REPORT REFERENCE:

SA - 5751

ENVIRONMENTAL NOISE IMPACT ASSESSMENT

PRoPG Planning and Noise

British Standard 8233: 2014 World Health Organisation (WHO) British Standard 6472 & 7385

CLIENT:

Persimmon Homes Thames Valley

SITE:

Land North West of Goring Station Littlehampton Road (Ferring Rife) Goring BN12 6QT

SURVEY DATES:

25th – 29th October 2018

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1 EXECUTIVE SUMMARY

1.1 Instruction

Sound Advice Acoustics Ltd have been instructed by Persimmon Homes Thames Valley to undertake a background noise survey to British Standard 8233: 2014 and British Standard 6472 & 7385 to determine the impact of existing noise and vibration sources on the proposed development at Land North West of Goring Station, Littlehampton Road (Ferring Rife), Goring, BN12 6QT.

1.2 Scope of Report

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

- Existing background noise levels within the area;
- Assess the potential internal noise levels on the proposed rooms;
- Provide specifications for the ventilation and window glazing with the proposed rooms.
- Vibration Assessment

1.3 Summary of Results

1.3.1 Background Noise Levels

A 96 hour background noise survey was undertaken from $25^{th} - 29^{th}$ October 2018 at three positions in order to establish the underlying background noise levels. The maximum day time levels at position 1 were found to be L_{Aeq, 16} hour 71.7 dB and the maximum night time levels were found to be L_{Aeq, 8 hours} 64.3 dB. The maximum day time levels at position 2 were found to be L_{Aeq, 16 hour} 66.0 dB and the maximum night time levels were found to be L_{Aeq, 8 hours} 56.0 dB. The maximum day time levels at position 3 were found to be L_{Aeq, 16 hour} 60.8 dB and the maximum night time levels were found to be L_{Aeq, 8 hours} 57.5 dB.

Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 1	25/10/2018	29/102018	71.7	64.3
Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 2	25/10/2018	29/10/2018	66.0	56.0
Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 3	25/10/2018	27/10/2018	60.8	57.5



1.4 Potential Façade Noise Levels – Position 1

1.4.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low
Average Daytime (07:00-23:00)	LAeq, 16 HOUR 61 dB	50 - 63 dB

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

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 2 - Medium
Average Night Time (23:00-07:00)	L _{Aeq, 16 HOUR} 55.0 dB	55 - 60 dB
,	Maximum (10 Times) – L _{Amax} 79.5 dB	>80 dB (10 Times in 8 Hours)

1.5 Risk Assessment

1.5.1 Daytime (07:00-23:00)

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

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

Risk Assessment Category	Risk Assessment
	As noise levels increase, the site is likely to be less suitable from a noise perspective and any
	subsequent application may be refused unless a good acoustic design process is followed and is
2 - Medium	demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and
	minimised, and which clearly demonstrate that a significant adverse noise impact will be avoided
	in the finished development.

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 2 which suggests a Medium level of risk for night time levels. Therefore, further mitigation levels will be required at Stage 2.



1.6 Summary of Vibration

The following vibration levels have been assessed over a typical period between $25^{th} - 29^{th}$ October 2018. The following table summarises these results:-

Time Period	Vibration Dose Value m/s1.75			Peak Particle Velocity mm/s	
	L T V			Resultant Vector	
25 th October 2018 – 14 Hr	0.027	0.027	0.052	*20.0mm/s	
26 th October 2018 – 16 Hr	0.038	0.037	0.08	2.53mm/s	
27 th October 2018 – 16 Hr	0.039	0.044	0.109	2.88mm/s	
28 th October 2018 – 16 Hr	0.037	0.039	0.084	3.30mm/s	
25 ^{th –} 26 th October 2018 – 8 Hr	0.033	0.029	0.046	1.53mm/s	
26 ^{th -} 27 th October 2018 – 8 Hr	0.034	0.035	0.088	3.30mm/s	
27 th – 28 th October 2018 – 8 Hr	0.032	0.032	0.052	1.78mm/s	
28 th – 29 th October 2018 – 8 Hr	0.031	0.032	0.055	2.05mm/s	
Table 3 Summary of daily VDV and PPV					

*Denotes initial set up values of vibration.

The vibration results indicate that vibration dose values (vdv) at the measurement locations are below 0.2 - 0.4 for daytime and night time periods. These values are below the range associated with 'low probability of adverse comment'.

The maximum peak particle velocity recorded was found to be 3.30 mm/s at Location 1. In accordance with the guidance in BS7385, this value is below the limit at which cosmetic damage to a building is likely.

The results of this vibration survey indicate that in accordance with the advice given in the appropriate standards, there is likely to be no concern of adverse comments from future occupants of their properties and no concern of cosmetic damage to buildings arising from vibration at this measurement location.

1.7 Glazing & Ventilation Specification

The development should be designed as shown in the table below or similarly approved to all rooms to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014. It will also be necessary to upgrade the ceiling in the loft rooms to 2 x 15mm soundbloc with a night time façade level > 51 dB.

Night Time Façade level	Ground Floor Lounge	Mid Floor Master Bedroom	Top Floor Bedroom 2
51 - 55 dB	6mm – 6 – 16 / 4mm	6mm / 16mm Argon / 6.8	6mm / 16mm Argon / 6.8
	With MVHR	Pilkington Optiphon with MVHR	Pilkington Optiphon with MVHR
46 - 50 dB	4mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon V75/C75 Vent	With Titon V75/C75 Vent
<45 dB	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon standard vent / C25	With Titon standard vent / C25

1.8 WHO Guidelines for Community Noise

The development proposes external living areas and therefore an assessment to the World Health Organisation's 'Guidelines for Community Noise' has been carried out. The guideline has been considered acceptable criteria for this assessment given the sites geographical location and proximity to a major road and railway. Calculations have indicated external living spaces are likely to be below the upper guideline of 55 dB.

1.9 Conclusion

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

National Planning Policy Framework 2019 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

Based on the calculations and assessments made within this report it is the professional opinion of Sound Advice Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2019, NPPF & NPSE



2 INTRODUCTION

Sound Advice Acoustics Ltd have been instructed by Persimmon Homes Thames Valley to undertake a background noise survey to British Standard 8233: 2014 and British Standard 6472 & 7385 to determine the impact of existing noise and vibration sources on the proposed development at Land North West of Goring Station, Littlehampton Road (Ferring Rife), Goring, BN12 6QT.

Ambient noise levels were measured between $25^{th} - 29^{th}$ October 2018. This report by Sound Advice Acoustics Ltd gives the results of these measurements and an assessment in accordance with government planning guidelines and relevant standards together with mitigation measures as required.

With regards to external ambient noise, environmental noise levels are be monitored at the site in accordance with British Standard 7445: 2003 'Description and measurement of environmental noise assessments and assessments made in-line with PRoPG: Planning and Noise.

2.1 Planning Practice Guidance and Noise

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

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

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

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

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

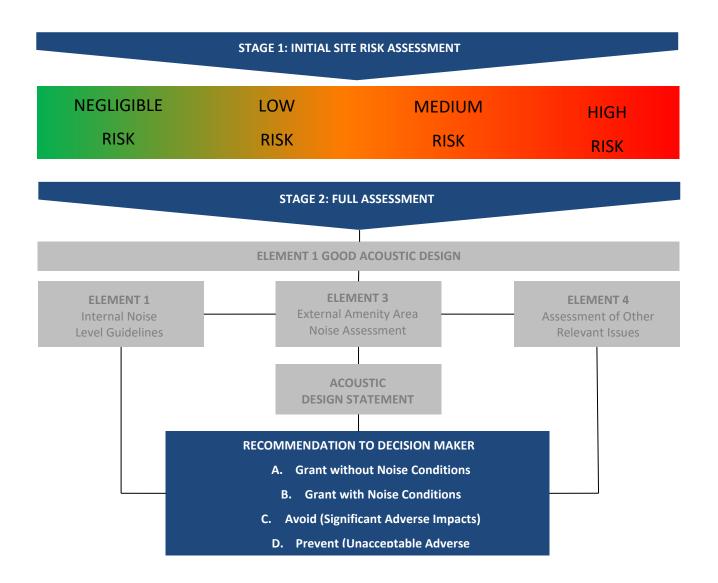


2.1.1 Professional Practice Guidance on Planning & Noise.

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

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

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





2.2 British Standard 8233: 2014

Calculations are to be made in accordance with BS 8233: 2014 Sound Insulation and Noise Reduction for Buildings Code of Practice.

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

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

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

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



2.3 National Planning Policy Framework 2019 (NPPF) and Noise Policy Statement for England 2010 (NPSE).

References and evaluations are to be made to the National Planning Policy Framework 2019 (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.

2.3.1 "Significant adverse" and "adverse"

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

2.3.2 NOEL – No Observed Effect Level

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

2.3.3 LOAEL – Lowest Observed Adverse Effect Level

This is the level above which adverse effects on health and quality of life can be detected. Extending these concepts for the purpose of this NPSE leads to the concept of a significant observed adverse effect level.

2.3.4 SOAEL – Significant Observed Adverse Effect Level

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

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

2.4 World Health Organisation 'Guidelines for Community Noise'

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

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

3 SITE LOCATION

Position of Site in Wider Area

The site is located in Goring. The dominant noise source is road traffic and railway noise.





3.1 Proposed Development

The proposed development is shown below.





4 PROCEDURE

External noise levels were recorded over a typical period and analysis date extrapolated between 07:00 hrs 25th October and 07:00 hrs on 29th October at 3 positions as detailed on the attached plan sketch layout.

Position 1 was located at the Northern boundary of the site in order to capture the noise levels associated with the A27, Position 2 was located at the Eastern boundary of the site in order to capture the noise levels associated with Goring Street (A259). Position 3 was located at the Southern boundary of the site in order to capture the noise levels associated with the railway. Sample measurements were recorded over continuous 15 minute samples and from this data the hourly LAeq daytime values have been evaluated. Sound Pressure Levels were recorded on the following setting along with a full octave band frequency analysis measured simultaneously and between 31.5 Hz and 16.0 kHz.

<u>Daytime 07:00 – 23:00</u>	<u>Night Time 23:00 – 07:00</u>
L _{Aeq 1 HOUR} dB L _{A10 1 HOUR} dB	LAeq 15 MINUTES dB LA10 15 MINUTES dB
L _{AMAX 1 HOUR} dB L _{AS0 1 HOUR} dB	LAMAX 15 MINUTES dB LASO 15 MINUTES dB
L _{AMIN 1 HOUR} dB L _{A90 1 HOUR} dB	LAMIN 15 MINUTES dB LA90 15 MINUTES dB

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

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

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



5 APPARATUS

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

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

5.1 140 noise meter s/n 1402941 environmental testing – Position 1

Description	Make	Туре	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	140	<u>1402941</u>	2 YEARS	12.06.2018	12.06.2020
12.5mm Microphone (with windshield)	Norsonic	GRAS 40AF	<u>179711</u>	2 YEARS	12.06.2018	12.06.2020
Microphone Pre – Amplifier	Norsonic	1209	<u>30479</u>	2 YEARS	12.06.2018	12.06.2020

5.2 118 noise meter s/n 31471 environmental testing – Position 2

Description	Make	Туре	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	118	<u>31471</u>	2 YEARS	25.09.2018	25.09.2020
12.5mm Microphone (with windshield)	Norsonic	1225	<u>57535</u>	2 YEARS	25.09.2018	25.09.2020
Microphone Pre – Amplifier	Norsonic	1206	<u>30687</u>	2 YEARS	25.09.2018	25.09.2020

5.3 118 noise meter s/n 31632 environmental testing – Position 3

Description	Make	Туре	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	118	<u>31632</u>	2 YEARS	01.05.2018	01.05.2020
12.5mm Microphone (with windshield)	Norsonic	1225	<u>91720</u>	2 YEARS	01.05.2018	01.05.2020
Microphone Pre – Amplifier	Norsonic	1201	<u>29307</u>	2 YEARS	01.05.2018	01.05.2020

Full calibration certificates are available upon request.

6 RESULTS

L _{Aeq,t} -	The equivalent A weighted sound pressure level recorded over a time interval of 5 minutes night time and 1 hourly daytime.
L _{A90,t} -	The A weighted sound pressure level that is exceeded for 90% of the time period 5 minutes night time and 1 hourly daytime.
L _{A50,t}	The A weighted sound pressure level that is exceeded for 50% of the time period 5 minutes night time and 1 hourly daytime
L _{A10,t} -	The A weighted sound pressure level that is exceeded for 10% of the time period 5 minutes night time and 1 hourly daytime
L _{Amax} -	The maximum A weighted sound pressure level recorded over a time interval of 5 minutes night time and 1 hourly daytime.
L _{Amin} -	The minimum A weighted sound pressure level recorded over a time interval of 5 minutes night time and 1 hourly daytime.

6.1 Downloaded results, and averages

6.1.1 25th – 26th October 2018 – POSITION 1

NOISE LEVEL SUMMARY ASSESS	Octave Band Centre Frequency (Hz)											
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeg 16 HOUR & Corresponding LAmax 16 HOUR	71.3	100.9	64.4	67.4	64.0	61.6	62.6	68.6	65.8	54.5	48.2	38.3
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	62.9	85.8	56.3	59.7	57.5	53.2	54.1	60.4	57.0	46.1	34.8	16.6

6.1.2 26th – 27th October 2018 – POSITION 1

NOISE LEVEL SUMMARY ASSESS	MENT					Octave Band Centre Frequency (Hz)							
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k	
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	71.4	101.3	63.8	67.6	64.4	61.7	62.5	68.7	66.0	54.7	43.6	25.0	
NIGHT TIME 23:00 - 07:00 LAeg 8 HOUR & Corresponding LAmax 8 HOUR	63.6	83.8	55.0	58.5	56.0	52.7	54.2	61.1	57.9	46.7	33.9	15.8	

6.1.3 27th – 28th October 2018 – POSITION 1

NOISE LEVEL SUMMARY ASSESS	Octave Band Centre Frequency (Hz)											
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	71.6	100.4	63.4	67.5	65.1	62.0	62.8	69.1	65.9	54.2	42.4	25.0
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	64.3	84.4	57.2	59.2	57.1	54.3	55.0	62.0	58.2	47.6	39.5	23.9

6.1.4 28th – 29th October 2018 – POSITION 1

NOISE LEVEL SUMMARY ASSESS		Octave Band Centre Frequency (Hz)										
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	71.7	100.8	64.9	66.3	62.9	60.7	62.3	69.3	65.8	54.8	44.5	28.3
NIGHT TIME 23:00 - 07:00 LAeg & HOUR & Corresponding LAmax & HOUR	62.7	85.7	56.1	57.3	57.9	52.2	53.4	60.3	56.7	45.8	34.3	17.3

6.1.5 25th – 26th October 2018 – POSITION 2

NOISE LEVEL SUMMARY ASSESS	MENT					Octave	Octave Band Centre Frequency (Hz)							
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k		
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	66.0	104.3	67.5	70.5	66.8	64.6	59.1	60.3	59.1	58.6	48.6	37.5		
NIGHT TIME 23:00 - 07:00 LAeg 8 HOUR & Corresponding LAmax 8 HOUR	56.0	88.3	56.9	61.0	60.0	55.9	49.2	50.8	48.8	46.9	32.7	17.4		

6.1.6 26th – 27th October 2018 – POSITION 2

NOISE LEVEL SUMMARY ASSESSI	Octave Band Centre Frequency (Hz)											
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	63.9	90.2	67.4	70.7	66.5	64.5	57.5	58.2	56.4	55.4	42.3	27.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	55.4	80.1	56.4	60.8	58.6	55.1	48.6	50.4	48.6	45.9	31.1	16.1

6.1.7 27th – 28th October 2018 – POSITION 2

NOISE LEVEL SUMMARY ASSESS	Octave Band Centre Frequency (Hz)											
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	63.8	89.3	66.0	69.7	66.7	64.7	58.2	58.2	56.4	54.1	40.4	14.6
NIGHT TIME 23:00 - 07:00 LAeg & HOUR & Corresponding LAmax & HOUR	55.3	81.2	56.3	59.8	57.1	54.2	48.0	50.0	48.5	47.1	32.9	19.8

6.1.8 28th – 29th October 2018 – POSITION 2

NOISE LEVEL SUMMARY ASSESSMENT					Octave	Octave Band Centre Frequency (Hz)						
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	63.6	93.7	64.4	68.2	65.8	63.8	56.4	57.8	57.1	54.9	41.7	26.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	53.9	77.3	55.3	58.7	55.5	52.8	46.9	48.8	47.4	44.9	30.4	16.0

6.1.9 25th – 26th October 2018 – POSITION 3

NOISE LEVEL SUMMARY ASSESSMENT					Octave	Octave Band Centre Frequency (Hz)						
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	60.1	85.8	62.1	61.6	57.5	55.7	55.5	56.9	52.6	45.5	39.9	33.0
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	53.2	87.2	55.6	54.5	50.6	48.7	48.9	50.2	45.2	38.6	34.2	24.3

6.1.10 26th – 27th October 2018 – POSITION 3

NOISE LEVEL SUMMARY ASSESSMENT					Octave	Octave Band Centre Frequency (Hz)						
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmax 16 HOUR	60.8	88.0	66.9	63.1	57.6	56.6	56.4	57.5	53.2	46.2	42.2	33.8
NIGHT TIME 23:00 - 07:00 LAeg & HOUR & Corresponding LAmax & HOUR	57.5	92.8	58.6	59.0	55.8	54.3	54.0	53.9	49.8	42.3	37.0	29.5



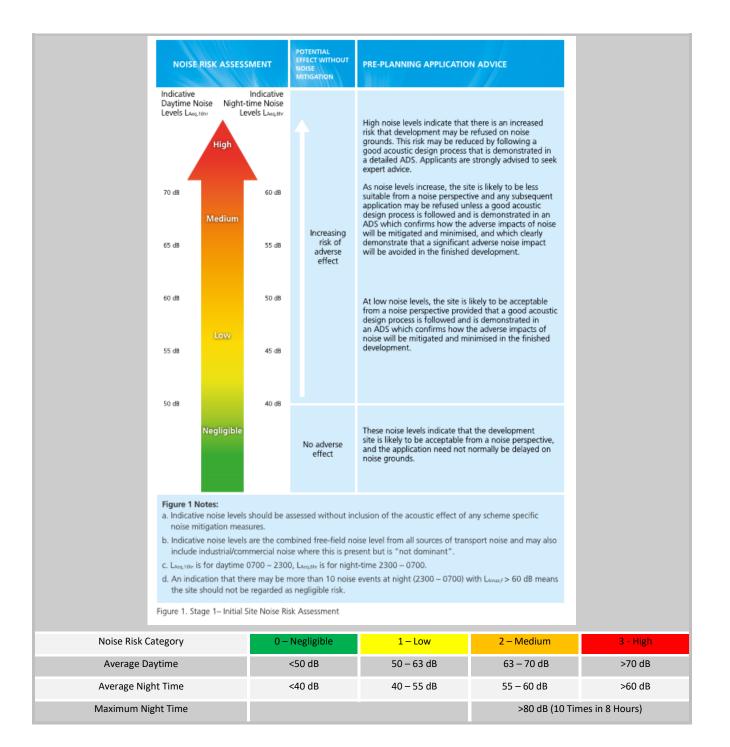
7 PRoPG PLANNING & NOISE STAGE 1

7.1 Stage 1: Initial Site Noise Risk Assessment

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

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

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





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

7.2 Potential Façade Noise Levels

7.2.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low
Average Daytime (07:00-23:00)	L _{Aeq, 16 HOUR} 61 dB	50 - 63 dB

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

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 2 - Medium
Average Night Time (23:00-07:00)	L _{Aeq, 16 HOUR} 55.0 dB	55 - 60 dB
Average Night Time (23.00-07.00)	Maximum (10 Times) – L _{Amax} 79.5 dB	>80 dB (10 Times in 8 Hours)

7.3 Risk Assessment

7.3.1 Daytime (07:00-23:00)

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

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

Risk Assessment Category	Risk Assessment
	As noise levels increase, the site is likely to be less suitable from a noise perspective and any
	subsequent application may be refused unless a good acoustic design process is followed and is
2 - Medium	demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and
	minimised, and which clearly demonstrate that a significant adverse noise impact will be avoided
	in the finished development.

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 2 which suggests a Medium level of risk for night time levels. Therefore, further mitigation levels will be required at Stage 2.



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

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

9 ELEMENT 2 – INTERNAL NOISE LEVEL GUIDELINES

9.1 Discussion of Results

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

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



9.3 Existing Noise Levels – Night Time (23:00 – 07:00)





9.4 Proposed Noise levels West – Daytime (07:00 – 23:00)



-4 -8 <u>6</u> 320--8 80 -99.0 dB 35.0 dB 40.0 dB 45.0 dB <u>61</u>~ 51)-49 50.0 dB £51)5 55.0 dB 1 51 51 5 60.0 dB 65.0 dB PIBARUG 70.0 dB -8-75.0 dB 80.0 dB > 85.0 dB Daytime East

9.5 Proposed Noise levels East – Daytime (07:00 – 23:00)



9.6 Proposed Noise levels West – Night Time (23:00 – 07:00)



9.7 Proposed Noise levels East – Night Time (23:00 – 07:00)





9.8 Recommendations

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

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

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



9.9 Calculation Procedure to BS 8233: 2014

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

9.10 Ground Floor Lounge

Prop	oosed Window Con	figuration		6 / 6 - 16 / 4 with MVHR						
	F	açade corrected to	o daytime 61 dB &	time 61 dB & night time 55 dB						
Leqff	The equivalent co	ntinuous sound pre	ssure level outside	the room elements	under considera	ation				
A0	The reference abs	sorption area of 10n	n2 and is independe	ent of frequency						
Sf	The total façade a	rea of the room in o	question							
Swi	The area of the w	indows in the room								
Sew	The area of the ex	cternal wall of the ro	oom							
Srr	The area of the ce	eiling of the room (if	applicable)							
S	The total area of t	The total area of the elements through which sound enters the room								
Dne	The insulation val	The insulation value of the trickle ventilator (if applicable)								
Rwi	The sound reduct	ion index of the win	dow							
Rew	The sound reduct	ion index of the exte	ernal wall							
Rrr	The sound reduct	ion index of the ceil	ing/roof (if applicabl	e)						
Α	The equivalent ab	sorption area of the	e receiving room wh	ere A=0.163V/T						
Formula	Drmula Leq2=Leqff+10log[A0/S*10^(-Dne/10)+Swi/S*10^(-Rwi/10)+Sew/10*10^(-Rew/10)+Srr/S*10^(-Rrr/10)] +10log(S/A) +3									
	Octave Band Centre Frequency (Hz)									
	125	250	500	1000	2000	4000				
Sf	16	16	16	16	16	16				
Sr	0	0	0	0	0	0				
Swi	9	9	9	9	9	9				
Sew	7	7	7	7	7	7				
Srr	0	0	0	0	0	0				
S	16	16	16	16	16	16				
A0	10	10	10	10	10	10				
v	63	63	63	63	63	63				
T (BS8233)	0.50	0.50	0.50	0.50	0.50	0.50				
Α	11.0	14.0	16.0	16.0	15.0	14.0				
Daytime Leqff	61.8	59.6	54.1	55.3	54.1	53.6				
Night time Leqff	53.3	51.8	51.5	51.4	47.3	39.8				
Dne	40.0	44.0	45.0	51.0	56.0	56.0				
Rwi	21.0	20.0	26.0	38.0	37.0	39.0				
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
	28.0	34.0	40.0	45.0	49.0	49.0				
Rrr	20.0	04.0	-0.0	-0.0	-10.0	-0.0				
Predicted dB(A) Level F	Within The Above Roo Iours (07:00-23:00)	om During Daytime	L _{Aeq 16} HOUR	34	l.1	dB(A)				
	l Within The Above Ro e Hours (23:00-07:00)		L _{Aeq 8 HOUR}	27	27.5 dB(/					

9.11 First Floor Master Bedroom

Proj	oosed Window Con	-		l6 Argon / 6.8 Pilki	ington Optiphor					
		-	o daytime 61 dB & r	-						
Leqff			ssure level outside tl		Inder considerati	on				
A0		The reference absorption area of 10m2 and is independent of frequency								
Sf		The total façade area of the room in question								
Swi	The area of the windows in the room									
Sew		ternal wall of the ro								
Srr		The area of the ceiling of the room (if applicable)								
S		The total area of the elements through which sound enters the room								
Dne			tilator (if applicable)							
Rwi		on index of the win								
Rew		on index of the exte								
Rrr			ing/roof (if applicable							
Α	The equivalent ab	sorption area of the	receiving room whe	re A=0.163V/T						
Formula	Log2-Logff+10	log[A0/S*104/ Dpo/10)+Swi/S*10^(-Rwi/10)+\$	Sow/10*100(Bow/10)	Srr/S*100(Drr/10)	1,10log(S/A),12				
Torniala	Leq2=Leq11+10		J+3WI/3 10 (-I(WI/10)+	Sew/10/10-(-Rew/10)-	-Sil/S 10 (-Kil/10)	J + 10109(3/A) +3				
			Octave Band Centr	e Frequency (Hz)						
	125	250	500	1000	2000	4000				
Sf	10	10	10	10	10	10				
Sr	0	0	0	0	0	0				
Swi	6	6	6	6	6	6				
Sew	4	4	4	4	4	4				
Srr	0	0	0	0	0	0				
S	10	10	10	10	10	10				
AO	10	10	10	10	10	10				
V	40	40	40	40	40	40				
T (BS8233)	0.50	0.50	0.50	0.50	0.50	0.50				
	11.0	14.0	16.0	16.0	15.0	14.0				
A Deutime Leuff	61.8	59.6	54.1	55.3	54.1	53.6				
Daytime Leqff	53.3	51.8	51.5	51.4	47.3	39.8				
ight time Leqff			45.0							
Dne	40.0	44.0		51.0	56.0	56.0				
Rwi	21	28	37	48	48	54				
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
Rrr	28.0	34.0	40.0	45.0	49.0	49.0				
• •	Within The Above Roc Iours (07:00-23:00)	m During Daytime	L _{Aeq 16 HOUR}	27.	.4	dB(A)				
• •	el Within The Above Ro le Hours (23:00-07:00)		LAeq 8 HOUR	19	.8	dB(A)				

