8
23:45 - 00:00	37.0	47.0	31.0	44.2	36.5	34.2	32.2	29.8	30.0	29.5	25.2	17.4
00:00 - 00:15	39.6	53.8	32.0	50.7	40.8	36.3	34.9	32.6	32.6	31.9	27.8	20.2
00:15 - 00:30	45.0	57.1	38.0	54.7	45.4	40.7	39.9	38.2	38.2	37.5	33.2	25.2
00:30 - 00:45	42.7	68.8	36.0	54.3	43.7	38.7	37.2	35.4	35.6	35.7	31.0	22.8
00:45 - 01:00	38.1	48.5	31.0	45.4	37.9	35.0	33.2	30.8	31.2	30.8	26.6	19.0
01:00 - 01:15	37.8	48.6	31.0	46.4	37.7	34.7	33.0	30.3	30.9	30.5	26.4	18.7
01:15 - 01:30	39.8	52.3	35.0	49.6	40.3	36.3	34.7	32.4	32.8	32.5	28.4	20.6
01:30 - 01:45	45.7	60.2	36.0	57.8	47.2	41.7	40.5	38.7	38.7	38.0	34.0	26.3
01:45 - 02:00	47.1	59.7	39.0	56.6	47.4	42.9	41.9	40.3	40.4	39.5	35.2	27.4
02:00 - 02:15	43.9	54.9	36.0	53.8	44.2	39.7	38.7	36.9	37.1	36.4	32.2	24.3
02:15 - 02:30	38.9	51.3	33.0	46.6	38.5	35.4	34.1	31.8	32.1	31.5	27.2	19.3
02:30 - 02:45	35.8	47.3	29.0	42.7	35.5	33.0	31.0	28.3	28.9	28.6	24.1	16.2
02:45 - 03:00	32.8	41.0	28.0	40.2	33.5	31.3	28.4	24.8	25.7	25.3	20.9	13.7
03:00 - 03:15	33.2	52.2	28.0	41.7	35.1	31.8	28.6	25.2	26.0	25.8	21.6	14.5
03:15 - 03:30	30.3	43.3	27.0	36.2	32.6	30.7	26.6	21.9	22.5	22.1	18.0	12.1
03:30 - 03:45	26.8	45.5	24.0	33.6	31.2	29.0	24.5	19.2	17.6	14.6	12.4	10.1
03:45 - 04:00	26.3	36.5	24.0	33.7	30.7	30.4	25.0	17.3	12.3	11.2	11.2	9.9
04:00 - 04:15	29.3	42.8	26.0	36.4	31.1	29.3	25.9	23.3	21.3	19.2	15.4	10.9
04:15 - 04:30	31.2	52.4	27.0	37.8	33.4	30.5	26.5	23.6	24.0	23.5	19.0	12.3
04:30 - 04:45	30.5	52.6	27.0	38.6	31.7	29.1	26.0	23.4	23.1	22.5	18.0	12.1
04:45 - 05:00	32.3	49.8	27.0	37.6	37.9	35.3	28.4	24.2	23.3	22.2	17.7	11.5
05:00 - 05:15	30.7	40.6	27.0	38.2	31.8	29.3	26.5	24.7	22.8	21.9	17.6	11.8
05:15 - 05:30	30.7	39.1	28.0	36.5	31.2	29.1	27.2	26.0	22.7	18.7	15.0	10.7
05:30 - 05:45	33.1	41.6	29.0	43.2	35.7	32.5	30.0	28.9	24.7	13.2	11.3	9.9
05:45 - 06:00	31.5	41.9	29.0	39.6	34.5	31.5	28.9	27.5	21.5	11.8	11.1	9.9
06:00 - 06:15	34.7	47.9	30.0	51.5	43.3	35.9	30.8	28.9	22.9	11.6	11.1	9.8
06:15 - 06:30	34.6	43.7	31.0	41.7	39.6	35.5	31.7	30.4	24.8	12.8	11.2	9.8
06:30 - 06:45	36.6	52.0	34.0	43.7	41.2	38.2	33.2	31.6	27.7	20.1	11.7	9.9
06:45 - 07:00	39.7	49.6	35.0	48.2	48.7	43.4	36.0	33.6	28.1	13.3	11.5	9.9