9.12 Top Floor Bedroom 2

Prop	oosed Window Con	figuration	6 / 1	6 / 16 Argon / 6.8 Pilkington Optiphon with MVHR						
	Fa	açade corrected to	o daytime 61 dB & r	night time 55 dB						
Leqff	The equivalent co	ntinuous sound pres	ssure level outside ti	he room elements u	Inder considerati	on				
A0	The reference abs	The reference absorption area of 10m2 and is independent of frequency								
Sf	The total façade a	The total façade area of the room in question								
Swi	The area of the wi	ndows in the room								
Sew	The area of the ex	The area of the external wall of the room								
Srr		The area of the ceiling of the room (if applicable)								
S		he total area of the elements through which sound enters the room								
Dne			tilator (if applicable)							
Rwi		on index of the wind								
Rew		on index of the exte								
Rrr			ing/roof (if applicable							
Α	The equivalent ab	sorption area of the	receiving room whe	ere A=0.163V/T						
Formula	Leq2=Leqff+10	log[A0/S*10^(-Dne/10])+Swi/S*10^(-Rwi/10)+	Sew/10*10^(-Rew/10)-	+Srr/S*10^(-Rrr/10)] +10log(S/A) +3				
			Octavo Band Contr							
	125	Octave Band Centre Frequency (Hz) 125 250 500 1000 2000								
	125	230	300	1000	2000	4000				
Sf	11	11	11	11	11	11				
Sr	31	31	31	31	31	31				
Swi	2.3	2.3	2.3	2.3	2.3	2.3				
Sew	8.7	8.7	8.7	8.7	8.7	8.7				
Srr	31	31	31	31	31	31				
S	42	42	42	42	42	42				
A0	10	10	10	10	10	10				
V	40	40	40	40	40	40				
T (BS8233)	0.50	0.50	0.50	0.50	0.50	0.50				
А	11.0	14.0	16.0	16.0	15.0	14.0				
A Daytime Leqff	61.8	59.6	54.1	55.3	54.1	53.6				
Night time Leqff	53.3	51.8	51.5	51.4	47.3	39.8				
	40.0	44.0	45.0	51.0	56.0	56.0				
Dne	21.0	28.0	37.0	48.0	48.0	54.0				
Rwi										
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
Rrr	32.0	38.0	44.0	49.0	53.0	53.0				
	Within The Above Roc lours (07:00-23:00)	m During Daytime	L _{Aeq 16 HOUR}	27	.0	dB(A)				
• •	l Within The Above Ro e Hours (23:00-07:00)		L _{Aeq} 8 hour	19	.8	dB(A)				

9.13 Ground Floor Lounge

Proj	oosed Window Con	-		4 / 6 - 16 / 4 with Titon Standard Vent / C25						
		açade corrected to	-	-						
Leqff		ntinuous sound pres			Inder considerati	on				
A0		corption area of 10m		nt of frequency						
Sf	The total façade area of the room in question									
Swi		The area of the windows in the room								
Sew		The area of the external wall of the room								
Srr		The area of the ceiling of the room (if applicable) The total area of the elements through which sound enters the room								
S		•		s the room						
Dne Rwi		ue of the trickle vent ion index of the winc								
Rew		ion index of the exte								
Rew										
A		ion index of the ceili								
~	The equivalent ab	sorption area of the		10 A=0. 103 V/ I						
Formula	Leq2=Leqff+10	log[A0/S*10^(-Dne/10)	, <i>,</i> , ,		+Srr/S*10^(-Rrr/10)] +10log(S/A) +3				
	Octave Band Centre Frequency (Hz)									
	125	250	500	1000	2000	4000				
Sf	16	16	16	16	16	16				
Sr	0	0	0	0	0	0				
Swi	9	9	9	9	9	9				
Sew	7	7	7	7	7	7				
Srr	0	0	0	0	0	0				
S	16	16	16	16	16	16				
A0	10	10	10	10	10	10				
v	63	63	63	63	63	63				
T (BS8233)	0.50	0.50	0.50	0.50	0.50	0.50				
A	11.0	14.0	16.0	16.0	15.0	14.0				
Daytime Leqff	55.8	53.6	48.1	49.3	48.1	47.6				
Night time Legff	48.3	46.8	46.5	46.4	42.3	34.8				
Dne	35.7	37.7	36.1	32.1	37.1	38.9				
	21.0	17.0	25.0	35.0	37.0	31.0				
Rwi	40.0	44.0	45.0	51.0	56.0	56.0				
Rew										
Rrr	28.0	34.0	40.0	45.0	49.0	49.0				
					0					
• •	Within The Above Roc	om During Daytime		20	9					
• •	Within The Above Roc lours (07:00-23:00)	om During Daytime	L _{Aeq 16 HOUR}	30	.9	dB(A)				

9.14 First Floor Master Bedroom

Proj	oosed Window Con	figuration		8 / 6 - 16 / 4 with	n Titon V75 / C7	5 vent				
	Fa	açade corrected to	daytime 55 dB & n	ight time 50 dB						
Leqff	The equivalent col	ntinuous sound pres	ssure level outside th	e room elements u	nder considerati	on				
A0	The reference abs	The reference absorption area of 10m2 and is independent of frequency								
Sf	The total façade a	The total façade area of the room in question								
Swi	The area of the wi	The area of the windows in the room								
Sew	The area of the ex	ternal wall of the ro	от							
Srr	The area of the ce	The area of the ceiling of the room (if applicable)								
S	The total area of the	he total area of the elements through which sound enters the room								
Dne	The insulation valu	he insulation value of the trickle ventilator (if applicable)								
Rwi	The sound reducti	on index of the wind	low							
Rew	The sound reducti	on index of the exte	rnal wall							
Rrr	The sound reducti	on index of the ceili	ng/roof (if applicable,)						
Α	The equivalent ab	sorption area of the	receiving room when	re A=0.163V/T						
Formula	Leq2=Leqff+10	log[A0/S*10^(-Dne/10)	+Swi/S*10^(-Rwi/10)+S	ew/10*10^(-Rew/10)+	-Srr/S*10^(-Rrr/10)] +10log(S/A) +3				
	Octave Band Centre Frequency (Hz)									
	125	250	500	1000	2000	4000				
Sf	10.0	10.0	10.0	10.0	10.0	10.0				
Sr	0.0	0.0	0.0	0.0	0.0	0.0				
Swi	6.0	6.0	6.0	6.0	6.0	6.0				
Sew	4.0	4.0	4.0	4.0	4.0	4.0				
Srr	0.0	0.0	0.0	0.0	0.0	0.0				
S	10.0	10.0	10.0	10.0	10.0	10.0				
A0	10.0	10.0	10.0	10.0	10.0	10.0				
V	40.0	40.0	40.0	40.0	40.0	40.0				
T (BS8233)	0.5	0.5	0.5	0.5	0.5	0.5				
A	11.0	14.0	16.0	16.0	15.0	14.0				
	55.8	53.6	48.1	49.3	48.1	47.6				
Daytime Leqff	48.3	46.8	46.5	46.4	42.3	34.8				
Night time Leqff	37.0	37.0	36.1	46.9	49.2	55.2				
Dne	22.0	21.0	28.0	38.0	49.2	47.0				
Rwi										
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
Rrr	28.0	34.0	40.0	45.0	49.0	49.0				
	Within The Above Roc Hours (07:00-23:00)	om During Daytime	L _{Aeq 16 HOUR}	25.	4	dB(A)				
Predicted dB(A) Leve	el Within The Above Ro Hours (23:00-07:00)		L _{Aeq 8 HOUR}	19.	9	dB(A)				

9.15 Top Floor Bedroom 2

Proposed Window Configuration				8/6-16/4 w	vith Titon V75 /	C75				
	Fa	açade corrected to	daytime 55 dB & n	ight time 50 dB						
Leqff	The equivalent col	ntinuous sound pres	ssure level outside th	e room elements u	nder considerati	on				
A0	The reference abs	orption area of 10m	2 and is independen	t of frequency						
Sf	The total façade a	rea of the room in q	uestion							
Swi	The area of the wi	indows in the room								
Sew	The area of the ex	ternal wall of the ro	om							
Srr	The area of the ce	The area of the ceiling of the room (if applicable)								
S	The total area of the elements through which sound enters the room									
Dne	The insulation valu	ue of the trickle ven	tilator (if applicable)							
Rwi	The sound reducti	on index of the wind	dow							
Rew	The sound reducti	on index of the exte	ernal wall							
Rrr	The sound reducti	on index of the ceili	ng/roof (if applicable,)						
A	The equivalent ab	sorption area of the	receiving room whe	re A=0.163V/T						
Formula	Leq2=Leqff+10	log[A0/S*10^(-Dne/10)	+Swi/S*10^(-Rwi/10)+S	Sew/10*10^(-Rew/10)+	-Srr/S*10^(-Rrr/10)] +10log(S/A) +3				
Octave Band Centre Frequency (Hz)										
	125	250	500	1000	2000	4000				
Sf	11	11	11	11	11	11				
Sr	31	31	31	31	31	31				
Swi	2.3	2.3	2.3	2.3	2.3	2.3				
Sew	8.7	8.7	8.7	8.7	8.7	8.7				
Srr	31	31	31	31	31	31				
S	42	42	42	42	42	42				
-	10	10	10	10	10	10				
A0				-						
V	40	40	40	40	40	40				
T (BS8233)	0.50	0.50	0.50	0.50	0.50	0.50				
Α	11.0	14.0	16.0	16.0	15.0	14.0				
Daytime Leqff	55.8	53.6	48.1	49.3	48.1	47.6				
Night time Leqff	48.3	46.8	46.5	46.4	42.3	34.8				
Dne	37.0	37.0	36.1	46.9	49.2	55.2				
Rwi	22.0	21.0	28.0	38.0	40.0	47.0				
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
Rrr	28.0	34.0	40.0	45.0	49.0	49.0				
	Within The Above Roc	om During Daytime	L _{Aeq 16 HOUR}	25.	.0	dB(A)				
Predicted dB(A) Leve	Hours (07:00-23:00) I Within The Above Rc Hours (23:00-07:00)		L _{Aeq 8 HOUR}	19.		dB(A)				

9.16 Mid Floor Master Bedroom

Proposed Window Configuration				4 / 6 - 16 / 4 with Titon standard vent / C25					
	Fa	açade corrected to	daytime 55 dB & n	ne 55 dB & night time 45 dB					
Leqff	The equivalent co	ntinuous sound pres	ssure level outside th	e room elements u	nder considerati	on			
A0	The reference abs	orption area of 10m	n2 and is independen	t of frequency					
Sf	The total façade a	rea of the room in q	uestion						
Swi	The area of the wi	ndows in the room							
Sew	The area of the ex	ternal wall of the ro	om						
Srr	The area of the ce	iling of the room (if	applicable)						
S	The total area of the elements through which sound enters the room								
Dne	The insulation value	ue of the trickle ven	tilator (if applicable)						
Rwi	The sound reducti	on index of the wind	dow						
Rew	The sound reducti	on index of the exte	ernal wall						
Rrr	The sound reducti	on index of the ceili	ng/roof (if applicable)					
Α	The equivalent ab	sorption area of the	receiving room when	re A=0.163V/T					
Formula					Que/(0*4.0*/ D/40)	1.10000(0/4)0			
Formula	Formula Leq2=Leqff+10log[A0/S*10^(-Dne/10)+Swi/S*10^(-Rwi/10)+Sew/10*10^(-Rew/10)+Srr/S*10^(-Rrr/10)] +10log(S/A) +3								
			Octave Band Centre	e Frequency (Hz)					
	125	250	500	1000	2000	4000			
Sf	10.0	10.0	10.0	10.0	10.0	10.0			
Sr	0.0	0.0	0.0	0.0	0.0	0.0			
Swi	6.0	6.0	6.0	6.0	6.0	6.0			
Sew	4.0	4.0	4.0	4.0	4.0	4.0			
Srr	0.0	0.0	0.0	0.0	0.0	0.0			
S	10.0	10.0	10.0	10.0	10.0	10.0			
A0	10.0	10.0	10.0	10.0	10.0	10.0			
	40.0	40.0	40.0	40.0	40.0	40.0			
V	0.5	0.5	0.5	0.5	0.5	0.5			
T (BS8233)	11.0	14.0	16.0	16.0	15.0	14.0			
Α			48.1						
Daytime Leqff	55.8	53.6		49.3	48.1	47.6			
Night time Leqff	43.3	41.8	41.5	41.4	37.3	29.8			
Dne	35.9	37.6	36.3	31.8	36.8	40.4			
Rwi	21.0	17.0	25.0	35.0	37.0	31.0			
Rew	40.0	44.0	45.0	51.0	56.0	56.0			
Rrr	28.0	34.0	40.0	45.0	49.0	49.0			
	Within The Above Roc lours (07:00-23:00)	om During Daytime	$L_{Aeq 16 HOUR}$	29.	.3	dB(A)			
• •	l Within The Above Ro Hours (23:00-07:00)		L _{Aeq 8 HOUR}	18.	.8	dB(A)			

9.17 Top Floor Bedroom 2

Proj	oosed Window Con	figuration		4 / 6 - 16 / 4 with T	iton standard v	ent / C25				
	Fa	açade corrected to	daytime 55 dB & n	ight time 45 dB						
Leqff	The equivalent co	ntinuous sound pres	ssure level outside th	e room elements u	nder considerati	on				
A0	The reference abs	corption area of 10m	12 and is independen	t of frequency						
Sf	The total façade a	rea of the room in q	uestion							
Swi	The area of the wi	indows in the room								
Sew	The area of the ex	ternal wall of the ro	om							
Srr	The area of the ce	The area of the ceiling of the room (if applicable)								
S	The total area of the	The total area of the elements through which sound enters the room								
Dne	The insulation value	ue of the trickle ven	tilator (if applicable)							
Rwi	The sound reduct	ion index of the wind	dow							
Rew	The sound reducti	ion index of the exte	ernal wall							
Rrr	The sound reduct	ion index of the ceili	ng/roof (if applicable,)						
Α	The equivalent ab	sorption area of the	receiving room when	re A=0.163V/T						
Formula	Leq2=Leqff+10	log[A0/S*10^(-Dne/10))+Swi/S*10^(-Rwi/10)+S	ew/10*10^(-Rew/10)+	-Srr/S*10^(-Rrr/10)] +10log(S/A) +3				
	Octave Band Centre Frequency (Hz)									
	125	250	500	1000	2000	4000				
Sf	11.0	11.0	11.0	11.0	11.0	11.0				
Sr	31.0	31.0	31.0	31.0	31.0	31.0				
Swi	2.3	2.3	2.3	2.3	2.3	2.3				
Sew	8.7	8.7	8.7	8.7	8.7	8.7				
Srr	31.0	31.0	31.0	31.0	31.0	31.0				
S	42.0	42.0	42.0	42.0	42.0	42.0				
A0	10.0	10.0	10.0	10.0	10.0	10.0				
V	40.0	40.0	40.0	40.0	40.0	40.0				
T (BS8233)	0.5	0.5	0.5	0.5	0.5	0.5				
. ,	11.0	14.0	16.0	16.0	15.0	14.0				
A Doutime Logff	55.8	53.6	48.1	49.3	48.1	47.6				
Daytime Leqff	43.3	41.8	41.5	41.4	37.3	29.8				
Night time Leqff	35.9	37.6	36.3	31.8	36.8	40.4				
Dne										
Rwi	21.0	17.0	25.0	35.0	37.0	31.0				
Rew	40.0	44.0	45.0	51.0	56.0	56.0				
Rrr	28.0	34.0	40.0	45.0	49.0	49.0				
	Within The Above Roc Hours (07:00-23:00)	om During Daytime	L _{Aeq 16 HOUR}	27.	.6	dB(A)				
Predicted dB(A) Leve	l Within The Above Ro Hours (23:00-07:00)		L _{Aeq 8 HOUR}	17.	.2	dB(A)				



9.18 Ventilation

Octave Band Frequency	125	250	500	1000	2000	4000	D _{n,e,w}
Titon V75/C75	37.0	37.0	36.1	46.9	49.2	55.2	44
Standard Vent /C25	35.7	37.7	36.1	32.1	37.1	38.9	35

9.19 Glazing (R_{wi})

Octave Band Frequency	125	250	500	1000	2000	4000	R _w
6mm glass / 16mm Argon air gap / 6.8mm Pilkington optiphon glass	21.0	28.0	37.0	48.0	48.0	54.0	40(-2,-6)
8mm glass / 6 - 16mm air gap / 4mm glass	22.0	21.0	28.0	38.0	40.0	47.0	33(-1,-4)
6mm glass / 6 - 16mm air gap / 4mm glass	21.0	20.0	26.0	38.0	37.0	39.0	32(-2,-4)
4mm glass / 6 - 16mm air gap / 4mm glass	21.0	17.0	25.0	35.0	37.0	31.0	29(-1,-4)

9.20 Walls (R_{ew})

Octave Band Frequency	125	250	500	1000	2000	4000	R _w
Brick and Concrete Block	40.0	44.0	45.0	51.0	56.0	56.0	50

9.21 Roof (R_{rr})

Octave Band Frequency	125	250	500	1000	2000	4000	R _w
Minimum Value	28.0	34.0	40.0	45.0	49.0	49.0	43
Upgraded roof with 2 x 15mm soundbloc	32.0	38.0	44.0	49.0	53.0	53.0	46

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



9.22 Glazing & Ventilation Assessment

The development should be designed as shown in the table below or similarly approved to all rooms to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014. It will also be necessary to upgrade the ceiling in the loft rooms to 2×15 mm soundbloc with a night time façade level > 51 dB.

Night Time Façade level	Ground Floor Lounge	Mid Floor Master Bedroom	Top Floor Bedroom 2
51 - 55 dB	6mm – 6 – 16 / 4mm	6mm / 16mm Argon / 6.8	6mm / 16mm Argon / 6.8
	With MVHR	Pilkington Optiphon with MVHR	Pilkington Optiphon with MVHR
46 - 50 dB	4mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon V75/C75 Vent	With Titon V75/C75 Vent
<45 dB	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon standard vent / C25	With Titon standard vent / C25



9.23 Night Noise Guidelines Europe 2009

The Night Noise Guidelines 2009 make direct reference to the World Health Organisations Guidelines for Community Noise 1999 with recommended guideline criteria of L_{Aeq} 30 dB indoors for continuous noise. The document goes on to explain that sleep disturbance correlates best with L_{Amax} and effects have been observed at 45 dB or less. This is particularly true if the background noise level is low. Noise events exceeding 45 dB(A) should therefore be limited.

Pro PG: Planning and Noise Appendix A 'Dealing with Noise Events' A.17 states that:-

Various studies have linked the L_{Amax} from individual noise events to behavioural awakenings. For example one study found that the "Probability of sleep stage changes to wake/S1 from railway noise increased significantly from 6.5% at 35 dB(A) to 20.5% at 80 dB(A) L_{Amax/F} whilst another study concluded that "noise disturbance of sleep may be expected to become significant once the outdoor L_{Aeq} exceeds 55 dB provided peak noise levels do not exceed 75 to 80 dB. Higher L_{Aeq} values up to 60 dB may be allowed providing the peak levels do not exceed 85 dB, and the number of such events is less than about 20 per night". Based on these studies it can be concluded that at night (2300 - 0700 hrs) a significant effect on sleep disturbance e.g. behavioural awakening, is likely to occur where the maximum sound level at the façade of a building with partially open windows is above:

85 dB $L_{Amax,F}$ (where the number of events exceeding this value is \leq 20);

or

80 dB $L_{Amax,F}$ (where the number of events exceeding this value is > 20).

Pro PG: Planning and Noise Appendix A 'Dealing with Noise Events' A.18 goes on to explain that:-

A.18 The main body of sleep research is consistent with a careful interpretation of the viewpoint set out in the World Health Organisation Guidelines which for the ordinary population is that:

- ✓ Impacts on sleep can be detected from relatively low level maximum noise events, however the degree of resulting harm may not be significant.
- ✓ 'Effects' on sleep (such as EEG awakenings and sleep stage changes) occur spontaneously in the general population many times per night regardless of any impacts due to noise.
- ✓ The smaller the number of noise events, the louder the maximum noise level that can be tolerated without adverse effects upon sleep; subject to an upper limit.
- ✓ At relatively low levels e.g. around 45 dB L_{Amax,F} when sufficient number of such events take place during the night the adverse effects of individual noise events are likely to be limited to sleep disturbance in the form of changes in sleep state or perhaps some EEG awakenings.
- ✓ It normally requires noise levels higher than 45 dB L_{Amax,F} before significant adverse effects such as behavioural awakenings, difficulty getting to sleep, premature awakening or difficulty getting back to sleep generally occur and the latest field research on and aircraft noise suggest that it requires internal L_{Amax} noise levels of around 65 dB before noise induced awakenings become distinguishable from spontaneous awakenings).



Therefore the following tabulated results from the worst night have been calculated and demonstrate compliance with the requirements of Pro PG.

Date / Time	LAeq	LAmax	L _{Amax,F} 80 - 85 dB	L _{Amax,F} > 85 dB
23:00 - 23:15	57.8	83.1	83.1	
23:15 - 23:30	48.8	63.0		
23:30 - 23:45	54.5	79.5		
23:45 - 00:00	49.5	70.7		
00:00 - 00:15	55.1	82.9	82.9	
00:15 - 00:30	53.6	79.3		
00:30 - 00:45	61.0	90.3	90.3	90.3
00:45 - 01:00	43.9	57.9		
01:00 - 01:15	56.3	80.8	80.8	
01:15 - 01:30	44.2	57.0		
01:30 - 01:45	42.6	59.2		
01:45 - 02:00	58.7	83.2	83.2	
02:00 - 02:15	43.3	57.2		
02:15 - 02:30	59.2	82.2	82.2	
02:30 - 02:45	42.1	58.6		
02:45 - 03:00	61.2	85.6	85.6	85.6
03:00 - 03:15	41.8	56.1		
03:15 - 03:30	61.1	82.0	82.0	
03:30 - 03:45	41.4	55.7		
03:45 - 04:00	41.4	60.0		
04:00 - 04:15	39.6	53.3		
04:15 - 04:30	39.7	55.2		
04:30 - 04:45	40.0	52.5		
04:45 - 05:00	42.2	61.0		
05:00 - 05:15	55.1	83.4	83.4	
05:15 - 05:30	54.7	75.6		
05:30 - 05:45	50.5	66.6		
05:45 - 06:00	51.2	68.9		
06:00 - 06:15	55.4	82.3	82.3	
06:15 - 06:30	53.6	72.7		
06:30 - 06:45	57.6	78.6		
06:45 - 07:00	56.1	73.8		
	Total Event Count		10	2
Pro PG An	nex Event Quantity Criter	ia	>20	<20
Pro F	PG Criteria Assessment	Achieved	Achieved	



With the proposed glazing and ventilation strategies implemented on this site, the following calculated internal levels have been evaluated accordingly:-

Item		Night Time (23:00-07:00)	Description
1	Recorded External Noise Level	57.5	Recorded Noise Level at the Monitoring Position
2	Calculated Highest Façade Level	55	Highest recorded façade level of the proposed development closest to the above associated monitoring position.
3	Façade Correction	-2.5	Difference between Recorded and Calculated (Item 1 and 2)
4	Calculated Façade Attenuation	-35.2	Calculated façade attenuation taken from the highest recorded LAeq 8 HOUR dB night time noise level, minus the highest calculated internal noise level taken from the BS 8233 calculations.
5	LAmax 45 dB Criteria	45	LAmax 45 dB Criteria taken from WHO Guidelines. BS 8233 does not reference LAmax dB noise level criteria.
6	Calculated Façade Level Outside	80.2	Addition of Items 4 and 5 to give a resultant target level for the 11th Percentile
7	11 th Percentile Recorded LAmax	79.5	11th Percentile Recorded LAmax
8	LAmax Criteria Achieved	YES	If Item 7 is less than 6, then the site is likely to be compliant. If not, further calculations are required

The above table demonstrates that the upgraded glazing and ventilation will result in the internal LAmax 45 dB criteria being achieved.

Based on the BS 8233: 2014 calculations, the following table demonstrates the effectiveness of this upgrade and demonstrates compliance with the LAmax 45 dB criteria.

NIGHT TIME NOISE	LEVELS 23:00 - 07:00 15	MINUTE SAMPLES	– Position 3 (Façade Corre	cted to 50 dB)
Date / Time	LAeq	LAmax	L _{Amax,F} 80 - 85 dB	L _{Amax,F} > 85 dB
23:00 - 23:15	52.8	78.1		
23:15 - 23:30	43.8	58.0		
23:30 - 23:45	49.5	74.5		
23:45 - 00:00	44.5	65.7		
00:00 - 00:15	50.1	77.9		
00:15 - 00:30	48.6	74.3		
00:30 - 00:45	56.0	85.3	85.3	85.3
00:45 - 01:00	38.9	52.9		
01:00 - 01:15	51.3	75.8		
01:15 - 01:30	39.2	52.0		
01:30 - 01:45	37.6	54.2		
01:45 - 02:00	53.7	78.2		
02:00 - 02:15	38.3	52.2		
02:15 - 02:30	54.2	77.2		
02:30 - 02:45	37.1	53.6		
02:45 - 03:00	56.2	80.6	80.6	
03:00 - 03:15	36.8	51.1		
03:15 - 03:30	56.1	77.0		
03:30 - 03:45	36.4	50.7		
03:45 - 04:00	36.4	55.0		
04:00 - 04:15	34.6	48.3		
04:15 - 04:30	34.7	50.2		
04:30 - 04:45	35.0	47.5		
04:45 - 05:00	37.2	56.0		
05:00 - 05:15	50.1	78.4		
05:15 - 05:30	49.7	70.6		
05:30 - 05:45	45.5	61.6		
05:45 - 06:00	46.2	63.9		
06:00 - 06:15	50.4	77.3		
06:15 - 06:30	48.6	67.7		
06:30 - 06:45	52.6	73.6		
06:45 - 07:00	51.1	68.8		
	Total Event Count		2	1
Pro PG Ar	nnex Event Quantity Crite	eria	>20	<20
Pro	PG Criteria Assessment		Achieved	Achieved



With the proposed glazing and ventilation strategies implemented on this site, the following calculated internal levels have been evaluated accordingly:-

Item		Night Time (23:00-07:00)	Description
1	Recorded External Noise Level	57.5	Recorded Noise Level at the Monitoring Position
2	Calculated Highest Façade Level	50	Highest recorded façade level of the proposed development closest to the above associated monitoring position.
3	Façade Correction	-7.5	Difference between Recorded and Calculated (Item 1 and 2)
4	Calculated Façade Attenuation	-30.1	Calculated façade attenuation taken from the highest recorded LAeq 8 HOUR dB night time noise level, minus the highest calculated internal noise level taken from the BS 8233 calculations.
5	LAmax 45 dB Criteria	45	LAmax 45 dB Criteria taken from WHO Guidelines. BS 8233 does not reference LAmax dB noise level criteria.
6	Calculated Façade Level Outside	75.1	Addition of Items 4 and 5 to give a resultant target level for the 11th Percentile
7	11 th Percentile Recorded LAmax	74.5	11th Percentile Recorded LAmax
8	LAmax Criteria Achieved	YES	If Item 7 is less than 6, then the site is likely to be compliant. If not, further calculations are required

The above table demonstrates that the upgraded glazing and ventilation will result in the internal LAmax 45 dB criteria being achieved.

Based on the BS 8233: 2014 calculations, the following table demonstrates the effectiveness of this upgrade and demonstrates compliance with the LAmax 45 dB criteria.

NIGHT TIME NOISE	LEVELS 23:00 - 07:00 15	5 MINUTE SAMPLES –	Position 3 (Façade Corre	cted to 45 dB)
Date / Time	LAeq	LAmax	L _{Amax,F} 80 - 85 dB	L _{Amax,F} > 85 dB
23:00 - 23:15	47.8	73.1		
23:15 - 23:30	38.8	53.0		
23:30 - 23:45	44.5	69.5		
23:45 - 00:00	39.5	60.7		
00:00 - 00:15	45.1	72.9		
00:15 - 00:30	43.6	69.3		
00:30 - 00:45	51.0	80.3	80.3	
00:45 - 01:00	33.9	47.9		
01:00 - 01:15	46.3	70.8		
01:15 - 01:30	34.2	47.0		
01:30 - 01:45	32.6	49.2		
01:45 - 02:00	48.7	73.2		
02:00 - 02:15	33.3	47.2		
02:15 - 02:30	49.2	72.2		
02:30 - 02:45	32.1	48.6		
02:45 - 03:00	51.2	75.6		
03:00 - 03:15	31.8	46.1		
03:15 - 03:30	51.1	72.0		
03:30 - 03:45	31.4	45.7		
03:45 - 04:00	31.4	50.0		
04:00 - 04:15	29.6	43.3		
04:15 - 04:30	29.7	45.2		
04:30 - 04:45	30.0	42.5		
04:45 - 05:00	32.2	51.0		
05:00 - 05:15	45.1	73.4		
05:15 - 05:30	44.7	65.6		
05:30 - 05:45	40.5	56.6		
05:45 - 06:00	41.2	58.9		
06:00 - 06:15	45.4	72.3		
06:15 - 06:30	43.6	62.7		
06:30 - 06:45	47.6	68.6		
06:45 - 07:00	46.1	63.8		
	Total Event Count		1	0
Pro PG Ar	nnex Event Quantity Crit	eria	>20	<20
Pro F	PG Criteria Assessment		Achieved	Achieved



With the proposed glazing and ventilation strategies implemented on this site, the following calculated internal levels have been evaluated accordingly:-

Item		Night Time (23:00-07:00)	Description
1	Recorded External Noise Level	57.5	Recorded Noise Level at the Monitoring Position
2	Calculated Highest Façade Level	45	Highest recorded façade level of the proposed development closest to the above associated monitoring position.
3	Façade Correction	-12.5	Difference between Recorded and Calculated (Item 1 and 2)
4	Calculated Façade Attenuation	-26.2	Calculated façade attenuation taken from the highest recorded LAeq 8 HOUR dB night time noise level, minus the highest calculated internal noise level taken from the BS 8233 calculations.
5	LAmax 45 dB Criteria	45	LAmax 45 dB Criteria taken from WHO Guidelines. BS 8233 does not reference LAmax dB noise level criteria.
6	Calculated Façade Level Outside	71.2	Addition of Items 4 and 5 to give a resultant target level for the 11th Percentile
7	11 th Percentile Recorded LAmax	69.5	11th Percentile Recorded LAmax
8	LAmax Criteria Achieved	YES	If Item 7 is less than 6, then the site is likely to be compliant. If not, further calculations are required

The above table demonstrates that the glazing and ventilation will result in the internal LAmax 45 dB criteria being achieved.

Based on the BS 8233: 2014 calculations, the following table demonstrates the effectiveness and demonstrates compliance with the LAmax 45 dB criteria.



10 ELEMENT 3 – EXTERNAL AMENITY AREA NOISE ASSESSMENT

10.1 Outdoor Living Areas

The World Health Organisation 'Guidelines for Community Noise gives guidance as to desirable noise levels that should be achieved within outdoor living areas such as gardens, patios and verandas etc.

Table 1: Guideline values for community noise in specific environments, details the desirable target noise levels within various areas.

Outdoor I	Living Area
Serious Annoyance, daytime and evening	L _{Aeq 16 HOUR} 55 dB
Moderate Annoyance, daytime and evening	L _{Aeq 16 HOUR} 50 dB

In order to evaluate the external noise levels within the proposed development, and to correctly and accurately select the precise required minimum screen heights, the 3D modelling software CADNA A is to be used. Initially, the site plan is to be overlaid onto Google Earth and then imported directly into CADNA A using the geometric co-ordinates.

From this, the monitoring positions and noise sources such as roads are added. The output noise levels from the roads are then increased until the monitored noise levels are achieved at the monitoring position. This model is then saved and used as a working 3D acoustic model of the site.

The proposed buildings are then constructed on a 3D bases and receptors placed within the garden areas.

The calculation software is then run to evaluate the garden levels within sample plots across the development.

The following CADNA A screen shots demonstrate the existing sites working 3D model. The levels at the measurement position correlate with the measured daytime average levels detailed on pages 17-18 of this report.





The development has external living areas on the development and therefore this criteria / guideline would be appropriately considered within the proposed rear residential garden areas.



The guideline has been considered acceptable criteria for this assessment given the sites geographical location and proximity to a major trunk road. The layout has been re-designed in order to allow for acoustics and minimise the noise levels within the outdoor living spaces. The above calculation demonstrates the external living spaces surrounding the houses are likely to see noise levels below the upper guideline of 55 dB.



11 VIBRATION ASSESSMENT

11.1 ASSESSMENT CRITERIA

Ground borne vibration needs to be assessed with regard to the likelihood of disturbance to humans and damage to building structure. With regard to human disturbance, vibration criteria are specified in terms of Vibration Dose Values (VDV) in accordance with BS 6472-1. The following table shows the VDV with various degrees of adverse comment, which may be expected in residential buildings.

For residential buildings	Low probability of adverse comment	Adverse comment possible	Adverse comment probable	
16 hr day 07:00 to 23:00	0.2 to 0.4	0.4 to 0.8	0.8 to 1.6	
8 hr night 23:00 to 07:00	0.1 to 0.2	0.2 to 0.4	0.4 to 0.8	
Ta	ble 1 Vibration Dose	Values (given in m/s1.75)		

The vibration dose reflects the accumulated acceleration vibration value over a given time period, integrated by time on a root mean quad basis, hence the unit m/s1.75.

Human beings have different sensitivity to vibration in different directions, and it is relevant to consider vibration in all three axes together as a resultant value.

In terms of the likelihood of damage to buildings, vibration is measured in peak particle velocity (ppv) mm/s and assessed in accordance with BS 73852. In this particular case, the main sources of vibration are trains and these are considered to cause transient vibration. The BS7385 standard states that for transient vibration, guide values at which cosmetic damage could occur to residential buildings are 15 mm/s at 4 Hz, rising to 20 mm/s at 15 Hz and rising further to 50 mm/s at 40 Hz and above for new buildings. These limits can be reduced by 50% for older buildings.

¹ BS 6472:, Evaluation of human exposure to vibration in buildings (1 Hz to 80 Hz)

¹ BS 7385:, Evaluation and measurement for vibration in buildings

11.2 RESULTS & ASSESSMENT OF VIBRATION MEASUREMENTS

The vibration monitor was set to record ppv and vdv and left unattended for the duration of the survey. Full measurement results are given in the table below.

	25 th October 2018 – DAYTIME										
Ev 011		V	ibration D	ose Value			Peak Particle Velocity				
14 Hour	х	Y	Z	х	Y	Z		Max	Time	Date	
	0.027	0.027	0.052					20.0mm/s	09:46:11	25/10/2018	
1 Hour	X	Y	Z	х	Y	Z		Max	Time	Date	
Hour 1	0.021	0.021	0.108	0.015	0.014	0.075		*20.0mm/s	09:46:11	25/10/2018	
Hour 2	0.02	0.017	0.038	0.021	0.019	0.076		1.53mm/s	10:36:21	25/10/2018	
Hour 3	0.02	0.017	0.031	0.024	0.022	0.076		1.30mm/s	11:29:21	25/10/2018	
Hour 4	0.02	0.018	0.045	0.027	0.024	0.079		1.70mm/s	12:04:21	25/10/2018	
Hour 5	0.019	0.017	0.037	0.028	0.026	0.08		1.93mm/s	13:25:51	25/10/2018	
Hour 6	0.019	0.017	0.034	0.03	0.027	0.08		1.73mm/s	14:48:11	25/10/2018	
Hour 7	0.019	0.017	0.03	0.031	0.028	0.081		1.85mm/s	15:23:31	25/10/2018	
Hour 8	0.019	0.018	0.035	0.032	0.029	0.081		1.78mm/s	16:23:51	25/10/2018	
Hour 9	0.019	0.018	0.038	0.033	0.03	0.082		1.78mm/s	17:24:41	25/10/2018	
Hour 10	0.019	0.018	0.032	0.034	0.031	0.083		1.83mm/s	18:23:21	25/10/2018	
Hour 11	0.019	0.018	0.043	0.035	0.032	0.084		1.45mm/s	19:08:31	25/10/2018	
Hour 12	0.019	0.018	0.042	0.036	0.033	0.086		1.83mm/s	20:23:41	25/10/2018	
Hour 13	0.019	0.018	0.033	0.037	0.033	0.086		1.88mm/s	21:24:51	25/10/2018	
Hour 14	0.019	0.017	0.024	0.037	0.034	0.086		1.00mm/s	22:25:31	25/10/2018	

* Denotes Set Up

	25 th – 26 th October 2018 – NIGHT TIME										
Ev 012		V	ibration D	ose Value		Peak Particle Velocity					
8 Hour	X	Y	Z	X	Y	Z		Max	Time	Date	
	0.033	0.029	0.046					1.53mm/s	04:33:30	26/10/2018	
1 Hour	Х	Y	Z	Х	Y	Z		Max	Time	Date	
Hour 1	0.019	0.017	0.021	0.019	0.017	0.021		1.00mm/s	23:04:50	25/10/2018	
Hour 2	0.019	0.017	0.02	0.023	0.02	0.025		.350mm/s	00:58:50	26/10/2018	
Hour 3	0.019	0.017	0.02	0.026	0.023	0.027		.325mm/s	01:03:10	26/10/2018	
Hour 4	0.019	0.017	0.02	0.027	0.024	0.029		.350mm/s	02:04:50	26/10/2018	
Hour 5	0.019	0.017	0.033	0.029	0.026	0.037		1.23mm/s	03:09:40	26/10/2018	
Hour 6	0.019	0.018	0.029	0.03	0.027	0.04		1.53mm/s	04:33:30	26/10/2018	
Hour 7	0.019	0.018	0.027	0.032	0.028	0.042		1.13mm/s	05:07:00	26/10/2018	
Hour 8	0.019	0.018	0.034	0.033	0.029	0.046		1.18mm/s	06:47:20	26/10/2018	

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26 th October 2018 – DAYTIME										
Ev 013		V	ibration D	ose Value				Peak Particle Velocity		
16 Hour	х	Y	Z	х	Y	Z		Max	Time	Date
	0.038	0.037	0.08					2.53mm/s	22:27:00	26/10/2018
1 Hour	Х	Y	Z	х	Y	Z		Max	Time	Date
Hour 1	0.019	0.018	0.038	0.019	0.018	0.038		1.65mm/s	07:24:50	26/10/2018
Hour 2	0.019	0.018	0.035	0.022	0.021	0.044		1.50mm/s	08:23:50	26/10/2018
Hour 3	0.019	0.018	0.035	0.025	0.023	0.048		1.65mm/s	09:24:00	26/10/2018
Hour 4	0.019	0.018	0.038	0.027	0.025	0.052		1.65mm/s	10:27:00	26/10/2018
Hour 5	0.019	0.018	0.037	0.028	0.027	0.055		2.03mm/s	11:27:20	26/10/2018
Hour 6	0.019	0.018	0.042	0.03	0.028	0.059		1.88mm/s	12:25:10	26/10/2018
Hour 7	0.019	0.017	0.026	0.031	0.029	0.06		1.05mm/s	13:34:00	26/10/2018
Hour 8	0.019	0.018	0.041	0.032	0.03	0.063		2.10mm/s	14:27:10	26/10/2018
Hour 9	0.019	0.021	0.05	0.033	0.032	0.069		1.78mm/s	15:30:00	26/10/2018
Hour 10	0.019	0.018	0.041	0.034	0.033	0.071		1.88mm/s	16:32:30	26/10/2018
Hour 11	0.019	0.018	0.039	0.035	0.033	0.072		2.20mm/s	17:43:40	26/10/2018
Hour 12	0.019	0.018	0.03	0.035	0.034	0.073		2.10mm/s	18:34:00	26/10/2018
Hour 13	0.019	0.019	0.044	0.036	0.035	0.075		1.88mm/s	19:06:50	26/10/2018
Hour 14	0.019	0.018	0.036	0.037	0.036	0.076		1.55mm/s	20:23:50	26/10/2018
Hour 15	0.019	0.018	0.033	0.038	0.036	0.077		1.20mm/s	21:00:10	26/10/2018
Hour 16	0.019	0.02	0.049	0.038	0.037	0.08		2.53mm/s	22:27:00	26/10/2018

26 th – 27 th October 2018 – NIGHT TIME										
Ev 014		V	ibration D	ose Value			Peak Particle Velocity			
8 Hour	X	Y	Z	X	Y	Z		Max	Time	Date
	0.034	0.035	0.088					3.30mm/s	23:53:40	26/10/2018
1 Hour	X	Y	Z	х	Y	Z		Max	Time	Date
Hour 1	0.02	0.021	0.056	0.02	0.021	0.056		3.30mm/s	23:53:40	26/10/2018
Hour 2	0.02	0.019	0.042	0.024	0.024	0.06		2.28mm/s	00:21:00	27/10/2018
Hour 3	0.021	0.021	0.064	0.027	0.027	0.074		2.85mm/s	01:36:20	27/10/2018
Hour 4	0.021	0.021	0.059	0.029	0.029	0.08		2.15mm/s	02:41:10	27/10/2018
Hour 5	0.02	0.021	0.049	0.03	0.031	0.083		3.13mm/s	03:18:00	27/10/2018
Hour 6	0.019	0.02	0.034	0.032	0.032	0.083		1.45mm/s	04:41:30	27/10/2018
Hour 7	0.019	0.02	0.035	0.033	0.034	0.084		1.50mm/s	05:40:50	27/10/2018
Hour 8	0.021	0.022	0.056	0.034	0.035	0.088		2.20mm/s	06:58:30	27/10/2018

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27 th October 2018 – DAYTIME									
Ev 015	Vibration Dose Value						Peak Particle Velocity		
16 Hour	Х	Y	Z	х	Y	Z	Max	Time	Date
	0.039	0.044	0.109				2.88mm/s	16:46:20	27/10/2018
1 Hour	Х	Y	Z	Х	Y	Z	Max	Time	Date
Hour 1	0.02	0.022	0.052	0.02	0.022	0.052	2.08mm/s	07:29:50	27/10/2018
Hour 2	0.02	0.024	0.056	0.024	0.027	0.064	1.85mm/s	08:53:30	27/10/2018
Hour 3	0.019	0.022	0.053	0.026	0.03	0.071	1.90mm/s	09:03:00	27/10/2018
Hour 4	0.019	0.022	0.051	0.028	0.032	0.075	1.65mm/s	10:20:20	27/10/2018
Hour 5	0.019	0.022	0.057	0.029	0.034	0.081	2.05mm/s	11:51:50	27/10/2018
Hour 6	0.019	0.022	0.055	0.031	0.035	0.085	1.93mm/s	12:54:40	27/10/2018
Hour 7	0.02	0.021	0.051	0.032	0.037	0.088	2.08mm/s	13:09:20	27/10/2018
Hour 8	0.019	0.022	0.052	0.033	0.038	0.09	1.65mm/s	14:21:30	27/10/2018
Hour 9	0.019	0.022	0.054	0.034	0.039	0.093	1.55mm/s	15:21:10	27/10/2018
Hour 10	0.019	0.022	0.067	0.035	0.04	0.099	2.88mm/s	16:46:20	27/10/2018
Hour 11	0.019	0.021	0.05	0.036	0.041	0.101	1.80mm/s	17:49:50	27/10/2018
Hour 12	0.019	0.023	0.054	0.036	0.042	0.103	1.80mm/s	18:21:10	27/10/2018
Hour 13	0.019	0.02	0.048	0.037	0.042	0.104	1.78mm/s	19:21:00	27/10/2018
Hour 14	0.019	0.022	0.052	0.038	0.043	0.105	1.78mm/s	20:26:00	27/10/2018
Hour 15	0.019	0.02	0.052	0.038	0.044	0.107	1.63mm/s	21:20:10	27/10/2018
Hour 16	0.019	0.022	0.053	0.039	0.044	0.109	1.98mm/s	22:43:20	27/10/2018

	27 th – 28 th October 2018 – NIGHT TIME								
Ev 016	Vibration Dose Value						Peak Particle Velocity		
8 Hour	Х	Y	Z	Х	Y	Z	Max	Time	Date
	0.032	0.032	0.052				1.78mm/s	06:56:00	28/10/2018
1 Hour	х	Y	Z	х	Y	Z	Max	Time	Date
Hour 1	0.019	0.02	0.042	0.019	0.02	0.042	1.68mm/s	23:21:50	27/10/2018
Hour 2	0.019	0.019	0.023	0.022	0.023	0.043	.350mm/s	00:19:10	28/10/2018
Hour 3	0.019	0.018	0.023	0.025	0.025	0.044	.350mm/s	01:07:20	28/10/2018
Hour 4	0.018	0.018	0.023	0.026	0.027	0.045	.350mm/s	02:02:40	28/10/2018
Hour 5	0.018	0.018	0.023	0.028	0.028	0.046	.400mm/s	03:28:50	28/10/2018
Hour 6	0.018	0.018	0.023	0.029	0.03	0.046	.375mm/s	04:14:30	28/10/2018
Hour 7	0.018	0.018	0.023	0.03	0.031	0.047	.350mm/s	05:00:20	28/10/2018
Hour 8	0.019	0.019	0.039	0.032	0.032	0.052	1.78mm/s	06:56:00	28/10/2018

28 th October 2018 – DAYTIME									
Ev 017	Vibration Dose Value						Peak Particle Veloc	ity	
16 Hour	Х	Y	Z	х	Y	Z	Max	Time	Date
	0.037	0.039	0.084				3.30mm/s	22:22:20	28/10/2018
1 Hour	х	Y	Z	х	Y	Z	Max	Time	Date
Hour 1	0.018	0.019	0.036	0.018	0.019	0.036	2.00mm/s	07:04:50	28/10/2018
Hour 2	0.018	0.019	0.031	0.022	0.022	0.041	2.03mm/s	08:39:20	28/10/2018
Hour 3	0.018	0.019	0.051	0.024	0.025	0.055	1.98mm/s	09:50:10	28/10/2018
Hour 4	0.018	0.019	0.038	0.026	0.027	0.058	1.25mm/s	10:20:30	28/10/2018
Hour 5	0.018	0.019	0.042	0.028	0.029	0.062	1.98mm/s	11:06:50	28/10/2018
Hour 6	0.018	0.019	0.043	0.029	0.03	0.066	1.63mm/s	12:06:40	28/10/2018
Hour 7	0.018	0.019	0.04	0.03	0.031	0.068	1.73mm/s	13:07:00	28/10/2018
Hour 8	0.018	0.019	0.043	0.031	0.032	0.071	1.85mm/s	14:23:40	28/10/2018
Hour 9	0.018	0.019	0.044	0.032	0.033	0.073	1.38mm/s	15:06:10	28/10/2018
Hour 10	0.018	0.019	0.045	0.033	0.034	0.076	1.55mm/s	16:06:10	28/10/2018
Hour 11	0.018	0.019	0.041	0.034	0.035	0.077	1.70mm/s	17:07:10	28/10/2018
Hour 12	0.018	0.019	0.042	0.034	0.036	0.079	1.55mm/s	18:08:40	28/10/2018
Hour 13	0.019	0.018	0.037	0.035	0.037	0.08	1.60mm/s	19:15:50	28/10/2018
Hour 14	0.019	0.019	0.041	0.036	0.037	0.081	1.73mm/s	20:47:20	28/10/2018
Hour 15	0.018	0.019	0.041	0.037	0.038	0.083	1.70mm/s	21:08:20	28/10/2018
Hour 16	0.019	0.021	0.04	0.037	0.039	0.084	3.30mm/s	22:22:20	28/10/2018

28 th – 29 th October 2018 – NIGHT TIME										
Ev 018	Vibration Dose Value						Peak Particle Velocity			
8 Hour	Х	Y	Z	Х	Y	Z		Max	Time	Date
	0.031	0.032	0.055					2.05mm/s	00:36:30	29/10/2018
1 Hour	Х	Y	Z	х	Y	Z		Max	Time	Date
Hour 1	0.018	0.019	0.042	0.018	0.019	0.042		1.53mm/s	23:37:00	28/10/2018
Hour 2	0.018	0.019	0.036	0.022	0.023	0.047		2.05mm/s	00:36:30	29/10/2018
Hour 3	0.018	0.018	0.023	0.024	0.025	0.048		.325mm/s	01:37:30	29/10/2018
Hour 4	0.018	0.019	0.023	0.026	0.027	0.048		.350mm/s	02:52:20	29/10/2018
Hour 5	0.018	0.019	0.024	0.028	0.028	0.049		.325mm/s	03:19:00	29/10/2018
Hour 6	0.019	0.019	0.026	0.029	0.03	0.05		1.00mm/s	04:16:10	29/10/2018
Hour 7	0.119	0.019	0.037	0.030	0.029	0.064		1.45mm/s	05:59:30	29/10/2018
Hour 8	0.019	0.019	0.031	0.024	0.028	0.065		.775mm/s	06:08:10	29/10/2018



Table 2Results of ppv and vdv measurements

Detailed results of the PPV and VDV long term vibration measurements are given in Table 1 above.

The vdv results are summarised in the table below for the daytime and night-time periods.