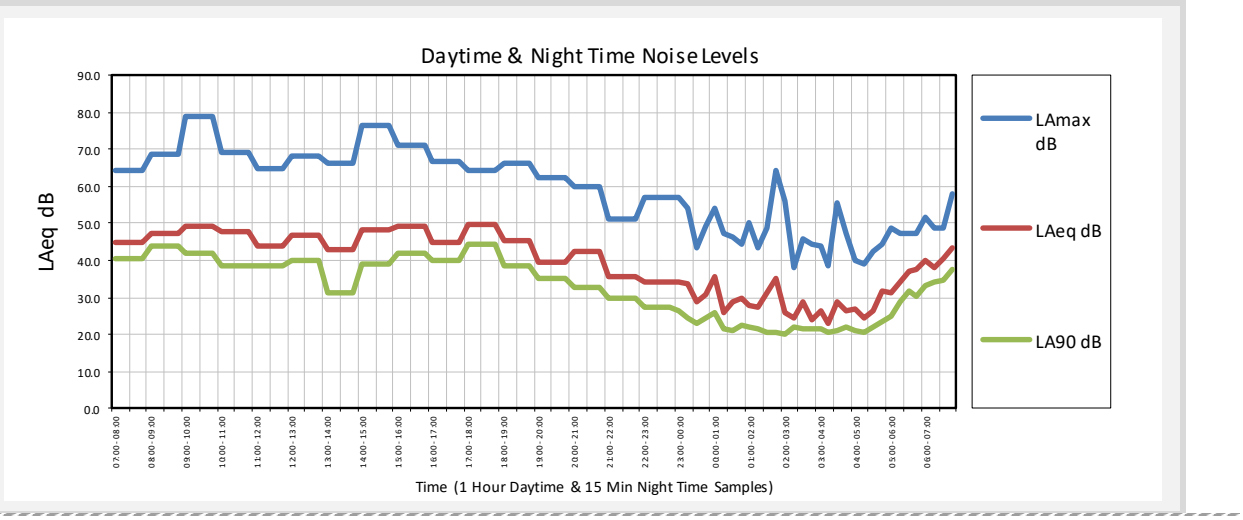


11.13 21st – 22nd October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	46.1	78.8	40.0	51.0	47.9	45.1	42.2	39.7	39.3	35.9	31.8	19.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	34.4	64.4	21.0	41.0	37.4	34.2	31.8	29.4	26.2	17.3	15.7	10.3

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	44.7	64.2	40.0	49.3	46.4	42.4	38.9	39.0	38.5	34.6	33.2	14.2
08:00 - 09:00	47.5	68.7	44.0	53.3	50.0	47.3	44.0	41.8	40.1	35.0	33.1	14.4
09:00 - 10:00	49.2	78.8	42.0	52.6	48.8	45.3	43.1	42.8	43.8	40.2	35.2	20.3
10:00 - 11:00	47.6	69.2	38.0	51.1	49.2	46.9	44.4	41.2	38.7	37.9	37.3	18.2
11:00 - 12:00	44.0	64.5	38.0	51.8	46.3	43.7	40.4	37.4	36.7	33.2	31.1	13.4
12:00 - 13:00	46.7	68.2	40.0	53.8	49.6	45.5	42.3	40.4	41.0	34.8	29.7	12.1
13:00 - 14:00	42.8	65.9	31.0	50.1	48.7	43.0	38.2	35.1	36.6	31.7	28.5	12.4
14:00 - 15:00	48.1	76.1	39.0	54.0	50.1	47.8	47.3	40.8	39.7	35.5	25.7	11.7
15:00 - 16:00	49.2	70.8	42.0	54.7	51.9	50.0	45.7	42.3	42.7	37.1	29.6	16.6
16:00 - 17:00	44.8	66.6	40.0	49.1	47.2	43.9	39.8	38.4	38.5	34.7	29.2	19.9
17:00 - 18:00	49.5	64.3	44.0	47.3	44.9	41.5	41.6	42.7	43.8	42.8	37.1	29.2
18:00 - 19:00	45.3	66.1	39.0	48.8	47.2	45.8	42.9	40.2	36.3	31.4	29.2	15.9
19:00 - 20:00	39.7	62.1	35.0	44.8	42.5	38.7	34.6	35.0	33.2	26.6	16.3	12.7
20:00 - 21:00	42.4	60.0	33.0	49.7	47.6	46.2	41.2	34.7	29.5	20.6	15.0	11.0
21:00 - 22:00	35.5	51.3	30.0	43.8	36.9	33.0	31.9	31.5	27.7	20.0	14.6	10.8
22:00 - 23:00	34.0	56.8	27.0	40.9	37.1	32.9	30.2	30.2	25.5	17.4	13.7	11.4