Time Period		Vibration Dose Value m/s1.75			Peak Particle Velocity mm/s
		L	Т	V	Resultant Vector
25 th October 2018 – 14 Hr		0.027	0.027	0.052	*20.0mm/s
26 th October 2018 – 16 Hr		0.038	0.037	0.08	2.53mm/s
27 th October 2018 – 16 Hr		0.039	0.044	0.109	2.88mm/s
28 th October 2018 – 16 Hr		0.037	0.039	0.084	3.30mm/s
25 ^{th -} 26 th October 2018 – 8 Hr		0.033	0.029	0.046	1.53mm/s
26 ^{th -} 27 th October 2018 – 8 Hr		0.034	0.035	0.088	3.30mm/s
27 th – 28 th October 2018 – 8 Hr		0.032	0.032	0.052	1.78mm/s
28 th – 29 th October 2018 – 8 Hr		0.031	0.032	0.055	2.05mm/s
Table 3 Summary of daily VDV and PPV					

*Denotes initial set up values of vibration.

The vibration results indicate that vibration dose values (vdv) at the measurement locations are below 0.2 - 0.4 for daytime and night time periods. These values are below the range associated with 'low probability of adverse comment'.

The maximum peak particle velocity recorded was found to be 3.30 mm/s at Location 1. In accordance with the guidance in BS7385, this value is below the limit at which cosmetic damage to a building is likely.

The results of this vibration survey indicate that in accordance with the advice given in the appropriate standards, there is likely to be no concern of adverse comments from future occupants of their properties and no concern of cosmetic damage to buildings arising from vibration at this measurement location.

12 ELEMENT 4 – ASSESSMENT OF OTHER RELEVANT ISSUES

The National Planning Policy Framework 2019 (NPPF) and assessments to the Noise Policy Statement for England 2010 (NPSE) should be made in conjunction with each other. Paragraphs 180 - 183 of the National Planning Policy Framework 2019 (NPPF) states the following:

Paragraph 180 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 181 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 planmaking stage, to ensure a strategic approach and limit the need for issues to be reconsidered when determining individual applications.

Paragraph 182 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 183 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.



13 ACOUSTIC DESIGN STATEMENT

OVERALL OUTCOME	NOEL – No Observed Effect Level
NPPF & NPSE	With the glazing / ventilation specifications achieved within this report, the development can be implemented within the guidelines of the aforementioned documents and ensure a conclusion of NOEL – No Observed Effect Level. This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.
External Living Areas	The calculations demonstrate the external living spaces surrounding the plots are likely to see noise levels below the upper guideline of 55 dB.
LAmax dB Noise Levels	Assessments and calculations demonstrate that the LAmax dB Levels are within the criteria set out within PRoPG
Internal Noise Levels	Calculations have been carried out and assessments made to BS 8233: 2014 together with design specifications supplied for the required glazing and ventilation specifications required across the development to ensure compliance.
Good Acoustic Design	Given the size and orientation of the proposed site, it is recommended that the developer adopted, where practically possible, a good acoustic design which should include careful consideration of the positioning of the proposed properties together with thoughts being taken as to internal layouts to minimise noise sensitive rooms facing onto dominant noise sources within the local areas.



14 RECOMMENDATION TO DECISION MAKER

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

National Planning Policy Framework 2019 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

Based on the calculations and assessments made within this report it is the professional opinion of Sound Advice Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2019, NPPF & NPSE and that, with regards to sound, planning permission can be granted using the following parameters.

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

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

RECOMMENDATION TO DECISION MAKER Grant with Noise Conditions



15 CONCLUSION

15.1 Background Noise Levels

A 96 hour background noise survey was undertaken from $25^{th} - 29^{th}$ October 2018 at three positions (as shown on the site plan) in order to establish the underlying background noise levels. The maximum day time and night time levels are shown in the table below:

Assessment Position	Date Start	Date Finish	Daytime LAeq	Night Time LAeq
Position 1	25/10/2018	29/10/2018	71.7	64.3
Position 2	25/10/2018	29/10/2018	66.0	56.0
Position 3	25/10/2018	27/10/2018	60.8	57.5

15.2 Conclusions

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

15.3 Potential Façade Noise Levels – Position 1

15.3.1 Daytime (07:00-23:00)

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 1 - Low	
Average Daytime (07:00-23:00)	L _{Aeq, 16 HOUR} 61 dB	50 - 63 dB	

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

Time Period	Highest Potential Façade Noise Level	Noise Risk Category 2 - Medium	
Average Night Time (23:00-07:00)	L _{Aeq, 16 HOUR} 55.0 dB	55 - 60 dB	
Average Night Time (23.00 07.00)	Maximum (10 Times) – L _{Amax} 79.5 dB	>80 dB (10 Times in 8 Hours)	



15.4 Risk Assessment

15.4.1 Daytime (07:00-23:00)

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

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

Risk Assessment Category	Risk Assessment			
	As noise levels increase, the site is likely to be less suitable from a noise perspective and any			
	subsequent application may be refused unless a good acoustic design process is followed and is			
2 - Medium	demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and			
	minimised, and which clearly demonstrate that a significant adverse noise impact will be avoided			
	in the finished development.			

The above table demonstrates this site is located within Noise Risk Category 1 which suggests a low level of risk for daytime levels and Noise Risk Category 2 which suggests a Medium level of risk for night time levels. Therefore, further mitigation levels will be required at Stage 2.

15.5 Glazing & Ventilation Specification

The development should be designed as shown in the table below or similarly approved to all rooms to ensure the internal noise levels are acceptable in terms of the assessment to British Standard 8233: 2014. It will also be necessary to upgrade the ceiling in the loft rooms to 2 x 15mm soundbloc with a night time façade level > 51 dB.

Night Time Façade level	Ground Floor Lounge	Mid Floor Master Bedroom	Top Floor Bedroom 2
51 - 55 dB	6mm – 6 – 16 / 4mm	6mm / 16mm Argon / 6.8	6mm / 16mm Argon / 6.8
	With MVHR	Pilkington Optiphon with MVHR	Pilkington Optiphon with MVHR
46 - 50 dB	4mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm	8mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon V75/C75 Vent	With Titon V75/C75 Vent
<45 dB	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm	4mm – 6 – 16 / 4mm
	With Titon standard vent / C25	With Titon standard vent / C25	With Titon standard vent / C25

15.6 WHO Guidelines for Community Noise

The development proposes external living areas and therefore an assessment to the World Health Organisation's 'Guidelines for Community Noise' has been carried out. The guideline has been considered acceptable criteria for this assessment given the sites geographical location and proximity to a major road and railway. Calculations have indicated external living spaces are likely to be below the upper guideline of 55 dB.



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

National Planning Policy Framework 2019 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

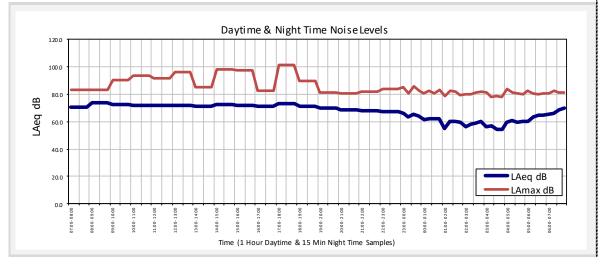
Based on the calculations and assessments made within this report it is the professional opinion of Sound Advice Acoustics Ltd that the proposed development can demonstrate compliance with the National Planning Policy Framework 2019, NPPF & NPSE and that, with regards to sound, planning permission can be granted.



16 RESULTS

16.1 25 – 26th October 2018 Position 1

SE LEVEL SUMMARY ASSESSN	IENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Corr esponding LAmax 16 HOUR	71.3	100.9	64.4	67.4	64.0	61.6	62.6	68.6	65.8	54.5	48.2	38.3
NIGHTTIME 23:00 - 07:00												
LA eq 8 HOUR & Cor r esponding LA max 8 HOUR	62.9	85.8	56.3	59.7	57.5	53.2	54.1	60.4	57.0	46.1	34.8	16.6
TIME NOISE LEVELS 07:00 -	- 23:00 1 H	IOUR SAM	PLES									
Date / Time	LAeq	LAmax				Octave E	Band Cent	re Freque	ency (Hz)			
Date / Time	LAeq		3 1.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	70.3	83.3	62.6	66.2	62.5	59.9	61.1	67.8	64.2	53.1	4 1.5	21.4
08:00 - 09:00	73.5	83.2	65.8	69.1	66.1	63.0	64.4	70.9	67.5	56.0	43.8	25.0
09:00 - 10:00	72.6	90.0	69.5	68.7	64.1	60.2	63.1	69.9	66.7	56.9	58.3	50.1
10:00 - 11:00	71.9	93.6	65.3	67.8	62.5	61.5	63.5	69.3	65.8	54.1	44.1	26.5
11:00 - 12:00	71.8	91.8	65.1	68.1	63.3	62.9	63.8	69.1	65.6	55.9	46.7	28.1
12:00 - 13:00	71.8	96.0	64.6	68.0	63.9	62.6	63.6	69.0	66.1	53.5	42.4	25.5
13:00 - 14:00	71.1	84.9	64.8	67.9	64.6	61.9	63.0	68.5	65.0	53.6	42.9	24.5
14:00 - 15:00	72.2	97.9	64.7	67.7	64.0	61.4	62.8	69.4	66.4	56.7	44.3	25.3
15:00 - 16:00	71.8	97.3	64.6	68.6	65.1	61.5	62.8	68.8	66.7	54.7	43.0	23.5
16:00 - 17:00	71.4	82.1	64.1	68.0	63.9	62.5	62.9	68.8	65.4	53.9	46.0	26.1
17:00 - 18:00	73.2	100.9	64.1	68.1	65.4	64.1	63.2	68.8	69.5	55.4	42.6	23.
18:00 - 19:00	71.2	89.4	63.2	67.7	65.6	62.2	62.9	68.3	65.1	56.1	49.1	31.0
19:00 - 20:00	70.0	81.1	62.0	65.7	61.3	59.1	61.0	67.6	64.1	52.2	40.4	22.9
	68.4	80.3	59.4	63.6	60.5	57.8	59.2	65.9	62.6	51.0	38.6	19.7
20:00 - 21:00												
21:00 - 22:00	67.7	82.1	58.0	63.2	63.9	57.7	58.8	65.1	61.7	50.4	38.8	20.6
22:00 - 23:00	67.2	84.0	57.0	61.4	61.8	59.8	58.4	64.6	61.3	49.7	37.4	18.9
HT TIME NOISE LEVELS 23:0	0 - 07:00	15 MINUTI	ESAMPL	.ES								
Date / Time	LAeq	LAmax	31.5	63	12 5	Octave E 250	Sand Cent 500	re Freque 1.0 k	ency (Hz) 2.0 k	4.0 k	8.0 k	16.0
23:00 - 23:15	65.9	85.0	58.2	61.7	62.2	58.1	57.2	63.2	59.9	49.2	38.8	20.9
23:15 - 23:30	63.0	80.4	58.0	57.9	52.0	51.5	53.6	60.5	57.2	46.1	33.9	15.8
23:30 - 23:45	65.4	85.8	54.5	61.6	61.7	56.1	56.7	62.6	59.6	49.2	39.6	20.9
	63.7	82.1	56.9	60.8	60.1	55.0	55.5	61.0		46.9	34.8	15.9
23:45 - 00:00		80.4							57.7			
00:00 - 00:15	61.4		50.7	56.0	51.4	50.3	54.1	58.9	55.2	44.0	31.5	13.7
00:15 - 00:30	61.8	82.1	49.8	61.0	60.2	52.5	51.9	59.2	55.9	44.9	31.7	14.5
00:30 - 00:45	62.0	80.5	49.9	61.5	59.9	53.2	52.2	59.3	56.3	45.1	32.5	14.3
00:45 - 01:00	62.1	82.8	50.6	54.5	51.6	48.7	52.3	59.7	56.0	44.7	33.4	15.5
01:00 - 01:15	54.9	78.8	53.4	54.9	49.8	46.7	46.6	51.9	49.2	38.8	27.1	12.0
01:15 - 01:30	60.0	82.1	52.5	52.7	48.8	47.5	49.9	57.5	54.1	43.2	31.1	13.7
01:30 - 01:45	60.1	81.6	55.7	56.9	50.5	48.0	51.3	57.9	53.7	42.4	30.0	13.2
01:45 - 02:00	59.3	79.2	48.4	50.7	47.3	44.5	49.9	56.8	53.5	42.2	29.1	12.5
02:00 - 02:15	56.4	79.5	49.3	51.8	47.1	45.6	47.5	53.7	50.5	39.8	28.5	12.3
02:15 - 02:30	58.1	80.1	50.8	55.3	48.6	47.1	50.6	55.6	51.7	40.8	29.9	13.5
02:30 - 02:45	59.0	81.4	50.0	52.5	50.2	48.3	49.0	56.1	53.5	42.8	30.6	13.5
02:45 - 03:00	60.0	81.6	56.1	54.9	52.2	49.7	51.3	57.6	53.6	43.2	31.6	15.1
03:00 - 03:15	56.2	81.4	55.7	63.4	61.6	54.2	47.2	52.9	48.7	38.5	30.5	13.0
03:15 - 03:30	56.7	77.6	48.1	56.7	51.8	46.1	47.7	54.2	50.3	39.4	27.9	12.2
00.10 00.00	54.5	78.2	48.7	52.4	45.7	44.7	45.4	51.7	48.8	38.0	26.0	11.7
03:30 - 03:45	J-1.J	77.7	52.1	48.9	43.1	44.7	44.8	51.5	48.3	37.3	25.1	11.2
03:30 - 03:45	54.1			46.9 54.6								
03:45 - 04:00	54.1		E2 2		49.4	46.8	50.6	56.9	53.9	43.1	30.8	13.9 13.8
03:45 - 04:00 04:00 - 04:15	59.6	83.5	53.2			47.0						
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30	59.6 60.6	83.5 81.3	53.9	56.1	49.5	47.8	51.4	58.1	54.6	43.7	31.2	
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45	59.6 60.6 59.7	83.5 81.3 80.4	53.9 52.8	56.1 54.2	49.5 48.3	47.3	50.5	57.1	53.9	42.4	30.0	12.8
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00	59.6 60.6 59.7 60.2	83.5 81.3 80.4 80.1	53.9 52.8 48.9	56.1 54.2 54.4	49.5 48.3 53.3	47.3 50.2	50.5 50.1	57.1 57.5	53.9 54.5	42.4 44.3	30.0 32.3	12.8 14.2
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45	59.6 60.6 59.7	83.5 81.3 80.4 80.1 82.6	53.9 52.8	56.1 54.2 54.4 57.7	49.5 48.3 53.3 55.8	47.3	50.5	57.1 57.5 57.2	53.9	42.4 44.3 44.6	30.0 32.3 37.3	12.8 14.2
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00	59.6 60.6 59.7 60.2	83.5 81.3 80.4 80.1	53.9 52.8 48.9	56.1 54.2 54.4	49.5 48.3 53.3	47.3 50.2	50.5 50.1	57.1 57.5	53.9 54.5	42.4 44.3	30.0 32.3	12.8 14.2 19.7
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15	59.6 60.6 59.7 60.2 60.1	83.5 81.3 80.4 80.1 82.6	53.9 52.8 48.9 56.3	56.1 54.2 54.4 57.7	49.5 48.3 53.3 55.8	47.3 50.2 52.6	50.5 50.1 51.8	57.1 57.5 57.2	53.9 54.5 54.0	42.4 44.3 44.6	30.0 32.3 37.3	12.8 14.2 19.7 16.6
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15 05:15 - 05:30	59.6 60.6 59.7 60.2 60.1 63.5	83.5 81.3 80.4 80.1 82.6 80.6	53.9 52.8 48.9 56.3 58.2	56.1 54.2 54.4 57.7 59.8	49.5 48.3 53.3 55.8 60.0	47.3 50.2 52.6 53.4	50.5 50.1 51.8 54.4	57.1 57.5 57.2 60.9	53.9 54.5 54.0 57.4	42.4 44.3 44.6 46.6	30.0 32.3 37.3 35.6	12.8 14.2 19.7 16.6 16.8
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15 05:15 - 05:30 05:30 - 05:45	59.6 60.6 59.7 60.2 60.1 63.5 64.7	83.5 81.3 80.4 80.1 82.6 80.6 79.7	53.9 52.8 48.9 56.3 58.2 56.7	56.1 54.2 54.4 57.7 59.8 59.6	49.5 48.3 53.3 55.8 60.0 63.9	47.3 50.2 52.6 53.4 54.8	50.5 50.1 51.8 54.4 54.7	57.1 57.5 57.2 60.9 62.0	53.9 54.5 54.0 57.4 58.8	42.4 44.3 44.6 46.6 47.3	30.0 32.3 37.3 35.6 35.2	12.8 14.2 19.7 16.6 16.8 18.4
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15 05:15 - 05:30 05:30 - 05:45 05:45 - 06:00	59.6 60.6 59.7 60.2 60.1 63.5 64.7 64.9	83.5 81.3 80.4 80.1 82.6 80.6 79.7 80.6	53.9 52.8 48.9 56.3 58.2 56.7 59.0	56.1 54.2 54.4 57.7 59.8 59.6 60.3	49.5 48.3 53.3 55.8 60.0 63.9 56.8	47.3 50.2 52.6 53.4 54.8 55.1	50.5 50.1 51.8 54.4 54.7 56.7	57.1 57.5 57.2 60.9 62.0 62.4	53.9 54.5 54.0 57.4 58.8 58.7	42.4 44.3 44.6 46.6 47.3 48.1	30.0 32.3 37.3 35.6 35.2 37.2	12.8 12.8 14.2 19.7 16.6 16.8 18.4 17.5 18.7
03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15 05:15 - 05:30 05:30 - 05:45 05:45 - 06:00 06:00 - 06:15	59.6 60.6 59.7 60.2 60.1 63.5 64.7 64.9 65.3	83.5 81.3 80.4 80.1 82.6 80.6 79.7 80.6 80.4	53.9 52.8 48.9 56.3 58.2 56.7 59.0 58.6	56.1 54.2 54.4 57.7 59.8 59.6 60.3 60.9	49.5 48.3 53.3 55.8 60.0 63.9 56.8 56.6	47.3 50.2 52.6 53.4 54.8 55.1 55.8	50.5 50.1 51.8 54.4 54.7 56.7 56.7	57.1 57.5 57.2 60.9 62.0 62.4 62.8	53.9 54.5 54.0 57.4 58.8 58.7 59.1	42.4 44.3 44.6 46.6 47.3 48.1 47.9	30.0 32.3 37.3 35.6 35.2 37.2 36.5	12.8 14.2 19.7 16.6 16.8 18.4 17.5



Sound Ad√ice A C O U S T I C S L T D

16.2 26 – 27th October 2018 Position 1

LAeq 71.4 63.6 3:00 1 H LAeq 70.6 71.1 73.0 72.0 73.2	LAmax 101.3 83.8 IOUR SAM LAmax 81.0 82.6 101.3	31.5 63.8 55.0 PLES 31.5 63.6 64.2	63 67.6 58.5 63	125 64.4 56.0	250 61.7 52.7	500 62.5 54.2	1.0k 68.7 61.1	2.0k 66.0 57.9	4.0k 54.7 46.7	8.0k 43.6 33.9	16. 25. 15.
63.6 3:00 1 H LA eq 70.6 71.1 73.0 72.0	83.8 IOUR SAM LAmax 81.0 82.6	55.0 PLES 31.5 63.6	58.5 63	56.0	52.7						
3:00 1 H LA eq 70.6 71.1 73.0 72.0	IOUR SAM LAmax 81.0 82.6	PLES 31.5 63.6	63			54.2	61.1	57.9	46.7	33.9	15
LA eq 70.6 71.1 73.0 72.0	LA max 81.0 82.6	3 1.5 63.6									
70.6 71.1 73.0 72.0	81.0 82.6	63.6									
71.1 73.0 72.0	82.6			125	250	3and Cent 500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
73.0 72.0		64.2	67.7	64.3	61.9	62.2	68.0	64.6	53.1	44.8	25
72.0	10 1.3	04.2	68.4	64.7	61.7	62.7	68.6	65.1	53.5	43.3	24
		64.6	68.4	64.7	61.9	62.7	68.6	69.3	57.2	44.0	23
	95.6	65.2	68.0	63.1	62.9	63.2	69.2	66.1	57.5	47.2	27
73.2	100.4 81.7	65.1 65.1	68.5 68.0	63.6 63.0	61.2 61.4	62.6 63.2	69.3 69.1	69.0 65.7	57.0 54.3	46.3 42.7	27 24
71.5	88.3	64.5	67.8	63.6	61.9	63.0	69.1	65.3	53.7	42.7	24
											27
73.4	94.9	64.6	68.3	65.6	62.7	63.6	70.7	67.6	56.6	44.8	26
71.9	82.0	64.6	68.8	65.0	62.8	63.0	69.3	65.9	54.2	43.2	23
71.9	83.2	63.7	67.9	65.3	62.7	63.0	69.3	65.9	54.0	41.6	23
71.4	82.1	63.2	68.5	65.3	61.6	62.4	68.8	65.5	53.8	4 1.5	23
70.5	85.1	61.6	66.4	64.1	62.7	62.7	67.8	64.5	53.0	4 1.5	24
69.1	81.5	60.4	64.9	67.2	60.4	60.2	66.4	63.2	51.8	40.0	20
67.9	81.1	58.9	63.9	60.7	56.7	58.6	65.3	62.0	50.6	38.0	21
67.8	80.9	58.1	62.2	58.7	56.6	58.4	65.1	62.1	50.7	38.4	19
		ESAMPL	ES		Octave F	Sand Cont	ro Eroque	ncy (Hz)			
LAeq	LAmax	31.5	63	12.5					4.0 k	8.0 k	16.
67.4	81.4			57.2		57.9					16
67.6	82.2	57.4	61.5	60.4	56.6	57.9	64.9	62.0	50.6	36.7	19
65.6	81.3	56.6	61.5	57.3	54.6	56.2	63.0	59.6	48.6	35.6	16
65.4	82.5	54.1	57.9	53.9	52.9	56.0	62.8	59.5	48.3	35.3	16
65.9	81.6	58.8	60.2	56.6	54.7	57.3	63.4	59.9	48.8	36.0	18
64.5	82.8	54.2	59.4	59.8	58.2	56.5	61.6	58.6	47.1	33.8	14
								57.5			13
											14
											13
											13 14
											13
											12
											13
62.5	83.2	51.2	53.4	50.9	49.5	52.5	60.0	56.7	45.2	31.3	13
62.0	81.2	55.2	59.2	61.0	54.7	53.3	59.5	55.6	44.6	35.0	18
57.9	79.0	50.1	52.8	47.5	46.5	47.8	55.2	52.4	41.1	27.3	11
60.0	81.7	52.3	53.2	49.8	47.8	50.2	57.7	54.0	42.9	32.3	16
61.2	83.8	53.2	56.4	57.1	51.2	50.9	58.7	55.4	44.1	30.4	12
											13
											14
											12
											12
											12
											12 12
											12
											15
						53.9					14
	82.3						60.9				18
66.6	83.8	59.8	61.0	56.2	54.5	57.2	64.2	60.5	49.0	36.3	17
	81.6	60.5	63.6	61.5	57.2						
	71.6 73.4 71.9 71.9 71.9 69.1 67.9 67.8 07:00 LAeq 67.4 67.6 65.6 65.6 65.4 65.6 65.4 65.9 64.5 63.1 64.5 63.1 64.5 63.1 64.5 63.6 61.6 63.2 60.8 61.7 62.0 57.9 60.0 57.9 60.0 57.9 60.0 57.9 60.2 58.0 58.9 60.4 59.3 59.3 59.3 59.3 65.1 63.6 63.5	71.6 80.7 73.4 94.9 71.9 82.0 71.9 83.2 71.4 82.1 70.5 85.1 67.9 81.1 67.8 80.9 07:00 15 M INUTI LAcq LAmax 67.4 81.4 67.6 82.2 65.6 81.3 65.9 81.6 64.5 82.8 63.1 82.0 64.2 81.6 63.6 83.1 61.6 79.9 60.3 79.9 60.8 81.7 61.7 82.2 62.0 81.2 63.2 83.2 62.0 81.2 61.7 82.2 62.0 81.2 61.2 83.8 60.2 83.5 58.0 79.0 61.2 83.8 60.2 83.5 <td< td=""><td>716 80.7 64.7 73.4 94.9 64.6 719 82.0 64.6 719 82.0 64.6 719 82.1 63.7 714 82.1 63.7 714 82.1 63.7 70.5 85.1 61.6 69.1 81.5 60.4 67.9 81.1 58.9 67.8 80.9 58.1 Control to MINUTE SAMPL LAcq LAcq LAmax 67.6 82.2 57.4 65.6 81.3 56.6 65.5 81.3 56.6 65.9 81.6 53.3 64.5 82.8 54.2 63.1 82.0 52.7 64.2 81.6 53.3 63.6 83.1 54.7 61.6 79.9 50.6 60.3 79.9 50.6 60.3 79.9 50.6</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>71.6 80.7 64.7 67.8 64.6 61.5 62.8 73.4 94.9 64.6 68.3 65.6 62.7 63.6 71.9 82.0 64.6 68.8 65.0 62.8 63.0 71.9 83.2 63.7 67.9 65.3 62.7 63.0 71.4 82.1 63.2 68.5 65.3 616 62.4 69.1 81.5 60.4 64.1 62.7 62.7 67.8 80.9 58.1 62.2 58.7 56.6 58.4 Octave Band Cent Octave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Gotave Band Cent <!--</td--><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>716 80.7 64.7 67.8 64.6 61.5 62.8 68.9 65.7 73.4 94.9 64.6 68.3 65.6 62.7 63.6 70.7 67.6 719 82.0 64.6 68.8 65.0 62.8 63.0 69.3 65.9 719 83.2 63.7 67.9 65.3 61.6 62.4 68.8 65.5 70.5 85.1 61.6 66.4 64.1 62.7 67.4 66.4 63.2 67.9 81.1 58.9 63.9 60.7 56.6 65.3 61.6 62.4 Cotave Band Centre Frequency (H2) Cotave Band</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td></td></td<>	716 80.7 64.7 73.4 94.9 64.6 719 82.0 64.6 719 82.0 64.6 719 82.1 63.7 714 82.1 63.7 714 82.1 63.7 70.5 85.1 61.6 69.1 81.5 60.4 67.9 81.1 58.9 67.8 80.9 58.1 Control to MINUTE SAMPL LAcq LAcq LAmax 67.6 82.2 57.4 65.6 81.3 56.6 65.5 81.3 56.6 65.9 81.6 53.3 64.5 82.8 54.2 63.1 82.0 52.7 64.2 81.6 53.3 63.6 83.1 54.7 61.6 79.9 50.6 60.3 79.9 50.6 60.3 79.9 50.6	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	71.6 80.7 64.7 67.8 64.6 61.5 62.8 73.4 94.9 64.6 68.3 65.6 62.7 63.6 71.9 82.0 64.6 68.8 65.0 62.8 63.0 71.9 83.2 63.7 67.9 65.3 62.7 63.0 71.4 82.1 63.2 68.5 65.3 616 62.4 69.1 81.5 60.4 64.1 62.7 62.7 67.8 80.9 58.1 62.2 58.7 56.6 58.4 Octave Band Cent Octave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Gotave Band Cent Octave Band Cent Gotave Band Cent </td <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>716 80.7 64.7 67.8 64.6 61.5 62.8 68.9 65.7 73.4 94.9 64.6 68.3 65.6 62.7 63.6 70.7 67.6 719 82.0 64.6 68.8 65.0 62.8 63.0 69.3 65.9 719 83.2 63.7 67.9 65.3 61.6 62.4 68.8 65.5 70.5 85.1 61.6 66.4 64.1 62.7 67.4 66.4 63.2 67.9 81.1 58.9 63.9 60.7 56.6 65.3 61.6 62.4 Cotave Band Centre Frequency (H2) Cotave Band</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	716 80.7 64.7 67.8 64.6 61.5 62.8 68.9 65.7 73.4 94.9 64.6 68.3 65.6 62.7 63.6 70.7 67.6 719 82.0 64.6 68.8 65.0 62.8 63.0 69.3 65.9 719 83.2 63.7 67.9 65.3 61.6 62.4 68.8 65.5 70.5 85.1 61.6 66.4 64.1 62.7 67.4 66.4 63.2 67.9 81.1 58.9 63.9 60.7 56.6 65.3 61.6 62.4 Cotave Band Centre Frequency (H2) Cotave Band	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

11:00-12:00 12:00-13:00

10:00-11:00

:-00:60

13:00-14:00

14:00-15:00 1 6:00 17.00

15:00-1 16:00-1 17:00-18:00

18:00-19:00 19:00-20:00

Time (1 Hour Daytime & 15 Min Night Time Samples)

0.0

07:00-08:00

LAmax dB

5:00-0

04:00-05:00

7.00

6:00-0

23:00-00:00

00:00-01:00

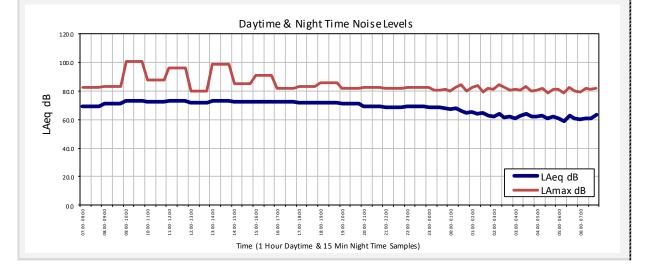
01:00-02:00

02:00-03:00

20:00-21:00 21:00-22:00 22:00-23:00

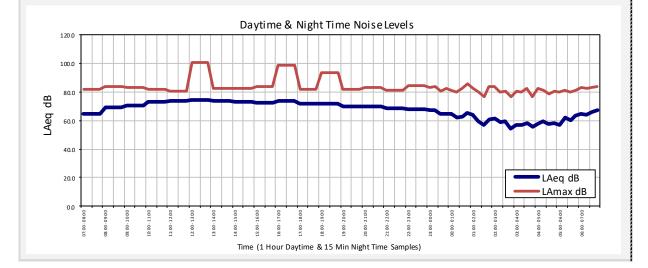
16.3 27 – 28th October 2018 Position 1

SE LEVEL SUMMARY ASSESS	VENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Corr esponding LAmax 16 HOUR	71.6	100.4	63.4	67.5	65.1	62.0	62.8	69.1	65.9	54.2	42.4	25.0
NIGHT TIME 23:00 - 07:00	64.3	84.4	57.2	59.2	57.1	54.3	55.0	62.0	58.2	47.6	39.5	23.9
TIME NOISE LEVELS 07:00			PLES			Octave E	and Cent	re Freque	encv (Hz)			
Date / Time	LAeq	LAmax	31.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	69.4	82.5	60.7	65.4	62.6	59.2	60.1	66.8	63.5	52.3	39.5	20.
08:00 - 09:00	71.4	82.9	63.0	66.4	64.4	60.5	62.2	68.8	65.5	54.1	41.2	22.
09:00 - 10:00	72.8	100.4	63.7	67.3	62.8	60.5	62.8	69.8	67.9	55.0	42.1	23.
10:00 - 11:00	72.6	87.5	64.5	67.8	64.2	62.7	64.0	70.1	66.7	55.3	45.1	27.
11:00 - 12:00	73.0	96.0	64.9	68.6	65.8	62.9	64.0	70.5	66.7	56.5	44.8	26.8
12:00 - 13:00	72.0	79.9	64.2	68.5	65.1	62.6	63.7	69.5	65.9	54.1	41.7	24.
13:00 - 14:00	73.0	98.8	65.9	69.2	65.6	63.4	64.0	69.8	68.1	56.2	45.1	27.6
14:00 - 15:00	72.5	84.9	64.4	68.9	65.7	62.9	64.2	70.0	66.4	54.8	43.5	26.
15:00 - 16:00	72.3	90.8	64.1	68.0	66.6	64.3	63.8	69.8	66.2	54.2	42.5	28.
16:00 - 17:00	72.2	81.9	63.6	67.9	65.1	61.9	63.3	69.7	66.1	54.0	41.2	22.
17:00 - 18:00	71.9	82.8	63.8	67.2	63.2	61.5	63.1	69.4	65.9	54.0	42.5	24.
18:00 - 19:00	71.8	85.6	63.0	67.9	66.6	63.8	63.4	69.1	65.7	53.8	41.0	22.
19:00 - 20:00	70.9	82.0	62.1	66.9	63.3	60.9	62.0	68.4	65.0	53.2	41.2	26.
20:00 - 21:00	69.3	82.7	60.6	64.7	68.7	60.5	60.3	66.7	63.2	51.6	40.2	23.
21:00 - 22:00	68.2	82.0	59.2	64.2	60.1	57.0	58.8	65.8	62.1	50.5	38.4	20.
22:00 - 23:00	69.1	82.4	60.6	65.7	63.9	59.8	59.9	66.8	62.8	51.3	39.1	20.
HT TIME NOISE LEVELS 23:0 Date / Time	00 - 07:00 LAeq	15 M INUTI LAmax	E SAM PL 31.5	ES 63	12 5	Octave E 250	and Cent 500	re Freque 1.0 k	ency (Hz) 2.0 k	4.0 k	8.0 k	16.0
					12 5 61.7			-		4.0 k 51.7	8.0 k 40.5	
	LAeq	LAmax	3 1.5	63		250	500	1.0 k	2.0 k			20.
Date / Time 23:00 - 23:15	LA eq 68.6	LA max 82.4	31.5 62.5	63 66.1	61.7	250 58.8	500 59.1	1.0 k 66.1	2.0 k 62.5	51.7	40.5 38.7 41.8	20. 20.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 68.6 68.3 68.6 67.9	LA max 82.4 80.3 80.6 81.2	3 1.5 62.5 60.1 59.7 58.9	63 66.1 63.1 63.6 60.0	61.7 63.9 59.2 55.9	250 58.8 58.5 56.6 54.8	500 59.1 58.6 59.1 58.3	1.0 k 66.1 65.8 66.2 65.6	2.0 k 62.5 62.2 62.7 61.7	51.7 50.9 51.6 50.2	40.5 38.7 41.8 38.2	20.0 20.0 25.0 21.0
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15	LA eq 68.6 68.3 68.6 67.9 67.2	LA max 82.4 80.3 80.6 81.2 79.7	31.5 62.5 60.1 59.7 58.9 59.6	63 66.1 63.1 63.6 60.0 60.9	61.7 63.9 59.2 55.9 56.1	250 58.8 58.5 56.6 54.8 54.8	500 59.1 58.6 59.1 58.3 57.5	1.0 k 66.1 65.8 66.2 65.6 65.0	2.0 k 62.5 62.2 62.7 61.7 60.9	51.7 50.9 51.6 50.2 49.6	40.5 38.7 41.8 38.2 39.5	20. 20. 25. 21.0 23.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30	LA eq 68.6 68.3 68.6 67.9 67.2 67.7	LA max 82.4 80.3 80.6 81.2 79.7 82.2	31.5 62.5 60.1 59.7 58.9 59.6 63.7	63 66.1 63.1 63.6 60.0 60.9 64.1	61.7 63.9 59.2 55.9 56.1 61.9	250 58.8 58.5 56.6 54.8 54.6 58.5	500 59.1 58.6 59.1 58.3 57.5 59.3	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3	51.7 50.9 51.6 50.2 49.6 53.3	40.5 38.7 41.8 38.2 39.5 47.7	20.0 20.0 25.0 21.0 23.0 32.0
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 68.6 68.3 68.6 67.9 67.2 67.7 66.0	LA max 82.4 80.3 80.6 81.2 79.7 82.2 84.4	31.5 62.5 60.1 59.7 58.9 59.6 63.7 59.0	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5	61.7 63.9 59.2 55.9 56.1 61.9 62.8	250 58.8 58.5 56.6 54.8 54.6 58.5 58.5 56.8	500 59.1 58.6 59.1 58.3 57.5 59.3 56.8	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 63.8	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4	51.7 50.9 51.6 50.2 49.6 53.3 49.0	40.5 38.7 41.8 38.2 39.5 47.7 42.2	20.4 20.1 25.3 21.0 23.1 32.1 27.1
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00	LA eq 68.6 68.3 68.6 67.9 67.2 67.7 66.0 64.7	LA max 82.4 80.3 80.6 81.2 79.7 82.2 84.4 80.0	31.5 62.5 60.1 59.7 58.9 59.6 63.7 59.0 56.5	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5 57.9	61.7 63.9 59.2 55.9 56.1 61.9 62.8 53.2	2 50 58.8 58.5 56.6 54.8 54.6 58.5 56.8 52.1	500 59.1 58.6 59.1 58.3 57.5 59.3 56.8 54.7	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 63.8 62.5	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4 58.5	51.7 50.9 51.6 50.2 49.6 53.3 49.0 47.7	40.5 38.7 41.8 38.2 39.5 47.7 42.2 39.5	20.0 20.0 25.0 21.0 23.0 32.0 27.0 24.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15	LA eq 68.6 68.3 67.9 67.2 67.7 66.0 64.7 65.2	LA max 82.4 80.3 80.6 81.2 79.7 82.2 84.4 80.0 82.4	31.5 62.5 60.1 59.7 58.9 59.6 63.7 59.0 56.5 56.6	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5 57.9 59.9	61.7 63.9 59.2 55.9 56.1 61.9 62.8 53.2 57.4	2 50 58.8 58.5 56.6 54.8 54.6 58.5 56.8 52.1 53.5	500 59.1 58.6 59.1 58.3 57.5 59.3 56.8 54.7 55.8	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 63.8 62.5 62.9	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4 58.5 58.9	51.7 50.9 51.6 50.2 49.6 53.3 49.0 47.7 48.0	40.5 38.7 41.8 38.2 39.5 47.7 42.2 39.5 38.3	20.3 20.0 25.3 21.0 23.0 32.0 27.0 24. 22.3
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:15 - 01:30	LA eq 68.6 68.3 68.6 67.9 67.2 67.7 66.0 64.7 65.2 63.7	LA max 82.4 80.3 80.6 81.2 79.7 82.2 84.4 80.0 82.4 83.7	31.5 62.5 60.1 59.7 58.9 59.6 63.7 59.0 56.5 56.6 55.9	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5 57.9 59.9 56.8	61.7 63.9 59.2 55.9 56.1 61.9 62.8 53.2 57.4 56.8	2 50 58.8 58.5 56.6 54.8 54.6 58.5 56.8 52.1 53.5 52.9	500 59.1 58.6 59.1 58.3 57.5 59.3 56.8 54.7 55.8 53.6	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 63.8 62.5 62.9 61.2	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4 58.5 58.9 57.7	51.7 50.9 51.6 50.2 49.6 53.3 49.0 47.7 48.0 47.1	40.5 38.7 41.8 38.2 39.5 47.7 42.2 39.5 38.3 38.9	20.3 20.0 25.3 21.0 23.0 32.0 27.0 24. 22.3 23.0
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45	LA eq 68.6 68.3 68.6 67.9 67.2 67.7 66.0 64.7 65.2 63.7 64.6	LA max 82.4 80.3 80.6 812 79.7 82.2 84.4 80.0 82.4 83.7 79.1	31.5 62.5 60.1 59.7 58.9 59.6 63.7 59.0 56.5 56.6 55.9 55.0	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5 57.9 59.9 56.8 57.8	61.7 63.9 59.2 55.9 56.1 61.9 62.8 53.2 57.4 56.8 54.4	2 50 58.8 58.5 56.6 54.8 54.6 58.5 58.5 58.5 52.1 53.5 52.9 51.1	500 59.1 58.6 59.1 58.3 57.5 59.3 56.8 54.7 55.8 53.6 54.9	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 63.8 62.5 62.9 61.2 62.2	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4 58.5 58.9 57.7 58.5	51.7 50.9 51.6 50.2 49.6 53.3 49.0 47.7 48.0 47.1 47.3	40.5 38.7 41.8 38.2 39.5 47.7 42.2 39.5 38.3 38.9 37.4	20.3 20.1 25.5 21.0 23.1 23.1 24. 22.5 23.4 21.2 23.4 21.2
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Date / Time 23:00 - 23:15 23:30 - 23:45 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:45 - 01:30 01:45 - 01:30 01:45 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 03:15 - 03:30 03:15 - 03:30 03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:15 - 04:30 04:15 - 04:30 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:15 04:15 - 04:16 05:00 - 05:15 05:15 - 05:30 05:15 - 05:45 05:45 - 06:00 06:00 - 06:15	LA eq 68.6 68.3 68.6 67.9 67.2 67.7 66.0 64.7 65.2 63.7 64.6 62.8 61.8 63.9 61.5 61.7 61.0 62.8 63.7 62.2 61.8 62.9 60.8 62.1 61.0 59.1 62.9 60.4 59.9	LA max 82.4 80.3 80.6 812 79.7 82.2 84.4 80.0 82.4 83.7 79.1 81.9 80.8 84.2 82.1 80.6 81.2 80.3 83.2 80.6 81.2 80.3 83.2 80.3 83.2 80.4 81.6 78.7 81.4 80.8 78.6 82.2 79.8 79.0	31.5 62.5 60.1 59.7 58.9 59.0 63.7 59.0 56.6 55.9 55.0 55.0 55.0 55.0 55.0 55.0 55.0	63 66.1 63.1 63.6 60.0 60.9 64.1 61.5 57.9 59.9 56.8 57.0 62.8 58.1 53.2 53.3 53.5 58.5 56.0 55.3 56.0 55.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 56.8 57.3 57.9 57.9 57.9 57.9 57.9 57.9 57.9 57.9	$\begin{array}{c} 61.7\\ 63.9\\ 59.2\\ 55.9\\ 56.1\\ 61.9\\ 62.8\\ 53.2\\ 57.4\\ 56.8\\ 54.4\\ 51.2\\ 63.1\\ 54.3\\ 50.0\\ 48.6\\ 49.2\\ 51.6\\ 51.1\\ 52.1\\ 53.1\\ 48.6\\ 49.2\\ 51.6\\ 51.1\\ 53.1\\ 48.5\\ 48.4\\ 60.5\\ 349.4\\ 60.5\\ 49.2\\ 51.1\\ \end{array}$	250 58.8 58.5 56.6 54.8 54.6 58.5 56.8 52.1 53.5 52.9 51.9 51.0 50.6 55.6 53.1 48.5 46.8 48.1 49.3 50.2 47.7 47.6 48.1 47.5 63.2 47.3 47.7	500 59.1 58.3 57.5 59.3 56.8 54.7 55.8 53.6 54.9 53.5 52.7 56.2 51.7 53.1 52.0 51.7 53.1 52.0 51.7 53.1 52.0 51.9 52.5 55.2 50.2 50.2 50.9 49.0 54.6 50.3 50.2	1.0 k 66.1 65.8 66.2 65.6 65.0 65.2 62.9 61.2 62.9 61.2 62.9 61.2 62.9 61.2 62.9 61.2 59.4 61.7 59.4 58.4 58.4 58.4 58.4 58.4 58.4 58.4 58.5 61.5 65.8 65.7 65.7 65.8 65.8 65.8 65.8 65.7 65.7 65.8 65.8 65.8 65.8 65.7 65.7 65.8	2.0 k 62.5 62.2 62.7 61.7 60.9 61.3 59.4 58.5 58.9 57.7 58.5 58.9 57.7 58.1 57.3 54.8 55.6 54.8 55.6 54.8 55.6 54.8 55.6 56.3 55.1 56.1 54.5 55.9 54.6 52.5 56.0 54.4 53.9	51.7 50.9 51.6 50.2 49.6 53.3 49.0 47.7 47.3 45.8 44.1 46.3 45.8 44.1 46.3 44.1 44.3 45.2 46.3 45.2 46.5 45.2 46.5 45.2 46.3 45.6 44.9 47.1 44.0 43.0	40.5 38.7 41.8 38.2 39.5 47.7 42.2 39.5 38.3 38.9 37.4 35.4 33.6 37.0 37.5 32.7 32.6 35.1 35.6 34.7 35.5 36.9 36.4 40.9 41.6 41.7 43.0 9 37.5 33.4	20.0.2 20.0.2 25.5.2 27.0.2 27.0.2 27.0.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 22.2.2 27.7.2 27