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	34.1	57.0	27.0	40.2	35.1	30.3	31.0	30.3	26.1	17.1	12.7	10.3
23:15 - 23:30	33.8	54.2	24.0	39.1	34.5	32.7	31.1	29.5	25.6	18.0	13.5	10.7
23:30 - 23:45	28.7	43.3	23.0	34.2	28.9	27.2	24.2	24.5	20.9	16.2	13.0	10.4
23:45 - 00:00	30.6	49.0	25.0	34.1	31.3	29.6	26.9	25.4	22.7	20.3	15.1	11.1
00:00 - 00:15	35.5	53.8	26.0	41.5	31.7	30.6	33.5	30.8	28.1	20.3	15.2	10.7
00:15 - 00:30	26.0	47.0	21.0	28.8	24.6	24.0	21.0	19.6	19.1	17.9	14.1	10.5
00:30 - 00:45	28.6	46.5	21.0	27.9	24.5	24.2	24.5	25.4	20.3	14.0	12.0	10.0
00:45 - 01:00	29.9	44.5	22.0	29.8	27.0	25.7	24.9	26.4	22.8	15.6	12.5	10.0
01:00 - 01:15	27.8	50.1	22.0	29.2	25.4	24.2	22.7	24.4	19.8	15.7	12.8	10.1
01:15 - 01:30	27.5	43.5	21.0	29.9	24.7	23.7	23.0	23.2	20.3	16.4	13.2	10.2
01:30 - 01:45	31.2	48.6	21.0	40.3	28.6	26.3	29.3	26.6	23.7	14.4	11.9	10.0
01:45 - 02:00	35.3	64.4	21.0	30.1	24.6	22.8	18.3	16.0	33.6	20.8	21.3	11.7
02:00 - 02:15	25.8	56.1	20.0	27.7	25.6	23.9	21.4	20.6	17.7	17.0	13.0	10.3
02:15 - 02:30	24.3	38.1	22.0	30.6	28.0	25.4	21.4	16.8	15.4	14.2	12.1	10.0
02:30 - 02:45	29.0	46.0	22.0	33.6	35.9	34.2	26.8	14.8	18.7	14.8	12.5	10.0
02:45 - 03:00	24.1	44.2	22.0	28.8	27.0	25.7	20.8	15.0	16.5	14.7	12.5	10.1
03:00 - 03:15	26.2	43.7	21.0	28.2	24.8	23.5	21.6	21.4	19.1	15.6	12.7	10.2
03:15 - 03:30	23.0	38.4	21.0	26.4	24.1	22.6	17.7	16.2	15.4	15.2	12.5	10.0
03:30 - 03:45	29.0	55.4	21.0	28.4	24.4	23.8	19.7	19.6	26.2	16.6	13.0	10.1
03:45 - 04:00	26.3	47.4	22.0	30.8	28.4	27.7	21.6	19.4	18.8	17.4	13.7	10.3
04:00 - 04:15	26.7	40.0	21.0	30.3	24.3	23.2	22.1	22.6	19.3	15.1	12.4	10.0
04:15 - 04:30	24.3	39.0	21.0	29.5	23.3	22.7	20.2	19.3	16.4	14.1	12.1	10.0
04:30 - 04:45	26.4	42.4	22.0	29.8	24.4	24.4	21.9	21.8	19.2	14.5	12.1	10.0
04:45 - 05:00	31.6	44.2	23.0	32.2	29.9	34.5	30.2	25.9	20.7	15.2	12.3	10.0
05:00 - 05:15	31.1	48.7	25.0	34.4	33.1	31.3	26.9	27.0	22.7	16.0	13.3	10.2
05:15 - 05:30	34.1	47.2	29.0	35.3	32.7	30.5	30.1	30.9	26.3	15.9	12.2	10.0
05:30 - 05:45	37.0	47.1	32.0	43.8	33.2	32.4	33.9	33.7	28.8	14.9	12.2	9.9
05:45 - 06:00	37.4	47.4	30.0	48.5	44.0	35.2	33.3	33.4	29.2	16.0	12.4	10.0
06:00 - 06:15	39.9	51.5	33.0	51.6	46.3	41.7	37.9	34.0	29.5	17.0	12.2	10.0
06:15 - 06:30	37.9	48.5	34.0	42.4	38.1	36.9	35.1	34.1	29.4	15.8	12.0	9.9
06:30 - 06:45	40.6	48.8	35.0	45.1	44.9	42.3	38.6	35.6	30.8	16.4	12.1	9.9
06:45 - 07:00	43.3	57.8	38.0	46.2	46.3	43.9	41.8	37.7	33.3	24.9	26.8	11.3