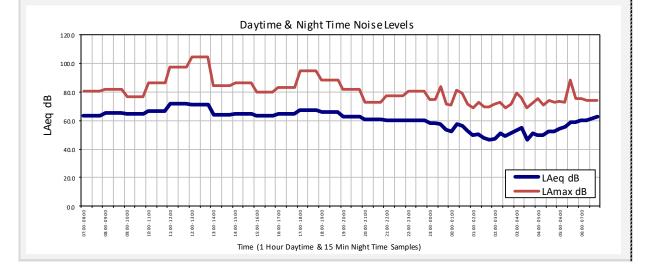
16.4 28 – 29th October 2018 Position 1

ISE LEVEL SUMMARY ASSESS	MENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Cor r esponding LAmax 16 HOUR	71.7	100.8	64.9	66.3	62.9	60.7	62.3	69.3	65.8	54.8	44.5	28.
NIGHTTIME 23:00 - 07:00 LAeg 8 HOUR & Corresponding LAmax 8 HOUR	62.7	85.7	56.1	57.3	57.9	52.2	53.4	60.3	56.7	45.8	34.3	17
YTIME NOISE LEVELS 07:00	- 23:00 1 H	IOUR SAM	PLES									
Date / Time	LAeq	LAmax					Band Cent	•				
	64.7	81.8	31.5 56.7	63 58.4	12 5 54.8	250 52.4	500 55.0	1.0 k 62.1	2.0 k 58.9	4.0 k 49.4	8.0 k 40.4	16.0 23
07:00 - 08:00 08:00 - 09:00	68.8	81.8	58.1	58.4 60.9	54.8 58.6	52.4 55.3	58.1	65.9	63.4	49.4 54.8	40.4	23
09:00 - 10:00	70.5	83.0	60.5	62.6	58.9	57.1	59.6	67.7	65.0	55.3	45.3	26
10:00 - 11:00	73.1	81.5	64.0	66.2	62.1	59.8	63.0	70.7	67.4	56.8	45.8	28
11:00 - 12:00	73.8	80.4	67.3	68.4	63.3	61.3	64.3	71.4	67.8	56.2	46.2	30
12:00 - 13:00	74.2	100.8	66.8	68.8	64.9	63.0	64.6	71.7	68.1	55.8	45.6	30
13:00 - 14:00	73.4	82.4	70.4	68.9	64.4	62.6	64.5	71.1	66.9	55.4	48.2	34
14:00 - 15:00	73.0	82.4	68.6	68.6	64.6	62.8	64.0	70.8	66.7	55.0	46.0	30
15:00 - 16:00	72.7	83.7	65.2	67.5	63.7	61.5	63.6	70.4	66.3	54.9	44.4	27
16:00 - 17:00	73.7	98.8	66.8	68.3	65.1	62.6	64.0	70.5	68.8	57.4	46.4	29
17:00 - 18:00	71.7	81.9	63.2	66.5	63.1	61.9	62.5	69.4	65.4	53.5	41.5	23
18:00 - 19:00	71.6	93.2	62.0	65.7	64.3	62.6	62.1	69.1	65.4	56.5	42.3	22
19:00 - 20:00	70.0	81.6	61.1	65.1	61.6	58.5	60.6	67.6	63.9	52.0	38.8	20
20:00 - 21:00	69.5	83.0	59.7	63.2	61.1	58.2	60.1	67.2	63.3	51.7	38.8	20
21:00 - 22:00	68.4	81.3	58.2	62.1	60.8	57.5	59.1	66.0	62.3	50.8	38.2	18
22:00 - 23:00	67.6	84.2	57.9	62.3	62.2	58.7	59.2	65.0	61.4	50.0	37.7	2
HT TIME NOISE LEVELS 23:0 Date / Time	00 - 07:00 LAeq	15 M INUTI LA max	E SAM PL 31.5	-ES 63	12 5	Octave E 250	3 and Cent 500	re Freque 1.0 k	ency (Hz) 2.0 k	4.0 k	8.0 k	16.0
HT TIM E NOISE LEVELS 23:0 Date / Time 23:00 - 23:15					12 5 66.4			•		4.0 k 50.0	8.0 k 36.4	
Date / Time	LAeq	LAmax	3 1.5	63		250	500	1.0 k	2.0 k			17
Date / Time 23:00 - 23:15	LA eq 67.4	LA max 82.9	3 1.5 58.5	63 61.8	66.4	250 56.7	500 58.2	1.0 k 64.9	2.0 k 61.5	50.0	36.4	17 17
Date / Time 23:00 - 23:15 23:15 - 23:30	LA eq 67.4 66.9	LA max 82.9 83.5	3 1.5 58.5 55.3	63 61.8 60.2	66.4 68.8	250 56.7 60.6	500 58.2 56.9	1.0 k 64.9 64.3	2.0 k 61.5 60.5	50.0 49.2	36.4 35.7	17 17 16
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45	LA eq 67.4 66.9 64.7	LA max 82.9 83.5 80.7	3 1.5 58.5 55.3 55.4	63 61.8 60.2 60.9	66.4 68.8 57.4	250 56.7 60.6 54.9	500 58.2 56.9 54.7	1.0 k 64.9 64.3 62.3	2.0 k 61.5 60.5 58.7	50.0 49.2 47.5	36.4 35.7 34.3	17 17 16 19
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 67.4 66.9 64.7 64.9 64.9 64.9 62.2	LA max 82.9 83.5 80.7 82.3 80.9 79.6	31.5 58.5 55.3 55.4 56.0	63 61.8 60.2 60.9 60.3	66.4 68.8 57.4 59.9 53.0 52.2	250 56.7 60.6 54.9 54.3	500 58.2 56.9 54.7 55.5	1.0 k 64.9 64.3 62.3 62.5 62.5 62.5 60.0	2.0 k 61.5 60.5 58.7 58.7	50.0 49.2 47.5 47.6 47.5 45.2	36.4 35.7 34.3 36.0 34.4 34.8	17 17 16 19 17
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 67.4 66.9 64.7 64.9 64.9 62.2 62.9	LA max 82.9 83.5 80.7 82.3 80.9 79.6 82.6	31.5 58.5 55.3 55.4 56.0 56.0 56.0 54.5 54.0	63 61.8 60.2 60.9 60.3 57.0 56.9 57.2	66.4 68.8 57.4 59.9 53.0 52.2 57.8	250 56.7 60.6 54.9 54.3 50.6 49.4 54.9	500 58.2 56.9 54.7 55.5 55.0 52.7 54.3	1.0 k 64.9 64.3 62.3 62.5 62.5 60.0 60.3	2.0 k 61.5 60.5 58.7 58.7 59.1 56.0 56.8	50.0 49.2 47.5 47.6 47.5 45.2 46.9	36.4 35.7 34.3 36.0 34.4 34.8 37.4	17 17 16 19 17 18 2
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00	LA eq 67.4 66.9 64.7 64.9 64.9 62.2 62.9 65.2	LA max 82.9 83.5 80.7 82.3 80.9 79.6 82.6 82.6 85.7	31.5 58.5 55.3 55.4 56.0 56.0 54.5 54.0 54.6	63 61.8 60.2 60.9 60.3 57.0 56.9 57.2 55.8	66.4 68.8 57.4 59.9 53.0 52.2 57.8 52.5	2 50 56.7 60.6 54.9 54.3 50.6 49.4 54.9 51.4	500 58.2 56.9 54.7 55.5 55.0 52.7 54.3 55.2	1.0 k 64.9 64.3 62.3 62.5 62.5 60.0 60.3 62.6	2.0 k 61.5 60.5 58.7 58.7 59.1 56.0 56.8 59.5	50.0 49.2 47.5 47.6 47.5 45.2 46.9 49.0	36.4 35.7 34.3 36.0 34.4 34.8 37.4 38.4	17 17 16 19 17 18 21 21
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15	LA eq 67.4 66.9 64.7 64.9 64.9 62.2 62.9 65.2 63.9	LA max 82.9 83.5 80.7 82.3 80.9 79.6 82.6 82.6 85.7 82.6	31.5 58.5 55.3 55.4 56.0 56.0 54.5 54.0 54.6 54.9	63 61.8 60.2 60.9 60.3 57.0 56.9 57.2 55.8 57.3	66.4 68.8 57.4 59.9 53.0 52.2 57.8 52.5 60.0	250 56.7 60.6 54.9 54.3 50.6 49.4 54.9 51.4 56.7	500 58.2 56.9 54.7 55.5 55.0 52.7 54.3 55.2 54.1	1.0 k 64.9 64.3 62.3 62.5 62.5 60.0 60.3 62.6 61.5	2.0 k 61.5 60.5 58.7 59.1 56.0 56.8 59.5 57.6	50.0 49.2 47.5 47.6 47.5 45.2 46.9 49.0 47.0	36.4 35.7 34.3 36.0 34.4 34.8 37.4 38.4 36.1	17 17 16 19 17 18 2' 21 18
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Date / Time 23:00 - 23:15 23:30 - 23:45 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:45 - 01:30 01:5 - 01:30 01:5 - 01:30 01:5 - 01:30 01:5 - 01:30 01:5 - 01:30 02:00 - 02:15 02:00 - 02:15 02:15 - 02:30 02:00 - 02:15 02:15 - 02:30 02:30 - 02:15 02:30 - 02:15 02:30 - 02:15 03:30 - 03:15 03:30 - 03:15 03:30 - 03:15 03:30 - 03:15 03:30 - 03:15 03:315 - 03:30 03:32 - 03:45 04:45 - 04:30 04:30 - 04:15 04:45 - 04:30 04:45 - 05:00 05:30 - 05:15 05:15 - 05:30 05:30 - 05:45 05:45 - 06:00 06:00 - 06:15	LA eq 67.4 66.9 64.7 64.9 64.9 62.2 62.9 65.2 63.9 59.5 56.8 60.6 615 59.1 59.6 54.3 56.7 56.9 58.2 55.3 57.6 59.6 57.6 59.6 57.6 58.0 57.1 61.8 60.2 63.5 64.5	LA max 82.9 83.5 80.7 82.3 80.9 79.6 82.6 85.7 82.6 80.0 76.3 83.8 79.8 80.3 76.8 80.3 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 82.5 76.8 80.7 79.6 80.7 79.6 82.5 76.8 80.7 79.6 80.7 79.6 80.7 79.6 80.7 79.6 80.7 79.6 80.7 79.6 80.8 80.7 79.6 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.7 79.7 80.8 80.2 80.7 79.7 80.8 80.8 82.9	31.5 58.5 55.3 55.4 56.0 54.5 54.0 54.5 54.9 52.9 51.9 53.6 54.6 54.6 54.6 54.5 55.2 52.8 57.6 54.5 55.2 55.2 55.2 55.2 55.2 55.2 55.2	63 618 60.2 60.9 60.3 57.0 57.2 57.2 57.3 52.5 52.5 52.5 52.5 52.5 52.5 52.5 52	66.4 68.8 57.4 59.9 53.0 52.2 57.8 52.5 60.0 49.0 49.2 51.0 49.5 50.1 45.5 50.1 45.5 50.1 45.6 47.5 52.3 50.9 51.4 47.5 51.4 47.5 46.6 46.4 49.1 49.1 49.1 49.1 48.7 51.0 54.1	250 56.7 60.6 54.9 54.3 50.6 49.4 54.4 54.9 45.3 49.5 46.9 47.3 44.8 42.0 46.0 44.3 48.5 47.6 45.5 44.8 51.8	500 58.2 56.9 54.7 55.5 55.0 52.7 54.3 55.2 54.1 48.9 46.5 514 50.5 49.9 50.0 45.2 48.0 46.5 511 46.4 47.3 50.3 48.4 47.4 52.4 53.1 56.2	1.0 k 64.9 64.3 62.3 62.5 62.5 60.0 60.3 62.6 61.5 57.2 54.8 56.7 57.3 52.4 54.5 54.8 56.3 57.7 55.4 55.8 55.3 57.7 55.4 55.6 54.7 55.5 57.8 55.8	2.0 k 615 60.5 58.7 58.7 59.1 56.0 56.8 59.5 57.6 53.3 51.1 54.6 56.2 52.9 53.5 47.1 49.8 50.3 51.0 48.7 51.4 52.6 51.4 52.6 51.4 52.6 51.4 52.7 53.7 54.1 50.8 55.7 54.7 55.7 54.7 55.7 55.7 55.7 55.7	50.0 49.2 47.5 47.6 47.5 45.2 46.9 49.0 47.0 42.3 41.0 42.3 41.0 42.3 41.0 42.3 41.0 42.3 41.0 42.3 41.0 43.6 41.1 40.9 45.0 43.3 47.0 47.5	36.4 35.7 34.3 36.0 34.4 38.4 38.4 36.1 31.1 31.1 31.5 35.1 33.6 29.9 30.6 27.8 32.7 27.3 28.8 30.6 29.6 30.9 29.2 31.8 32.3 33.2 33.2 33.2 35.1 36.6	177 177 177 199 199 177 188 212 212 212 212 212 177 144 144 166 163 133 133 133 133 133 133 133 136 166 16



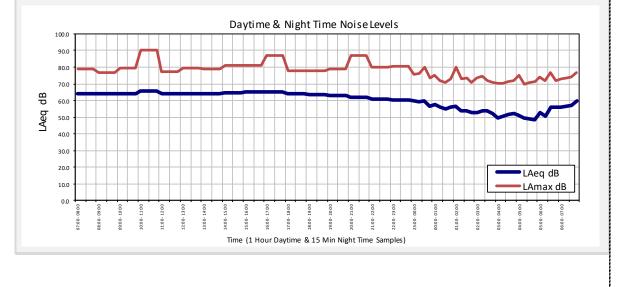
16.5 25 – 26th October 2018 Position 2

SE LEVEL SUMMARY ASSESS	MENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Cor r esponding LAmax 16 HOUR	66.0	104.3	67.5	70.5	66.8	64.6	59.1	60.3	59.1	58.6	48.6	37.
NIGHT TIME 23:00 - 07:00	56.0	88.3	56.9	61.0	60.0	55.9	49.2	50.8	48.8	46.9	32.7	17.4
LAeq 8 HOUR & Cor r esponding LAmax 8 HOUR												
TIME NOISE LEVELS 07:00	- 23:00 11	IOUR SAM	PLES									
Date / Time	LAeq	LAmax						re Freque				
	•		31.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	63.4 65.5	80.2 81.8	64.3 68.2	67.6 71.6	63.7 67.6	61.2 65.4	55.5 58.8	57.3 59.7	56.5 58.9	57.1 56.8	42.7 42.9	24 25
08:00 - 09:00	65.5 64.6	81.8 76.7	68.2 70.6	71.6	67.8	65.0	58.8 57.8	59.7 58.6	58.9	56.0	42.9	25
09:00 - 10:00 10:00 - 11:00	66.6	86.1	69.0	73.2	66.2	65.4	57.8	60.1	57.8	60.7	42.4	43
11:00 - 12:00	71.4	97.2	67.7	70.0	66.9	62.2	62.9	67.1	66.3	61.5	55.2	45
12:00 - 13:00	70.9	104.3	69.8	71.8	68.5	66.2	65.2	63.7	62.5	66.0	57.0	43
13:00 - 14:00	64.0	84.3	68.0	70.6	66.0	64.8	57.8	58.0	56.1	56.4	44.1	32
14:00 - 15:00	64.4	86.2	67.6	70.6	68.2	64.8	57.6	59.2	56.9	55.1	43.2	28
15:00 - 16:00	63.4	80.1	67.9	71.0	66.3	64.2	57.0	58.0	55.6	54.0	40.9	25
16:00 - 17:00	64.3	82.9	68.5	71.5	67.5	65.2	58.0	58.1	56.5	56.5	44.9	30
17:00 - 18:00	67.4	94.6	68.6	72.2	69.1	67.1	58.9	60.3	60.8	60.7	48.0	28
18:00 - 19:00	65.7	88.1	67.3	70.8	68.7	68.0	60.5	59.7	57.1	56.2	42.6	26
19:00 - 20:00	62.9	81.7	65.3	69.2	65.8	64.0	56.2	57.7	55.5	52.7	38.3	23
20:00 - 21:00	60.7	72.5	62.8	66.7	62.0	60.1	53.7	56.0	53.8	50.8	36.3	20
21:00 - 22:00	59.9	77.1	61.0	65.3	62.3	59.9	52.9	54.9	52.9	50.6	36.3	19
22:00 - 23:00	59.9	80.3	60.2	64.2	63.5	60.2	53.4	54.7	52.7	50.0	35.7	20
HT TIM E NOISE LEVELS 23:0 Date / Time	00 - 07:00 LAeq	15 M INUTI LA max			12 5			re Freque 1.0 k		4.0 k	8.0 k	16.0
			E SAMPL 31.5 58.6	63 62.0	12 5 58.0	Octave E 250 56.6	Sand Cent 500 50.9	re Freque 1.0 k 53.7	ency (Hz) 2.0 k 51.6	4.0 k 48.3	8.0 k 33.6	
Date / Time	LAeq	LAmax	3 1.5	63		250	500	1.0 k	2.0 k			17
Date / Time 23:00 - 23:15	LA eq 58.2	LA max 74.4	31.5 58.6	63 62.0	58.0	250 56.6	500 50.9	1.0 k 53.7 53.0 51.4	2.0 k 51.6	48.3 48.6 49.2	33.6 33.7 37.1	17 18
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 58.2 57.9 57.7 53.3	LA max 74.4 74.6 83.6 71.4	31.5 58.6 58.9 55.0 54.7	63 62.0 62.0 62.1 57.9	58.0 62.0 63.8 55.5	2 50 56.6 57.4 58.4 52.9	500 50.9 50.3 50.6 46.0	1.0 k 53.7 53.0 51.4 48.3	2.0 k 51.6 50.8 50.1 46.6	48.3 48.6 49.2 43.8	33.6 33.7 37.1 29.3	17 18 24 16
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15	LA eq 58.2 57.9 57.7 53.3 52.5	LA max 74.4 74.6 83.6 71.4 70.5	3 1.5 58.6 58.9 55.0 54.7 52.3	63 62.0 62.0 62.1 57.9 58.9	58.0 62.0 63.8 55.5 52.2	2 50 56.6 57.4 58.4 52.9 52.8	500 50.9 50.3 50.6 46.0 45.9	1.0 k 53.7 53.0 51.4 48.3 47.9	2.0 k 51.6 50.8 50.1 46.6 44.9	48.3 48.6 49.2 43.8 42.8	33.6 33.7 37.1 29.3 28.8	17 18 24 16 14
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30	LA eq 58.2 57.9 57.7 53.3 52.5 57.8	LA max 74.4 74.6 83.6 714 70.5 80.9	31.5 58.6 58.9 55.0 54.7 52.3 53.9	63 62.0 62.1 57.9 58.9 64.4	58.0 62.0 63.8 55.5 52.2 67.8	2 50 56.6 57.4 58.4 52.9 52.8 60.2	500 50.9 50.3 50.6 46.0 45.9 50.8	1.0 k 53.7 53.0 51.4 48.3 47.9 51.0	2.0 k 51.6 50.8 50.1 46.6 44.9 48.7	48.3 48.6 49.2 43.8 42.8 47.1	33.6 33.7 37.1 29.3 28.8 33.5	17 18 24 16 14 20
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 58.2 57.9 57.7 53.3 52.5 57.8 56.4	LA max 74.4 74.6 83.6 71.4 70.5 80.9 79.0	31.5 58.6 58.9 55.0 54.7 52.3 53.9 52.8	63 62.0 62.1 57.9 58.9 64.4 63.7	58.0 62.0 63.8 55.5 52.2 67.8 67.5	2 50 56.6 57.4 58.4 52.9 52.8 60.2 58.8	500 50.9 50.3 50.6 46.0 45.9 50.8 50.2	1.0 k 53.7 53.0 51.4 48.3 47.9 51.0 49.4	2.0 k 51.6 50.8 50.1 46.6 44.9 48.7 47.1	48.3 48.6 49.2 43.8 42.8 47.1 44.1	33.6 33.7 37.1 29.3 28.8 33.5 29.6	17 18 24 16 14 20 15
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Date / Time 23:00 - 23:15 23:30 - 23:45 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:30 - 00:45 00:45 - 01:00 01:45 - 01:30 01:45 - 01:30 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 03:00 - 03:15 03:15 - 03:30 03:30 - 03:15 03:45 - 04:00 04:00 - 04:15 04:15 - 04:45 04:15 - 04:30 04:15 - 04:45 05:00 - 05:15 05:15 - 05:30 05:45 - 05:30 05:45 - 05:00 05:30 - 05:45 05:45 - 06:00 06:00 - 06:15	LA eq 58.2 57.9 57.7 53.3 52.5 57.8 56.4 52.7 49.9 50.4 47.6 46.4 47.4 51.0 48.8 51.0 46.4 47.4 51.0 48.8 51.0 53.1 54.9 46.6 50.9 49.8 49.5 52.5 52.5 52.6 54.5 55.5 58.7 59.9	LA max 74.4 74.6 83.6 71.4 70.5 80.9 79.0 71.5 68.7 73.0 69.2 69.2 71.1 72.9 68.5 71.6 79.4 75.7 68.8 72.3 75.2 70.9 73.9 73.0 73.0 73.3 75.2 70.9 73.0 73.3 75.2 75.1 75.2	31.5 58.6 58.9 55.0 54.7 52.3 53.9 52.8 53.1 50.3 51.3 46.7 48.6 46.9 54.4 48.4 51.5 47.8 46.7 52.3 51.3 46.7 48.6 9 54.4 48.4 51.5 51.5 52.8 53.1 50.3 51.3 46.7 48.6 9 54.4 48.4 51.5 51.5 52.8 53.9 52.8 53.9 52.8 53.9 52.8 53.1 50.3 51.3 46.7 48.6 51.5 52.8 53.9 52.8 53.1 50.3 51.3 46.7 48.6 55.5 52.8 53.1 51.3 51.3 51.3 51.5 52.8 53.1 52.8 53.1 51.3 51.3 51.5 52.8 53.1 53.2 53.2 53.1 54.4 48.4 51.5 52.1 50.9 52.7 55.0 55.2 52.1 50.9 52.7 55.0 52.7 55.0 55.2	63 62.0 62.1 57.9 64.4 63.7 58.9 64.4 63.7 58.5 53.3 52.3 49.5 52.4 52.0 55.6 52.2 52.7 55.4 52.2 49.7 58.4 52.2 49.7 58.4 52.2 49.7 58.6 55.8 55.8 55.8 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.6 55.8 55.3 61.0 59.6 55.8 55.3 61.0 55.6 55.4 55.3 55.4 55.3 55.4 55.4 55.4 55.4	58.0 62.0 63.8 55.5 52.2 67.8 67.5 56.5 48.6 48.2 45.6 50.3 48.1 52.3 63.4 63.3 46.6 52.8 51.5 49.3 53.3 54.4 54.7 54.4 54.7 54.4 59.0 59.9	2 50 56.6 57.4 58.4 52.9 52.8 60.2 58.8 51.7 48.4 48.3 48.3 48.3 48.3 48.3 48.3 51.6 56.3 59.9 46.1 52.2 49.6 48.1 50.9 46.1 52.2 49.6 48.1 50.9 54.0 54.3 56.6 59.0	500 50.9 50.3 50.6 46.0 45.9 50.2 45.0 43.2 43.2 43.2 39.7 43.8 39.7 43.8 41.7 45.0 43.9 49.8 39.7 45.0 43.9 45.8 39.7 45.0 45.1 45.6 48.7 48.3 50.5 52.0 53.5	1.0 k 53.7 53.0 514 48.3 47.9 510 48.1 49.4 47.9 45.1 46.1 43.5 44.8 418 42.6 46.2 44.3 46.0 45.2 44.8 416 43.5 44.0 45.3 47.8 48.1 49.6 50.6 52.3 55.0	2.0 k 516 50.8 50.1 46.6 44.9 48.7 47.1 45.7 43.1 43.8 410 39.2 412 44.7 419 43.5 42.8 418 39.6 42.6 418 42.6 418 42.6 418 42.6 418 42.6 418 45.7 45.8 45.8 45.4 45.5 45.4 45.5 45.5 45.5 45.6 45.	48.3 48.6 49.2 43.8 42.8 47.1 44.1 43.3 40.7 40.6 37.6 37.7 38.5 418 39.0 418 40.8 39.1 38.0 418 40.8 39.1 38.0 416 39.9 42.7 43.1 45.5 46.7 52.7 49.8	33.6 33.7 37.1 29.3 28.8 33.5 29.6 26.6 26.2 23.4 24.4 23.9 27.8 24.9 24.9 24.9 24.9 24.9 24.9 24.9 24.9	177.18 244.12 200.15 15.14 14.14 13.13 13.13 13.13 13.13 13.13 13.13 13.13 13.12 14.14 15.15 13.13 14.4 17.77 7.77 7.77 7.77 7.77 7.77 7.7



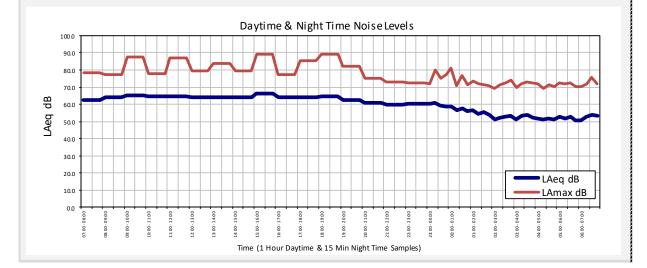
16.6 26 – 27th October 2018 Position 2

ISE LEVEL SUMMARY ASSESSN	IENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Corresponding LAmax 16 HOUR	63.9	90.2	67.4	70.7	66.5	64.5	57.5	58.2	56.4	55.4	42.3	27.
NIGHTTIME 23:00 - 07:00 LAeq 8 HOUR & Cor r esponding LAmax 8 HOUR	55.4	80.1	56.4	60.8	58.6	55.1	48.6	50.4	48.6	45.9	31.1	16
YTIME NOISE LEVELS 07:00 -	- 23:00 1 H	IOUR SAM	PLES									
Date / Time	LAeq	LAmax					and Cent					
07:00 - 08:00	63.9	79.1	31.5 66.2	63 70.3	12 5 67.2	250 64.8	500 57.3	1.0 k 58.2	2.0 k 56.4	4.0 k 55.1	8.0 k 41.7	16 .
08:00 - 09:00	64.2	79.1	67.9	70.3	66.8	64.7	57.7	58.6	56.9	55.5	42.0	24
09:00 - 10:00	64.3	79.5	67.8	70.7	66.4	64.4	57.7	59.0	57.0	55.6	42.1	27
10:00 - 11:00	65.8	90.2	68.2	71.2	65.8	64.0	57.5	59.4	58.6	59.7	47.0	30
11:00 - 12:00	64.0	77.2	68.8	71.0	65.8	63.6	57.4	58.3	56.9	56.3	43.2	30
12:00 - 13:00	63.9	79.6	68.1	71.1	65.9	64.0	57.5	58.4	56.3	55.6	43.0	28
13:00 - 14:00	63.9	78.7	67.9	71.0	66.3	64.4	57.9	58.5	56.0	55.1	43.3	28
14:00 - 15:00	64.5	81.1	69.3	71.4	67.4	65.1	57.9	58.2	56.2	57.4	45.1	33
15:00 - 16:00	65.1	81.0	68.1	72.2	68.3	65.3	58.9	59.3	57.7	56.5	42.9	27
16:00 - 17:00	65.0	86.9	69.4	72.5	69.1	67.9	59.7	58.6	56.6	55.3	43.0	28
17:00 - 18:00	64.3	77.6	68.1	71.6	67.0	64.7	58.1	59.0	57.1	54.8	40.8	25
18:00 - 19:00	63.8	78.1	67.2	70.9	66.7	64.4	57.8	58.4	56.5	54.1	39.9	25
19:00 - 20:00	62.9	79.1	65.5	69.5	65.7	63.8	57.0	57.6	55.6	52.8	38.2	24
20:00 - 21:00	62.0	86.8	63.5	67.2	65.0	63.1	56.7	56.5	54.7	52.2	37.7	23
21:00 - 22:00	60.7	79.7 80.4	61.6	65.8 66.0	64.3 62.3	61.0	55.0	55.3 55.1	53.6	50.8 50.6	36.0 35.8	20
22:00 - 23:00	60.4	00.4	60.4	00.0	02.0	61.7	53.5	55.1	53.5	30.0	55.0	20
HT TIME NOISE LEVELS 23:0			SAMPL	ES				_				
Date / Time	LAeq	LAmax	31.5	63	12 5	Octave E 250	and Cent 500	re Freque 1.0 k	ency (Hz) 2.0 k	4.0 k	8.0 k	16.
23:00 - 23:15	59.7	75.7	60.3	67.5	65.7	58.5	52.8	54.7	52.8	49.7	34.8	18
23:15 - 23:30	59.0	76.3	61.0	65.0	59.7	58.5	52.0	54.2	52.4	49.4	33.8	17
23:30 - 23:45	60.0	80.1	57.3	64.9	65.6	63.4	54.4	53.6	51.6	48.6	33.7	18
23:45 - 00:00	56.8	73.6	57.9	61.6	56.6	55.9	50.3	52.1	50.1	47.3	32.6	16
00:00 - 00:15	57.4	75.3	58.7	61.4	56.3	55.8	50.3	52.7	51.0	47.9	32.8	17
00:15 - 00:30	56.0	71.8	57.1	61.1	57.3	54.8	49.7	51.4	48.9	46.3	31.6	18
00:30 - 00:45	55.1	70.7	55.3	59.7	55.1	54.3	48.2	50.5	48.4	45.6	30.7	16
00:45 - 01:00	56.0	73.0	57.3	62.1	54.8	53.9	48.9	51.6	49.5	46.1	30.9	15
01:00 - 01:15	56.4	80.1	53.1	61.3	67.7	60.2	47.7	47.9	46.0	45.4	31.8	17
01:15 - 01:30	53.8	73.1	53.0	58.4	52.3	52.0	46.5	49.5	47.3	43.8	28.6	14
01:30 - 01:45	54.1 52.8	73.7 70.7	53.8 51.7	60.2 57.8	57.5 53.3	54.3 51.4	47.6 45.8	49.0 48.2	47.0 46.1	43.9 43.0	29.0 28.0	14 14
01:45 - 02:00			51.7	57.0	55.5	51.4		40.2	46.1		28.0	
			52.5	57.1	514	50.0	110		40.9	43.8		13
02:00 - 02:15	52.8	73.5	52.5 55.2	57.1 60.3	51.4 55.0	50.9 517	44.9 46.5		475	44 3	20.3	
02:00 - 02:15 02:15 - 02:30	52.8 53.9	73.5 74.7	55.2	60.3	51.4 55.0	50.9 51.7 52.0	46.5	47.8 49.2 49.0	47.5 47.3	44.3 44.1	29.3 29.2	
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45	52.8	73.5 74.7 72.1			55.0 52.1	51.7 52.0		49.2 49.0	47.5 47.3 45.8		29.2	1
02:00 - 02:15 02:15 - 02:30	52.8 53.9 53.7	73.5 74.7	55.2 55.5	60.3 58.5	55.0	51.7	46.5 46.5	49.2	47.3	44.1		1: 13
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00	52.8 53.9 53.7 52.3	73.5 74.7 72.1 71.0	55.2 55.5 51.0	60.3 58.5 55.7	55.0 52.1 51.1	51.7 52.0 50.2	46.5 46.5 45.4	49.2 49.0 48.0	47.3 45.8	44.1 42.2	29.2 27.2	15 13 13
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15	52.8 53.9 53.7 52.3 49.3	73.5 74.7 72.1 71.0 70.2	55.2 55.5 51.0 50.6	60.3 58.5 55.7 55.0	55.0 52.1 51.1 47.9	51.7 52.0 50.2 47.7	46.5 46.5 45.4 42.4	49.2 49.0 48.0 44.8	47.3 45.8 42.7	44.1 42.2 39.6	29.2 27.2 24.9	1: 13 13 14
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30	52.8 53.9 53.7 52.3 49.3 50.5	73.5 74.7 72.1 71.0 70.2 70.5	55.2 55.5 51.0 50.6 52.4	60.3 58.5 55.7 55.0 54.0	55.0 52.1 51.1 47.9 48.3	51.7 52.0 50.2 47.7 48.1	46.5 46.5 45.4 42.4 43.2	49.2 49.0 48.0 44.8 46.0	47.3 45.8 42.7 44.2	44.1 42.2 39.6 41.3	29.2 27.2 24.9 26.4	1: 13 13 14 14
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30 03:30 - 03:45	52.8 53.9 53.7 52.3 49.3 50.5 51.9	73.5 74.7 72.1 71.0 70.2 70.5 71.6	55.2 55.5 51.0 50.6 52.4 54.6	60.3 58.5 55.7 55.0 54.0 58.7	55.0 52.1 51.1 47.9 48.3 53.6	51.7 52.0 50.2 47.7 48.1 51.6	46.5 46.5 45.4 42.4 43.2 46.5	49.2 49.0 48.0 44.8 46.0 46.7	47.3 45.8 42.7 44.2 44.7	44.1 42.2 39.6 41.3 42.6	29.2 27.2 24.9 26.4 27.6	11 13 13 14 14 15
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30 03:30 - 03:45 03:45 - 04:00 04:00 - 04:15 04:15 - 04:30	52.8 53.9 53.7 52.3 49.3 50.5 51.9 52.0 51.2 49.7	73.5 74.7 72.1 71.0 70.2 70.5 71.6 72.1 75.3 70.0	55.2 55.5 51.0 50.6 52.4 54.6 54.7 54.5 50.1	60.3 58.5 55.7 55.0 54.0 58.7 55.9 57.2 54.2	55.0 52.1 51.1 47.9 48.3 53.6 50.8 50.9 49.1	51.7 52.0 50.2 47.7 48.1 51.6 49.7 48.9 48.1	46.5 46.5 45.4 42.4 43.2 46.5 45.5 46.0 42.7	49.2 49.0 48.0 44.8 46.0 46.7 47.4 46.0 44.6	47.3 45.8 42.7 44.2 44.7 45.1 44.1 43.2	44.1 42.2 39.6 41.3 42.6 43.4 42.3 41.4	29.2 27.2 24.9 26.4 27.6 28.8 27.6 27.6 27.4	15 13 14 14 14 15 14 15
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30 03:30 - 03:45 03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45	52.8 53.9 53.7 52.3 49.3 50.5 51.9 52.0 51.2 49.7 49.0	73.5 74.7 72.1 71.0 70.2 70.5 71.6 72.1 75.3 70.0 70.6	55.2 55.5 51.0 50.6 52.4 54.6 54.7 54.5 50.1 48.9	60.3 58.5 55.7 55.0 54.0 58.7 55.9 57.2 54.2 54.2 51.9	55.0 52.1 51.1 47.9 48.3 53.6 50.8 50.9 49.1 46.3	51.7 52.0 50.2 47.7 48.1 51.6 49.7 48.9 48.1 47.3	46.5 46.5 45.4 42.4 43.2 46.5 45.5 46.0 42.7 42.7	49.2 49.0 48.0 44.8 46.0 46.7 47.4 46.0 44.6 43.7	47.3 45.8 42.7 44.2 44.7 45.1 44.1 43.2 42.3	44.1 42.2 39.6 41.3 42.6 43.4 42.3 41.4 40.9	29.2 27.2 24.9 26.4 27.6 28.8 27.6 27.4 27.0	15 13 13 14 14 15 14 15 14 16 16
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02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30 03:30 - 03:45 03:45 - 04:00 04:00 - 04:15 04:15 - 04:30 04:30 - 04:45 04:45 - 05:00 05:00 - 05:15 05:15 - 05:30 05:30 - 05:45 05:45 - 06:00	52.8 53.7 52.3 49.3 50.5 51.9 52.0 51.2 49.7 49.0 48.4 52.8 50.8 55.8	73.5 74.7 72.1 71.0 70.2 70.5 71.6 72.1 75.3 70.0 70.6 71.4 73.8 71.9 76.9 71.7	55.2 55.5 51.0 50.6 52.4 54.6 54.7 54.5 50.1 48.9 51.6 54.2 48.7 58.5 55.6	60.3 58.5 55.7 55.0 54.0 58.7 55.9 57.2 54.2 51.9 55.9 55.4 52.3 59.7 61.3	55.0 52.1 51.1 47.9 48.3 53.6 50.8 50.9 49.1 46.3 46.9 51.4 49.1 56.1 55.3	51.7 52.0 50.2 47.7 48.1 51.6 49.7 48.9 48.1 47.3 46.5 50.5 48.0 54.4 53.3	46.5 46.5 45.4 42.4 43.2 46.5 46.5 46.0 42.7 42.7 42.7 42.4 45.9 43.3 49.4 48.1	49.2 49.0 48.0 44.8 46.0 46.7 47.4 46.0 44.6 43.7 43.4 48.2 46.2 50.4 50.9	47.3 45.8 42.7 44.2 44.7 45.1 44.1 43.2 42.3 41.5 46.4 44.7 49.2 49.9	44.1 42.2 39.6 41.3 42.6 43.4 42.3 41.4 40.9 39.7 43.6 41.6 47.4 46.5	29.2 27.2 24.9 26.4 27.6 28.8 27.6 27.4 27.0 25.9 28.5 26.4 32.3 312	15 13 13 14 14 15 14 16 16 16 16 16
02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15 03:15 - 03:30 03:30 - 03:45 03:45 - 04:00 04:00 - 04:15 04:15 - 04:00 04:30 - 04:15 04:45 - 05:00 05:00 - 05:15 05:15 - 05:45 05:45 - 06:00 06:00 - 06:15	52.8 53.9 53.7 52.3 49.3 50.5 51.9 52.0 51.2 49.7 49.0 48.4 52.8 50.8 55.8 55.8 55.8 56.2	73.5 74.7 72.1 70.0 70.2 70.5 716 72.1 75.3 70.0 70.6 714 73.8 71.9 76.9 71.7 72.8	55.2 55.5 510 50.6 52.4 54.6 54.7 54.5 50.1 48.9 51.6 54.2 48.7 58.5 55.6 55.4	60.3 58.5 55.7 55.0 54.0 58.7 55.9 57.2 54.9 55.9 55.9 55.4 52.3 59.7 61.3 59.6	55.0 52.1 51.1 47.9 48.3 53.6 50.8 50.9 49.1 46.3 46.9 51.4 49.1 56.1 55.3 54.4	51.7 52.0 50.2 47.7 48.1 51.6 49.7 48.9 48.1 47.3 46.5 50.5 48.0 54.4 53.3 54.7	46.5 46.5 45.4 42.4 43.2 46.5 45.5 46.0 42.7 42.7 42.4 45.9 43.3 49.4 48.1 49.3	49.2 49.0 48.0 44.8 46.0 46.7 47.4 46.0 44.6 43.7 43.4 48.2 46.2 50.9 51.4	47.3 45.8 42.7 44.2 44.7 45.1 44.1 43.2 42.3 41.5 46.4 44.7 49.2 49.9 49.9	44.1 42.2 39.6 41.3 42.6 43.4 42.3 41.4 40.9 39.7 43.6 41.6 41.6 47.4 46.5 46.7	29.2 27.2 24.9 26.4 27.6 28.8 27.6 27.4 27.0 25.9 28.5 26.4 32.3 31.2 31.5	15 13 14 14 14 15 14 16 16 16 16 16
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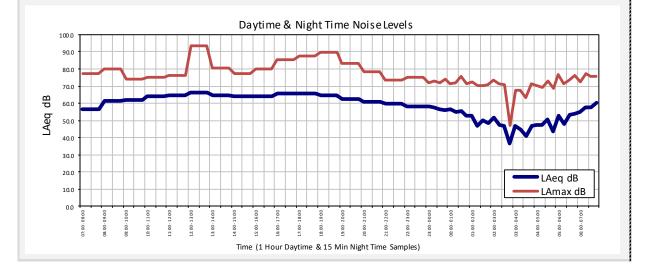
16.7 27 – 28th October 2018 Position 2

	/IENT					Octave I	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Cor r esponding LAmax 16 HOUR	63.8	89.3	66.0	69.7	66.7	64.7	58.2	58.2	56.4	54.1	40.4	25.
NIGHTTIME 23:00 - 07:00 LAeg 8 HOUR & Corresponding LAmax 8 HOUR	55.3	81.2	56.3	59.8	57.1	54.2	48.0	50.0	48.5	47.1	32.9	19.
	22.00 4 1		DIEC									
TIME NOISE LEVELS 07:00			PLES			Octave E	and Cent	re Freque	encv (Hz)			
Date / Time	LAeq	LAmax	31.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	62.3	78.3	63.4	66.5	63.6	61.2	55.3	56.8	55.4	54.6	40.3	22.
08:00 - 09:00	63.9	77.0	65.0	68.8	65.9	62.6	57.0	58.7	57.3	54.9	42.3	23.
09:00 - 10:00	65.3	87.4	66.3	70.3	68.5	65.6	59.6	59.9	58.2	55.4	41.1	26
10:00 - 11:00	64.6	77.9	67.0	70.4	66.0	64.5	58.1	59.4	57.6	55.1	40.6	24
11:00 - 12:00	64.7	87.0	67.8	71.7	69.3	66.6	59.6	58.8	56.8	54.2	41.7	25
12:00 - 13:00	64.0	79.4	68.3	71.7	69.5	65.8	58.0	58.2	56.0	54.2	41.5	25
13:00 - 14:00	64.2	84.0	67.7	70.8	68.3	66.2	58.2	58.3	56.2	54.5	41.5	25
14:00 - 15:00	63.9	79.5	67.6	70.5	66.6	64.7	58.1	58.6	56.3	54.2	41.1	28
15:00 - 16:00	66.3	89.3	66.8	71.3	69.9	68.7	62.3	59.9	57.7	56.3	42.5	27
16:00 - 17:00	64.0	77.4	66.3	70.1	65.7	64.5	57.8	59.0	57.2	53.8	39.2	22
17:00 - 18:00	64.2	85.5	67.0	70.9	66.1	63.8	57.4	58.7	57.1	55.8	42.6	29
18:00 - 19:00	64.5	89.1	66.0	69.4	66.7	66.1	61.2	58.3	56.5	53.4	38.7	23
19:00 - 20:00	62.6	82.0	64.2	68.8	63.6	63.8	56.2	57.2	55.7	52.3	37.5	23
20:00 - 21:00	60.6	75.1	62.3	66.4	62.5	60.5	53.8	55.5	53.9	50.8	36.0	21
21:00 - 22:00	59.6	73.1	60.9	65.3	61.3	58.7	52.7	54.7	53.0	49.8	34.7	19
22:00 - 23:00	60.1	72.4	61.0	65.4	60.7	59.1	53.2	55.3	53.6	50.3	35.1	18
HT TIM E NOISE LEVELS 23:0 Date / Time	0 - 07:00 LAeq	15 M INUTI LA max			12 5		and Cent	-		4.0 k	8.0 k	16.0
HT TIME NOISE LEVELS 23:0 Date / Time 23:00 - 23:15			E SAM PL 31.5 61.3	63 65.7	12 5 60.8	Octave E 250 59.4	Sand Cent 500 53.3	re Freque 1.0 k 55.4	ency (Hz) 2.0 k 53.7	4.0 k 50.6	8.0 k 35.5	
Date / Time	LAeq	LAmax	31.5	63		250	500	1.0 k	2.0 k			18
Date / Time 23:00 - 23:15	LA eq 60.3	LA max 72.1	31.5 61.3	63 65.7	60.8	250 59.4	500 53.3	1.0 k 55.4	2.0 k 53.7	50.6	35.5	18 20
Date / Time 23:00 - 23:15 23:15 - 23:30	LA eq 60.3 60.9	LA max 72.1 80.2	3 1.5 61.3 64.1	63 65.7 64.0	60.8 60.6	250 59.4 59.5	500 53.3 53.6	1.0 k 55.4 54.3	2.0 k 53.7 53.9	50.6 54.5	35.5 39.1	18 20 17
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45	LA eq 60.3 60.9 59.0	LA max 72.1 80.2 75.3	31.5 61.3 64.1 58.7	63 65.7 64.0 64.0	60.8 60.6 62.0	250 59.4 59.5 58.3	500 53.3 53.6 51.9	1.0 k 55.4 54.3 54.1	2.0 k 53.7 53.9 52.3	50.6 54.5 49.3	35.5 39.1 34.5	18 20 17 17
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 60.3 60.9 59.0 58.6	LA max 72.1 80.2 75.3 77.3 81.2 70.6	31.5 61.3 64.1 58.7 59.0	63 65.7 64.0 64.0 64.3	60.8 60.6 62.0 63.8	250 59.4 59.5 58.3 58.6	500 53.3 53.6 51.9 51.1	1.0 k 55.4 54.3 54.1 53.5 52.9 51.4	2.0 k 53.7 53.9 52.3 51.7	50.6 54.5 49.3 48.5	35.5 39.1 34.5 33.4 34.5 33.7	18 20 17 17 21
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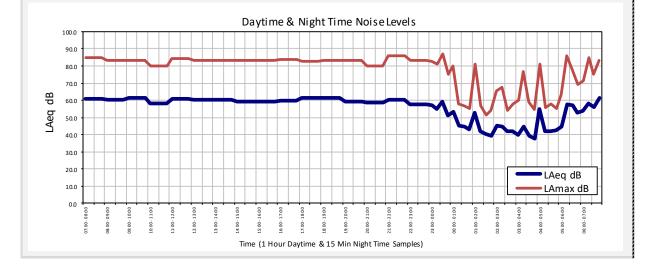
16.8 28 – 29th October 2018 Position 2

SE LEVEL SUMMARY ASSESS	MENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Corresponding LAmax 16 HOUR	63.6	93.7	64.4	68.2	65.8	63.8	56.4	57.8	57.1	54.9	41.7	26.
NIGHTTIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmax 8 HOUR	53.9	77.3	55.3	58.7	55.5	52.8	46.9	48.8	47.4	44.9	30.4	16.
TIME NOISE LEVELS 07:00	- 23.00 1 -	IOUR SAM	DIES									
			FLES			Octave E	and Cent	re Freque	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	56.7	77.1	55.8	61.0	56.5	54.0	48.1	50.3	50.1	50.5	4 1.1	22
08:00 - 09:00	61.2	80.1	60.0	63.6	59.1	57.6	52.4	54.8	54.6	55.4	44.3	25
09:00 - 10:00	62.1	74.3	61.8	65.2	60.4	59.7	54.0	56.5	56.0	54.7	40.6	24
10:00 - 11:00	64.3	75.0	64.6	68.8	64.8	62.6	56.5	58.8	58.0	56.2	42.2	27
11:00 - 12:00	64.5	76.3	66.4	69.8	65.0	63.7	57.5	59.2	57.9	55.5	42.0	28
12:00 - 13:00	66.1	93.7	66.6	70.0	66.5	64.4	57.6	59.3	61.8	56.3	43.2	28
13:00 - 14:00	64.6	80.3	67.5	70.6	68.1	65.7	58.1	58.9	57.3	55.5	42.7	32
14:00 - 15:00	64.3	77.5	66.1	69.7	66.0	64.0	57.7	59.1	57.4	54.9	43.6	29
15:00 - 16:00	64.3	80.1	65.5	70.1	68.4	65.2	58.1	58.8	57.0	54.5	41.1	27
16:00 - 17:00	65.5	85.4	65.8	70.0	71.0	68.1	58.9	59.0	57.8	55.3	42.5	30
17:00 - 18:00	66.0	87.7	65.6	69.7	68.7	68.2	59.4	59.4	57.9	58.0	43.7	25
18:00 - 19:00	64.7	89.8	64.2	67.8	64.2	63.1	56.1	59.0	58.9	56.4	41.9	24
19:00 - 20:00	62.4	83.1	63.0	68.0	65.3	63.1	56.0	56.8	55.5	52.4	37.4	22
20:00 - 21:00	61.0	78.3	63.0	65.8	62.2	60.1	54.1	55.8	54.4	52.1	37.0	19.
21:00 - 22:00	59.7	73.6	60.5	64.6	60.3	58.8	52.5	54.8	53.4	50.1	35.0	18
22:00 - 23:00	58.4	75.4	58.0	62.4	59.0	57.2	51.0	53.1	52.1	49.9	35.0	19
T TIME NOISE LEVELS 23:(Date / Time	00 - 07:00 LAeq	15 M INUTI LA max			12.5			re Freque		10 k	8 0 k	16 (
			E SAM PL 31.5 59.5	.ES 63 62.9	12 5 59.4	Octave E 250 57.8	and Cent 500 50.8	re Freque 1.0 k 53.0	ency (Hz) 2.0 k 51.7	4.0 k 48.2	8.0 k 32.9	
Date / Time	LAeq	LAmax	3 1.5	63	59.4 64.1	250	500	1.0 k	2.0 k 51.7 51.1			17.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45	LA eq 58.1 57.7 56.4	LA max 71.9 73.1 72.1	3 1.5 59.5 56.5 56.1	63 62.9 64.2 59.9	59.4 64.1 58.1	2 50 57.8 56.7 55.8	500 50.8 49.7 49.2	1.0 k 53.0 52.6 51.4	2.0 k 51.7 51.1 49.9	48.2 47.3 46.6	32.9 32.0 31.4	17. 18 19.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 58.1 57.7 56.4 56.2	LA max 71.9 73.1 72.1 74.3	31.5 59.5 56.5 56.1 56.2	63 62.9 64.2 59.9 60.8	59.4 64.1 58.1 55.9	250 57.8 56.7 55.8 54.9	500 50.8 49.7 49.2 49.0	1.0 k 53.0 52.6 51.4 51.3	2.0 k 51.7 51.1 49.9 49.8	48.2 47.3 46.6 47.2	32.9 32.0 31.4 33.1	17. 18 19. 17.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15	LA eq 58.1 57.7 56.4 56.2 56.3	LA max 71.9 73.1 72.1 74.3 71.5	3 1.5 59.5 56.5 56.1 56.2 55.6	63 62.9 64.2 59.9 60.8 61.0	59.4 64.1 58.1 55.9 55.6	2 50 57.8 56.7 55.8 54.9 54.8	500 50.8 49.7 49.2 49.0 49.2	1.0 k 53.0 52.6 51.4 51.3 51.6	2.0 k 51.7 51.1 49.9 49.8 50.0	48.2 47.3 46.6 47.2 46.8	32.9 32.0 31.4 33.1 31.8	17. 18 19. 17. 16.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30	LA eq 58.1 57.7 56.4 56.2 56.3 55.0	LA max 71.9 73.1 72.1 74.3 71.5 71.9	31.5 59.5 56.5 56.1 56.2 55.6 55.6 56.8	63 62.9 64.2 59.9 60.8 61.0 61.0	59.4 64.1 58.1 55.9 55.6 54.8	250 57.8 56.7 55.8 54.9 54.8 54.8 54.4	500 50.8 49.7 49.2 49.0 49.2 48.1	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3	48.2 47.3 46.6 47.2 46.8 45.8	32.9 32.0 31.4 33.1 31.8 31.0	17 18 19 17 16 16
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 58.1 57.7 56.4 56.2 56.3 55.0 55.3	LA max 71.9 73.1 72.1 74.3 71.5 71.9 75.6	31.5 59.5 56.5 56.1 56.2 55.6 56.8 56.8 53.7	63 62.9 64.2 59.9 60.8 61.0 61.0 61.8	59.4 64.1 58.1 55.9 55.6 54.8 60.6	2 50 57.8 56.7 55.8 54.9 54.8 54.4 55.3	500 50.8 49.7 49.2 49.0 49.2 48.1 48.4	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0 49.6	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3 48.1	48.2 47.3 46.6 47.2 46.8 45.8 45.8 46.0	32.9 32.0 31.4 33.1 31.8 31.0 31.5	17 18 19 17 16 16
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00	LA eq 58.1 57.7 56.4 56.2 56.3 55.0 55.3 55.3 52.9	LA max 71.9 73.1 72.1 74.3 71.5 71.9 75.6 71.5	31.5 59.5 56.5 56.1 56.2 55.6 56.8 53.7 53.3	63 62.9 64.2 59.9 60.8 61.0 61.0 61.8 55.9	59.4 64.1 58.1 55.9 55.6 54.8 60.6 53.2	2 50 57.8 56.7 55.8 54.9 54.8 54.4 55.3 51.5	500 50.8 49.7 49.2 49.0 49.2 48.1 48.4 46.1	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0 49.6 47.9	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3 48.1 46.2	48.2 47.3 46.6 47.2 46.8 45.8 46.0 44.1	32.9 32.0 31.4 33.1 31.8 31.0 31.5 29.9	17. 18 19. 17. 16. 16. 17. 15.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15	LA eq 58.1 57.7 56.4 56.2 56.3 55.0 55.3 55.3 52.9 53.0	LA max 71.9 73.1 72.1 74.3 71.5 71.9 75.6 71.9 75.6 71.5 71.5 72.3	31.5 59.5 56.5 56.1 56.2 55.6 56.8 53.7 53.3 53.0	63 62.9 64.2 59.9 60.8 61.0 61.0 61.8 55.9 57.2	59.4 64.1 58.1 55.9 55.6 54.8 60.6 53.2 54.0	2 50 57.8 56.7 55.8 54.9 54.8 54.4 55.3 51.5 51.2	500 50.8 49.7 49.2 49.0 49.2 48.1 48.4 46.1 45.6	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0 49.6 47.9 48.2	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3 48.1 46.2 46.7	48.2 47.3 46.6 47.2 46.8 45.8 46.0 44.1 43.7	32.9 32.0 31.4 33.1 31.8 31.0 31.5 29.9 28.8	17. 18 19. 17. 16. 16. 17. 15. 14.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30	LA eq 58.1 57.7 56.4 56.2 56.3 55.0 55.3 55.3 52.9 53.0 46.8	LA max 71.9 73.1 72.1 74.3 71.5 71.9 75.6 71.9 75.6 71.5 72.3 70.1	31.5 59.5 56.5 56.1 56.2 55.6 56.8 53.7 53.3 53.0 49.8	63 62.9 64.2 59.9 60.8 61.0 61.0 61.8 55.9 57.2 52.5	59.4 64.1 58.1 55.9 55.6 54.8 60.6 53.2 54.0 46.3	2 50 57.8 56.7 55.8 54.9 54.8 54.4 55.3 51.5 51.2 44.4	500 50.8 49.7 49.2 49.0 49.2 48.1 48.4 46.1 45.6 39.2	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0 49.6 47.9 48.2 42.0	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3 48.1 46.2 46.7 40.5	48.2 47.3 46.6 47.2 46.8 45.8 46.0 44.1 43.7 38.2	32.9 32.0 31.4 33.1 31.8 31.0 31.5 29.9 28.8 24.2	17. 18 19. 17. 16. 16. 17. 15. 14.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45	LA eq 58.1 57.7 56.4 56.2 56.3 55.0 55.3 52.9 53.0 46.8 50.3	LA max 71.9 73.1 74.3 71.5 71.9 75.6 71.5 72.3 70.1 70.5	31.5 59.5 56.5 56.1 56.2 55.6 56.8 53.7 53.3 53.0 49.8 49.1	63 62.9 64.2 59.9 60.8 61.0 61.0 61.8 55.9 57.2 52.5 54.2	59.4 64.1 58.1 55.9 55.6 54.8 60.6 53.2 54.0 46.3 49.6	2 50 57.8 56.7 55.8 54.9 54.8 54.4 55.3 51.5 51.2 44.4 48.0	500 50.8 49.7 49.2 49.0 49.2 48.1 48.4 46.1 45.6 39.2 43.0	1.0 k 53.0 52.6 51.4 51.3 51.6 50.0 49.6 47.9 48.2 42.0 45.5	2.0 k 51.7 51.1 49.9 49.8 50.0 48.3 48.1 46.2 46.7 40.5 44.0	48.2 47.3 46.6 47.2 46.8 45.8 46.0 44.1 43.7 38.2 41.2	32.9 32.0 31.4 33.1 31.8 31.0 31.5 29.9 28.8 24.2 26.4	17. 18 19. 17. 16. 16. 17. 15. 14. 14. 14.
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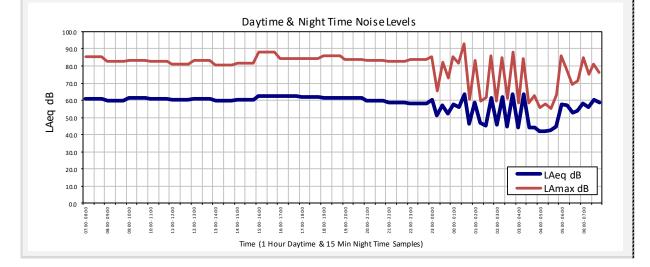
16.9 25 – 26th October 2018 Position 3