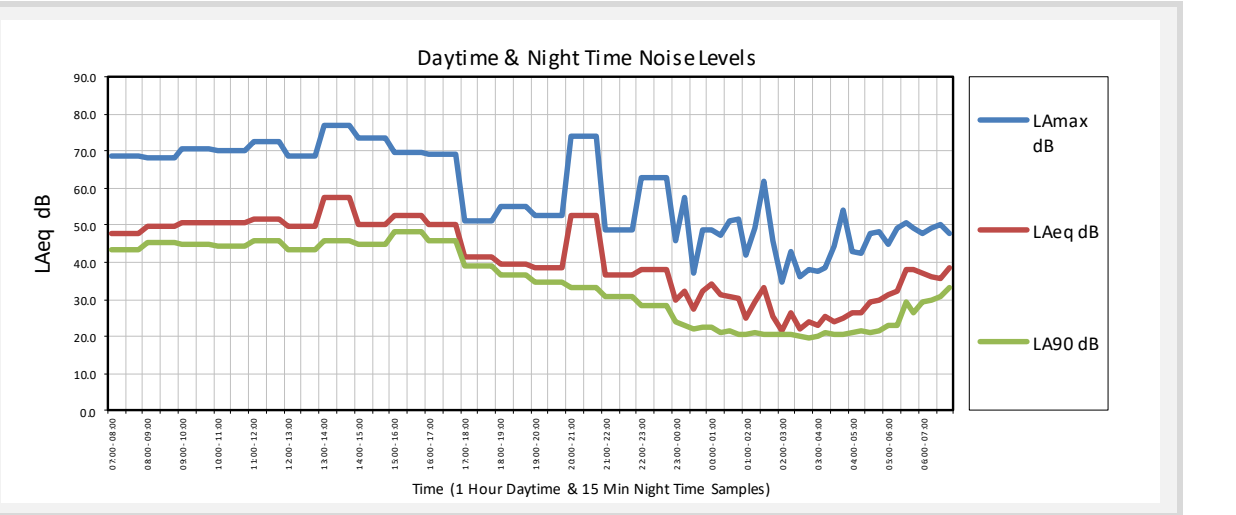


11.14 22nd – 23rd October 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	50.5	76.6	45.0	54.3	48.8	47.0	46.4	44.5	44.2	41.0	34.5	28.2
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	32.3	61.9	21.0	39.7	35.1	31.5	29.3	28.0	24.5	14.4	11.7	9.9

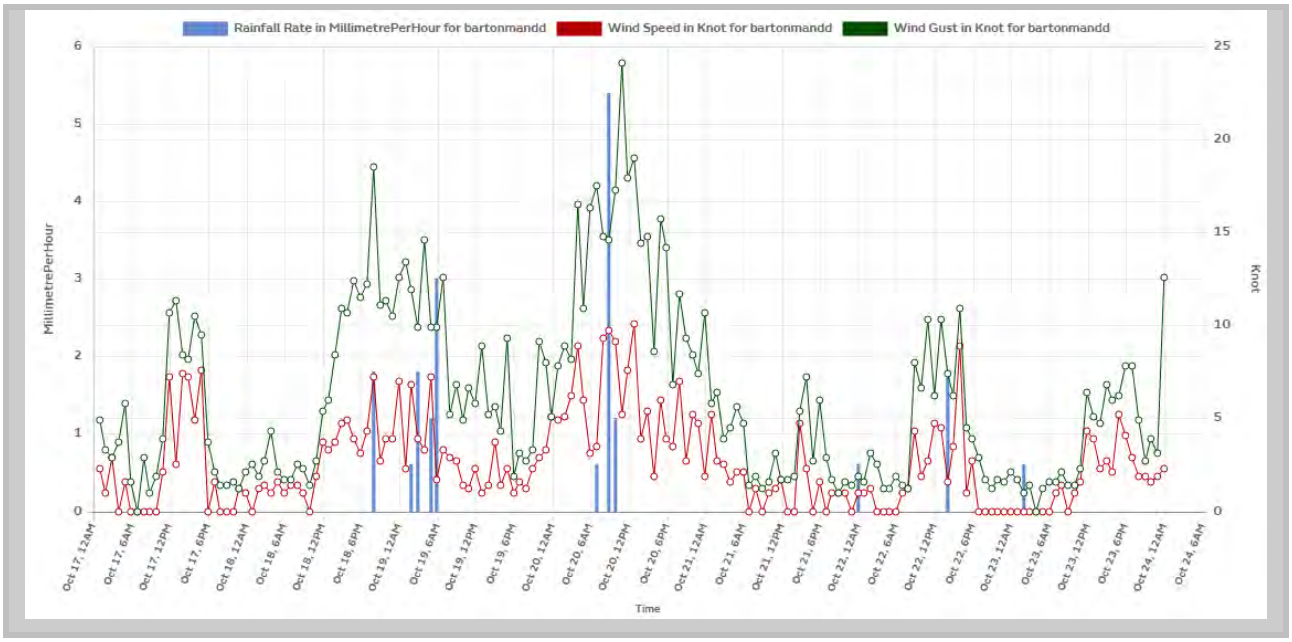
DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	47.8	68.4	43.0	53.0	46.6	44.5	42.8	42.8	41.3	36.2	34.6	14.9
08:00 - 09:00	49.5	68.0	45.0	56.7	49.5	46.6	45.4	44.5	42.5	38.4	34.9	15.1
09:00 - 10:00	50.4	70.4	45.0	51.9	47.4	46.4	47.2	45.3	44.0	37.8	30.2	18.2
10:00 - 11:00	50.5	70.2	44.0	53.3	48.4	46.7	46.7	45.1	44.4	38.9	31.0	21.9
11:00 - 12:00	51.8	72.7	46.0	56.1	51.2	49.3	48.2	46.7	45.4	38.9	29.4	17.5
12:00 - 13:00	49.8	68.6	43.0	58.5	50.0	47.5	45.6	43.8	43.5	39.3	32.5	23.7
13:00 - 14:00	57.5	76.6	46.0	54.6	48.1	48.5	49.2	50.2	51.9	51.2	44.8	39.8
14:00 - 15:00	50.3	73.4	45.0	57.4	52.6	47.0	45.9	44.4	44.3	39.5	30.6	22.0
15:00 - 16:00	52.6	69.4	48.0	57.5	51.5	50.2	49.8	47.0	45.7	39.8	31.6	23.0
16:00 - 17:00	50.3	69.2	46.0	52.9	50.9	48.8	48.1	44.7	43.1	36.0	26.7	16.2
17:00 - 18:00	41.3	51.2	39.0	48.4	45.3	40.4	37.5	36.9	33.4	27.2	23.4	13.7
18:00 - 19:00	39.6	55.1	36.0	45.7	41.4	38.0	35.2	34.8	30.9	29.7	28.2	13.6
19:00 - 20:00	38.5	52.7	35.0	44.7	38.3	36.6	35.5	34.6	30.7	19.2	14.0	13.1
20:00 - 21:00	52.7	73.7	33.0	56.5	51.8	52.1	51.6	45.9	45.4	35.0	18.5	10.1
21:00 - 22:00	36.4	48.9	31.0	41.1	35.0	33.7	33.0	32.7	29.0	16.1	12.3	10.2
22:00 - 23:00	37.9	62.6	28.0	40.9	35.3	34.1	32.0	31.0	29.3	33.1	16.2	10.0

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmax	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	29.9	45.8	24.0	39.8	28.1	27.2	26.5	26.1	22.2	13.2	11.4	9.9
23:15 - 23:30	32.1	57.5	23.0	40.2	32.7	32.8	30.6	27.0	22.3	13.2	11.3	9.9
23:30 - 23:45	27.1	37.1	22.0	31.4	29.7	27.2	24.2	22.5	18.3	12.0	11.2	9.9
23:45 - 00:00	32.2	48.5	23.0	39.2	28.0	28.7	30.1	27.6	24.5	18.0	11.4	9.9
00:00 - 00:15	34.1	48.8	23.0	43.5	33.6	29.4	31.9	29.3	26.8	17.5	11.5	9.9
00:15 - 00:30	31.1	47.1	21.0	37.0	33.0	33.4	29.5	25.3	21.3	13.0	11.4	9.9
00:30 - 00:45	30.5	51.0	22.0	27.5	25.0	25.6	25.6	27.5	23.1	13.7	11.6	9.9
00:45 - 01:00	30.4	51.7	20.0	35.9	31.0	28.7	29.8	24.3	21.9	13.6	11.5	9.9
01:00 - 01:15	24.9	41.7	21.0	32.5	24.6	23.5	20.7	20.0	17.6	12.3	11.4	9.9
01:15 - 01:30	29.5	49.0	21.0	30.3	27.1	27.3	24.9	26.0	22.2	13.5	11.3	9.9
01:30 - 01:45	33.4	61.9	21.0	42.4	27.8	27.9	33.2	28.8	24.5	14.5	11.4	9.9
01:45 - 02:00	25.2	45.9	20.0	29.9	23.6	22.9	21.1	20.5	18.3	13.0	11.6	9.9
02:00 - 02:15	21.6	34.6	20.0	25.9	22.9	23.8	18.2	14.2	12.1	12.1	11.4	9.9
02:15 - 02:30	26.6	42.9	21.0	28.1	25.4	23.7	22.2	23.2	18.5	12.7	11.5	9.9
02:30 - 02:45	21.8	36.2	20.0	26.4	24.1	22.2	19.0	14.2	12.8	12.2	11.9	9.9
02:45 - 03:00	23.8	38.1	20.0	28.9	26.7	22.6	19.4	18.8	16.2	12.3	11.4	9.9
03:00 - 03:15	23.0	37.5	20.0	26.9	22.9	23.4	20.0	16.4	14.7	12.5	11.5	9.9
03:15 - 03:30	25.2	38.4	21.0	27.9	24.8	25.8	23.0	19.5	16.2	12.9	11.4	9.9
03:30 - 03:45	24.1	44.5	21.0	26.8	23.7	23.2	21.0	18.7	15.8	12.9	11.5	9.9
03:45 - 04:00	24.7	54.1	21.0	29.6	24.0	25.6	21.6	19.2	15.8	13.0	11.7	9.9
04:00 - 04:15	26.5	42.8	21.0	29.8	24.5	24.7	22.2	22.2	19.3	13.0	11.5	9.9
04:15 - 04:30	26.5	42.6	21.0	28.4	23.9	24.1	22.4	22.8	18.6	12.7	11.5	9.9
04:30 - 04:45	29.5	47.9	21.0	38.8	34.3	29.6	29.1	22.6	19.7	13.9	11.8	9.9
04:45 - 05:00	29.8	48.0	22.0	28.9	24.5	25.6	24.6	25.8	24.2	13.3	11.6	9.9
05:00 - 05:15	31.2	44.7	23.0	31.9	26.5	26.6	25.8	28.1	24.6	13.5	11.6	9.9
05:15 - 05:30	32.1	49.1	23.0	32.4	32.1	28.5	26.8	29.0	24.8	13.6	11.7	9.9
05:30 - 05:45	37.9	50.4	29.0	46.2	35.5	33.5	35.1	34.4	30.3	15.5	11.6	9.9
05:45 - 06:00	38.1	49.4	27.0	42.3	36.7	37.7	35.1	33.9	30.0	17.0	12.3	10.0
06:00 - 06:15	37.1	47.9	29.0	45.6	40.8	35.6	33.5	32.8	30.0	17.5	11.9	9.9
06:15 - 06:30	35.9	49.3	30.0	46.6	41.7	32.6	31.3	31.6	29.3	16.1	12.5	9.9
06:30 - 06:45	35.7	50.3	31.0	42.3	37.1	33.3	32.7	31.6	28.3	16.0	11.8	9.9
06:45 - 07:00	38.5	47.9	33.0	46.1	46.4	41.9	34.2	32.9	28.4	17.1	13.5	10.0



12 APPENDIX C – WEATHER CONDITIONS

12.1 17th – 23rd October 2024



13 APPENDIX D – BS 4142:2019+A1:2019 INFORMATION

In accordance with BS 4142:2014:A1:2019, section 12, the following information is provided.

13.1 Professional Competence

Acoustic Consultant	Mr Brian Scrivener MIOA
Qualifications	Member of the Institute of Acoustics (MIOA)
Date Certified	June 2003
Time Operating as an active Noise Consultant	Permanently Since June 2003
Professional Position	Owner of Sound Advice Acoustics Ltd & Sound Advice Engineering Managing Director & Share Holder
Professional Status	Noise Consultant
Professional Statement	
I have been active within the field of noise consultancy and noise control engineering since I joined the company in April 1997. Working my way through the company and gaining experience in this specialist field, I qualified as a noise consultant in June 2003 when I passed my Diploma in Noise Control & Engineering from Epsom College under the tutor of Dr Latha Vesudevan. Subsequently I was awarded the status of 'Member of the Institute of Acoustics (MIOA)'. Since then, I have taken over the company and continued to work and develop my professional competence within the field of acoustic consultancy, engineering and noise control.	

13.2 Site Status

Site Attended By	Mr Brian Scrivener MIOA
Baseline Measurements Conducted by	Mr Brian Scrivener MIOA
Site Source Measurements Conducted By	Mr Brian Scrivener MIOA

13.3 Measurement Information – Location 1

Details & Justification	Measurement position 1 was located at the rear of the existing premises, representative of the Nearest Nosie Sensitive Premises
Height from Ground	1.5m
Reflective Surfaces	None (Free Field)
Distance to NSP	2m
Distance to Source	2m
Topographical Change (m)	None
Ground between Source and Receiver	100% Hard surface from kitchen extract louvre to residential flats above
Windshield Information	Norsonic Outdoor Microphone Protection Kit Model No: 1212
Distance from Proposed Source to Receiver	2m
NSP* - Noise Sensitive Premises	

END OF REPORT

APPENDIX B – COMPLAINT REPORT FORM

Customer Details	
Customer Name -	
Address – **Postcode -**	
Customer Contact Details -	
Tel -	
Email -	
Date -	
Complaint Ref Number -	
Complaint Details -	

Investigation Details	
Investigation carried out by -	
Position -	
Date & time investigation carried out -	
Weather conditions -	
Wind direction and speed -	
Investigation findings -	
Feedback given to Environment Agency and/or local authority -	
Date feedback given -	
Feedback given to public -	
Date feedback given -	

Review and Improve	
Improvements needed to prevent a reoccurrence -	
Proposed date for completion of the improvements -	
Actual date for completion -	
If different insert reason for delay -	
Does the N&VMP need to be updated -	
Date that the N&VMP was updated -	

Closure	
Site manager review date	
Site manager signature to confirm no further action required	

Prepared by:

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463 Lichfield Road
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Sutton Coldfield
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