SE LEVEL SUMMARY ASSESS	MENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Cor r esponding LAmax 16 HOUR	60.1	85.8	62.1	61.6	57.5	55.7	55.5	56.9	52.6	45.5	39.9	33.0
NIGHT TIME 23:00 - 07:00	53.2	87.2	55.6	54.5	50.6	48.7	48.9	50.2	45.2	38.6	34.2	24.3
LAeq 8 HOUR & Cor r esponding LAmax 8 HOUR	55.2	07.2	55.0	54.5	50.0	40.7	40.5	50.2	43.2	50.0	54.2	27.5
TIME NOISE LEVELS 07:00	- 23:00 1 H	OUR SAM	PLES									
Date / Time	LAeq	LAmax	245	~ ~	40.5		Band Cent	-		4.0.1	0.0.1	40.0
07:00 00:00	60.9	85.1	31.5 62.1	63 62.9	12 5 58.4	250 56.0	500 55.9	1.0 k 57.3	2.0 k 53.8	4.0 k 48.3	8.0 k 44.2	16.0 34.5
07:00 - 08:00 08:00 - 09:00	60.2	83.1	61.6	62.0	56.3	55.2	56.0	57.3	52.3	40.3	34.0	23.0
09:00 - 10:00	61.3	83.4	65.8	63.1	59.0	57.3	56.5	57.9	54.6	46.8	39.0	30.9
10:00 - 11:00	58.2	80.0	62.9	62.0	56.4	55.6	52.7	54.8	50.4	44.9	44.2	42.
11:00 - 12:00	61.1	84.3	63.4	62.3	56.6	55.1	56.2	58.0	54.1	44.6	37.8	30.6
12:00 - 13:00	60.2	83.0	61.7	61.7	58.4	56.7	56.5	56.9	52.4	43.7	35.5	25.
13:00 - 14:00	60.1	83.1	62.3	63.2	60.5	55.6	55.6	56.6	52.6	46.9	43.0	33.6
14:00 - 15:00	59.4	83.4	62.0	60.9	57.9	54.2	55.2	56.3	51.6	43.5	37.7	24.4
15:00 - 16:00	59.3	83.1	59.9	60.5	55.2	54.9	54.8	56.2	51.9	43.9	34.1	22.8
16:00 - 17:00	59.7	83.7	62.1	61.3	55.3	55.1	55.0	56.7	52.2	45.2	38.7	28.
17:00 - 18:00	61.3	82.4	63.7	63.1	58.6	57.0	56.5	58.1	54.0	47.5	40.6	29.
18:00 - 19:00	61.1	83.2	62.2	62.5	60.3	56.9	57.0	58.1	53.3	45.3	35.8	26.
19:00 - 20:00	59.5	83.2	59.8	59.8	55.7	55.3	54.7	56.7	51.8	43.6	34.0	23.
20:00 - 21:00	58.5	79.9	59.8	58.4	54.8	55.3	54.7	55.3	50.8	43.1	34.0	20.8
21:00 - 22:00	60.1	85.8	59.2	58.7	55.1	55.2	55.3	56.4	52.9	48.3	44.0	34.
22:00 - 23:00	57.9	83.1	58.5	57.9	54.2	53.4	53.4	55.0	50.2	42.0	32.4	21.2
IT TIME NOISE LEVELS 23:(Date / Time	00 - 07:00 LAeq	15 M INUTI LA max			12 5		and Cent			4 0 k	80 k	16 0
			E SAM PL 31.5 53.3	63 54.8	12 5 52.2	Octave E 250 50.4	3 and Cent 500 52.7	re Freque 1.0 k 54.2	ency (Hz) 2.0 k 49.2	4.0 k 40.0	8.0 k 31.5	
	LAeq	LAmax	3 1.5	63		250	500	1.0 k	2.0 k			20.
Date / Time 23:00 - 23:15	LA eq 57.0	LA max 82.7	3 1.5 53.3	63 54.8	52.2	250 50.4	500 52.7	1.0 k 54.2	2.0 k 49.2	40.0	31.5	20. 17.
Date / Time 23:00 - 23:15 23:15 - 23:30	LA eq 57.0 54.7	LA max 82.7 81.1	3 1.5 53.3 53.7	63 54.8 54.5	52.2 50.7	250 50.4 50.0	500 52.7 50.6	1.0 k 54.2 52.2	2.0 k 49.2 45.2	40.0 36.7	31.5 28.8	20. 17. 38.
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45	LA eq 57.0 54.7 59.0 51.3 53.5	LA max 82.7 81.1 87.2 75.4 79.8	31.5 53.3 53.7 55.6	63 54.8 54.5 61.9 55.3 53.9	52.2 50.7 55.9 53.3 50.9	250 50.4 50.0 52.3	500 52.7 50.6 51.2 47.5 49.7	1.0 k 54.2 52.2 53.9 47.9 50.1	2.0 k 49.2 45.2 52.8	40.0 36.7 50.6 33.7 37.2	31.5 28.8 47.8 28.9 28.4	20. 17. 38. 18. 17.2
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30	LA eq 57.0 54.7 59.0 51.3 53.5 45.2	LA max 82.7 81.1 87.2 75.4 79.8 58.1	31.5 53.3 53.7 55.6 56.9 50.8 45.6	63 54.8 54.5 61.9 55.3 53.9 47.8	52.2 50.7 55.9 53.3 50.9 44.9	250 50.4 50.0 52.3 51.9 48.8 40.1	500 52.7 50.6 51.2 47.5 49.7 39.0	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4	40.0 36.7 50.6 33.7 37.2 22.0	31.5 28.8 47.8 28.9 28.4 18.5	20. 17. 38. 18. 17.2 12.9
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7	52.2 50.7 55.9 53.3 50.9 44.9 42.9	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1	40.0 36.7 50.6 33.7 37.2 22.0 19.4	31.5 28.8 47.8 28.9 28.4 18.5 15.8	20. 17. 38. 18. 17.2 12.9 12.2
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2 36.3	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4	40.0 36.7 50.6 33.7 37.2 22.0 19.4 18.9	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0	20. 17. 38. 18. 17.2 12.9 12.9 12.9
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6 48.8	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2 36.3 38.6	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9	40.0 36.7 50.6 33.7 37.2 22.0 19.4 18.9 31.3	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5	20. 17. 38. 18. 17.2 12.9 12.9 12.6 12.6
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:15 - 01:30	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6 48.8 44.8	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8 35.7	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 34.9	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2 36.3 38.6 35.6	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8	40.0 36.7 50.6 33.7 37.2 22.0 19.4 18.9 31.3 16.4	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3	20. 17. 38. 18. 17.2 12.9 12.9 12.6 12.6 12.6
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 810 56.6 51.4	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6 48.8 44.8 44.8	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8 35.7 35.2	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 34.9 33.3	500 52.7 50.6 512 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8 30.1	40.0 36.7 50.6 33.7 22.0 19.4 18.9 31.3 16.4 14.7	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7	20. 17. 38. 18. 17.2 12.5 12.6 12.6 12.6 11.6 11.6
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6 51.4 54.0	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6 45.2 45.6 48.8 44.8 45.5 43.5	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9 41.2	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8 35.7 35.2 35.0	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 34.9 33.3 33.1	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4 33.4	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8 30.1 28.6	40.0 36.7 50.6 33.7 22.0 19.4 18.9 31.3 16.4 14.7 17.8	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0	20. 17. 38. 18. 17.2 12.5 12.5 12.6 12.6 12.6 11.6 11.6
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2 45.2	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6 51.4 54.0 65.4	31.5 53.3 53.7 55.6 56.9 50.8 45.6 45.2 45.6 45.2 45.6 48.8 44.8 45.5 43.5 47.9	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9 41.2 49.1	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8 35.7 35.2 35.0 47.8	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 37.6 34.9 33.3 33.1 39.3	500 52.7 50.6 51.2 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4 33.4 37.0	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7 43.2	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8 30.1 28.6 36.8	40.0 36.7 50.6 33.7 22.0 19.4 18.9 31.3 16.4 14.7 17.8 28.9	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0 23.0	20. 17. 38. 18. 17.2 12.5 12.5 12.6 12.6 12.6 11.6 11.6 11.6 14.2
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2 45.2 44.6	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6 51.4 56.6 51.4 56.6 51.4 56.6 65.4 67.6	31.5 53.3 53.7 55.6 50.8 45.6 45.2 45.6 48.8 44.8 45.5 43.5 47.9 47.8	63 54.8 54.5 619 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9 412 49.1 49.9	52.2 50.7 55.9 53.3 50.9 44.9 42.9 37.0 40.8 35.7 35.2 35.0 47.8 44.8	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 34.9 33.3 33.1 39.3 39.4	500 52.7 50.6 512 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4 33.4 37.0 38.4	1.0 k 54.2 52.2 53.9 47.9 750.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7 43.2 42.2	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8 30.1 28.6 36.8 36.3	40.0 36.7 50.6 33.7 22.0 19.4 18.9 31.3 16.4 14.7 17.8 28.9 29.0	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0 23.0 25.6	20. 17. 38. 18. 17.2 12.5 12.2 12.6 12.6 11.6 11.6 11.6 14.2
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:30 01:50 - 01:15 01:45 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30 02:30 - 02:45	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2 45.2 45.2 44.6 42.0	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6 51.4 54.0 65.4 67.6 53.9	31.5 53.3 55.6 56.9 50.8 45.6 45.2 45.6 45.2 45.6 48.8 44.8 45.5 43.5 47.9 47.8 44.0	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9 41.2 49.1 49.9 43.2	52.2 50.7 55.9 53.3 50.9 44.9 37.0 40.8 35.7 35.2 35.0 47.8 44.8 37.3	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 37.6 34.9 33.3 33.1 39.3 39.4 36.3	500 52.7 50.6 512 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4 33.4 33.4 33.4 33.4 33.4 33.4 33	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7 43.2 40.7 42.2 40.2	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.4 35.4 35.4 35.4 37.9 31.8 30.1 28.6 36.8 36.3 31.7	40.0 36.7 50.6 33.7 22.0 19.4 18.9 31.3 16.4 14.7 17.8 28.9 29.0 21.4	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0 23.0 25.6 21.9	20. 17. 38. 18. 17.2 12.5 12.5 12.6 12.6 12.6 11.6 11.6 11.6 11.6 11.6
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Date / Time 23:00 - 23:15 23:16 - 23:30 23:30 - 23:45 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:16 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30 02:15 - 02:30 02:15 - 02:30 03:15 - 03:30 03:15 - 03:30 03:15 - 03:30 03:15 - 03:30 03:15 - 04:30 04:15 - 04:30 04:15 - 04:30 04:15 - 04:30 04:15 - 04:30 05:00 - 05:15 05:15 - 05:30 05:30 - 05:45 05:45 - 06:00 06:00 - 06:15	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2 45.2 44.6 42.0 42.1 42.5 42.1 42.5 42.1 42.5 53.0 53.7 57.6 57.2 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7 53.0 53.7	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.6 51.4 67.6 53.9 58.1 60.3 76.6 58.7 58.1 60.3 76.6 58.7 58.1 55.8 57.7 55.0 63.5 85.9 78.1 69.1 71.4	31.5 53.3 55.6 56.9 50.8 45.6 45.2 45.6 45.2 45.6 45.2 45.8 44.8 45.5 47.9 47.8 44.0 46.6 46.0 46.5 45.8 46.0 46.5 45.8 46.3 45.7 46.9 48.4 62.0 62.2 9 48.4 63.0 58.6	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.0 43.9 41.2 49.1 49.9 43.2 44.1 49.9 43.2 44.1 48.8 44.3 44.2 42.4 54.0 45.1 45.5 1 45.5 1 49.5 57,7 58.9	52.2 50.7 55.9 44.9 42.9 37.0 40.8 35.7 35.2 35.0 47.8 44.8 37.3 36.0 47.8 44.8 37.3 36.0 43.2 41.7 37.9 35.1 51.8 36.7 39.9 37.9 40.3 54.9 54.9 54.9 54.9	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 34.9 33.3 33.1 39.3 39.4 36.8 41.7 37.9 36.8 41.7 37.9 33.8 52.2 35.1 35.9 37.2 38.3 52.2 35.1 35.9 37.2 38.3 52.2 35.1 35.9 37.2 38.3 52.3 55.0 6 47.2	500 52.7 50.6 512 47.5 49.7 39.0 38.2 36.3 38.6 336.6 336.6 33.4 33.4 33.4 33.4 33.4	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7 43.2 42.2 40.5 37.8 42.2 40.5 37.8 42.2 36.4 40.5 37.8 42.2 36.0 50.9 40.6 40.5 37.8 42.2 36.4 53.7 54.6 53.7 54.6 53.7 54.9 53.9 51.9	2.0 k 49.2 45.2 52.8 41.8 45.7 35.4 35.1 32.4 37.9 31.8 36.8 36.8 36.3 30.1 28.6 36.8 36.3 31.7 28.6 34.1 27.6 34.1 27.6 34.1 27.6 34.1 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 28.6 36.3 31.7 31.7 31.7 31.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 31.9 32.8 35.5 45.7 35.5 45.0 55.4 45.7 35.5 45.0 55.4 45.6 36.5 45.7 35.5 45.0 55.4 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.6 45.7 45.6	40.0 36.7 50.6 33.7 37.2 22.0 19.4 18.9 31.3 16.4 14.7 17.8 28.9 29.0 21.4 17.1 17.1 17.1 17.1 17.1 17.1 17.1 1	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0 23.0 25.6 21.9 23.0 25.6 21.9 14.2 15.4 21.3 19.3 20.7 30.7 15.8 18.2 19.0 37.3 35.8 19.9 9 29.0	16.0 20 17 17 12
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:16 - 00:30 00:30 - 00:45 00:45 - 01:00 01:45 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:30 - 02:45 02:30 - 02:45 02:30 - 02:45 03:30 - 03:45 03:35 - 03:30 03:35 - 03:30 03:35 - 04:30 04:45 - 04:30 04:45 - 05:00 05:15 - 05:30 05:30 - 05:45 05:30 - 05:45	LA eq 57.0 54.7 59.0 51.3 53.5 45.2 44.7 42.8 53.0 42.1 40.4 39.2 44.6 42.0 42.0 42.0 42.0 42.0 44.6 39.4 37.8 54.9 42.1 42.2 42.5 44.7 57.6 57.2 53.0	LA max 82.7 81.1 87.2 75.4 79.8 58.1 56.8 55.4 81.0 56.8 55.4 81.0 65.4 67.6 53.9 58.1 60.3 76.6 53.9 58.1 60.3 76.6 58.7 54.9 81.1 55.8 57.7 55.0 63.5 85.9 78.1 69.1	31.5 53.3 55.6 56.9 50.8 45.6 45.2 45.6 48.8 44.8 44.8 45.5 43.5 47.9 47.8 44.0 46.6 46.0 46.5 45.8 46.0 52.9 46.3 45.7 46.9 48.4 62.2 63.0	63 54.8 54.5 61.9 55.3 53.9 47.8 46.7 44.5 48.2 43.9 41.2 49.1 49.9 43.2 44.1 48.8 44.3 44.2 42.4 54.0 45.1 44.5 47.1 49.2 57.4	52.2 50.7 55.9 44.9 42.9 37.0 40.8 35.7 35.2 35.0 47.8 44.8 37.3 36.0 43.2 41.7 37.9 35.1 51.8 36.7 35.1 51.8 36.9 37.9 40.3 54.9 54.4 53.2	250 50.4 50.0 52.3 51.9 48.8 40.1 37.1 35.1 37.6 33.3 33.1 39.3 39.4 36.3 34.9 36.8 417 37.9 33.8 52.2 35.1 35.9 37.2 38.3 52.2 35.1	500 52.7 50.6 512 47.5 49.7 39.0 38.2 36.3 38.6 35.6 34.4 33.4 33.4 33.4 33.4 33.4 33.4 36.6 36.5 35.2 40.9 37.0 34.2 53.4 36.6 36.5 35.2 40.9 37.0 34.2 53.4 35.6 36.2 39.8 53.9 52.8 48.9	1.0 k 54.2 52.2 53.9 47.9 50.1 43.6 43.2 41.5 52.6 40.7 38.9 37.7 43.2 40.2 40.2 40.2 40.5 37.8 42.2 36.4 35.0 50.9 40.6 50.9 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	2.0 k 49.2 45.2 52.8 418 45.7 35.4 35.1 32.4 37.9 318 30.1 28.6 36.8 36.8 36.8 36.8 36.8 36.8 317 317 28.6 34.1 27.6 28.2 45.7 31.9 22.8 32.8 32.8 32.5 54.90 50.1 45.6	40.0 36.7 50.6 33.7 37.2 22.0 19.4 18.9 31.3 16.4 14.7 17.8 28.9 29.0 21.4 17.1 17.1 28.9 29.0 21.4 17.1 17.1 17.1 24.7 20.7 20.7 21.7 37.6 17.9 9 19.9 19.9 19.2 25.4 40.9 36.1	31.5 28.8 47.8 28.9 28.4 18.5 15.8 17.0 21.5 13.3 12.7 14.0 23.0 25.6 21.9 25.6 21.9 14.2 15.4 21.3 19.3 20.7 30.7 15.8 20.7 30.7 15.8 21.9 18.2 18.1 19.0 37.3 35.8 29.9	2077.7 3838 17.22.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 12.2.9 13.0.1 13.0

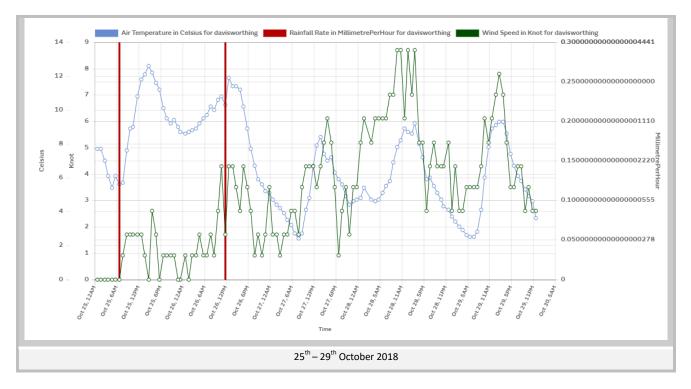


16.10 26 – 27th October 2018 Position 3

SE LEVEL SUMMARY ASSESS	MENT					Octave E	Band Cent	re Frequ	ency (Hz)			
Date / Time	LAeq	LAmax	31.5	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0
DAYTIME 07:00 - 23:00 Aeq 16 HOUR & Corr esponding LAmax 16 HOUR	60.8	88.0	66.9	63.1	57.6	56.6	56.4	57.5	53.2	46.2	42.2	33.
NIGHTTIME 23:00 - 07:00	57.5	92.8	58.6	59.0	55.8	54.3	54.0	53.9	49.8	42.3	37.0	29.
TIME NOISE LEVELS 07:00	- 23:00 1 H	IOUR SAM	PLES			Octave F	and Cont	re Freque	ncv (Hz)			
Date / Time	LAeq	LAmax	31.5	63	12 5	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0
07:00 - 08:00	60.9	85.1	62.3	63.4	58.2	55.8	55.6	57.4	53.9	48.3	44.3	34
08:00 - 09:00	59.6	82.5	61.2	61.4	55.2	54.5	55.2	56.8	51.7	42.1	32.9	23
09:00 - 10:00	61.1	83.0	66.2	63.1	59.0	57.3	56.4	57.5	54.4	46.9	39.6	31
10:00 - 11:00	60.9	82.5	70.7	64.8	57.9	56.0	56.1	57.4	53.5	47.7	45.1	37
11:00 - 12:00	60.3	81.1	66.7	63.1	57.6	55.9	56.0	56.9	53.0	44.9	41.0	34
12:00 - 13:00	60.8	83.1	69.7	64.9	57.6	55.6	55.6	57.2	53.7	48.5	45.8	37
13:00 - 14:00	59.7	80.8	69.0	63.5	56.6	54.9	55.1	56.5	51.9	45.5	43.3	35
14:00 - 15:00	60.5	81.8 88.0	70.7	65.0	58.1 58.6	55.8	55.9	56.9 59.7	52.7	48.1	46.6 39.9	39
15:00 - 16:00	62.7 62.2	84.1	66.1 68.7	63.8 64.4	59.8	58.2 58.2	58.5 58.5	59.7	55.0 54.2	46.4 46.2	41.6	29 32
16:00 - 17:00 17:00 - 18:00	61.9	84.3	65.1	64.3	58.6	57.5	57.6	58.8	54.2	45.1	38.1	28
18:00 - 19:00	61.6	85.8	67.5	62.7	57.8	59.0	57.4	58.5	53.1	45.5	40.1	3
19:00 - 20:00	61.2	83.7	62.8	61.0	58.4	58.4	58.1	57.6	52.9	45.2	37.7	30
20:00 - 21:00	59.6	83.2	60.8	59.0	55.0	56.1	55.7	56.5	51.4	43.8	34.1	23
21:00 - 22:00	58.7	82.9	57.1	58.5	55.0	54.0	54.6	55.7	50.8	42.1	33.4	24
22:00 - 23:00	57.9	83.9	58.9	59.3	53.0	52.4	52.1	54.4	50.9	46.4	43.8	34
HT TIME NOISE LEVELS 23:0 Date / Time	00 - 07:00 LAeq	15 M INUTI LA max	E SAM PL 31.5	ES 63	12 5	Octave E 250	and Cent 500	re Freque 1.0 k		4.0 k	8.0 k	16.
					12 5 58.0			•	ency (Hz) 2.0 k 51.5	4.0 k 42.4	8.0 k 35.5	
Date / Time 23:00 - 23:15 23:15 - 23:30	LA eq 60.3 51.3	LA max 85.6 65.5	3 1.5 60.2 56.6	63 60.1 52.2	58.0 44.3	250 57.0 45.5	500 57.7 47.0	1.0 k 56.8 49.2	2.0 k 51.5 42.0	42.4 32.5	35.5 30.6	25 22
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45	LA eq 60.3 51.3 57.0	LA max 85.6 65.5 82.0	31.5 60.2 56.6 60.1	63 60.1 52.2 59.1	58.0 44.3 55.5	2 50 57.0 45.5 54.3	500 57.7 47.0 52.8	1.0 k 56.8 49.2 54.4	2.0 k 51.5 42.0 47.6	42.4 32.5 39.5	35.5 30.6 35.0	25 22 26
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00	LA eq 60.3 51.3 57.0 52.0	LA max 85.6 65.5 82.0 73.2	31.5 60.2 56.6 60.1 57.4	6 3 60.1 52.2 59.1 52.9	58.0 44.3 55.5 45.2	2 50 57.0 45.5 54.3 44.8	500 57.7 47.0 52.8 45.6	1.0 k 56.8 49.2 54.4 50.0	2.0 k 51.5 42.0 47.6 43.7	42.4 32.5 39.5 32.6	35.5 30.6 35.0 29.7	25 22 26 21
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15	LA eq 60.3 51.3 57.0 52.0 57.6	LA max 85.6 65.5 82.0 73.2 85.4	3 1.5 60.2 56.6 60.1 57.4 55.5	6 3 60.1 52.2 59.1 52.9 58.3	58.0 44.3 55.5 45.2 55.5	2 50 57.0 45.5 54.3 44.8 51.2	500 57.7 47.0 52.8 45.6 50.5	1.0 k 56.8 49.2 54.4 50.0 52.1	2.0 k 51.5 42.0 47.6 43.7 51.6	42.4 32.5 39.5 32.6 49.2	35.5 30.6 35.0 29.7 45.9	25 22 26 21 35
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30	LA eq 60.3 51.3 57.0 52.0 57.6 56.1	LA max 85.6 65.5 82.0 73.2 85.4 81.8	31.5 60.2 56.6 60.1 57.4 55.5 58.8	6 3 60.1 52.2 59.1 52.9 58.3 56.2	58.0 44.3 55.5 45.2 55.5 52.8	2 50 57.0 45.5 54.3 44.8 51.2 53.4	500 57.7 47.0 52.8 45.6 50.5 53.4	1.0 k 56.8 49.2 54.4 50.0 52.1 52.6	2.0 k 51.5 42.0 47.6 43.7 51.6 47.8	42.4 32.5 39.5 32.6 49.2 38.8	35.5 30.6 35.0 29.7 45.9 34.5	25 22 26 21 35 25
Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45	LA eq 60.3 51.3 57.0 52.0 57.6 56.1 63.5	LA max 85.6 65.5 82.0 73.2 85.4 81.8 92.8	31.5 60.2 56.6 60.1 57.4 55.5 58.8 61.2	63 60.1 52.2 59.1 52.9 58.3 56.2 63.0	58.0 44.3 55.5 45.2 55.5 52.8 59.5	2 50 57.0 45.5 54.3 44.8 51.2 53.4 58.5	500 57.7 47.0 52.8 45.6 50.5 53.4 61.0	1.0 k 56.8 49.2 54.4 50.0 52.1 52.6 59.5	2.0 k 51.5 42.0 47.6 43.7 51.6 47.8 56.1	42.4 32.5 39.5 32.6 49.2 38.8 47.7	35.5 30.6 35.0 29.7 45.9 34.5 46.1	25 22 26 21 35 25 4
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Date / Time 23:00 - 23:15 23:16 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:00 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30	LA eq 60.3 51.3 57.0 52.0 57.6 56.1 63.5 46.4 58.8 46.7 45.1 61.2 45.8 61.7	LA max 85.6 65.5 82.0 73.2 85.4 81.8 92.8 60.4 83.3 59.5 61.7 85.7 59.7 84.7	31.5 60.2 56.6 60.1 57.4 55.5 58.8 61.2 50.2 58.1 52.6 50.1 60.2 50.0 55.0 1 60.2	63 60.1 52.2 59.1 52.9 58.3 56.2 63.0 48.1 62.8 47.8 48.4 62.8 47.8 48.4 62.8 47.5 63.2	58.0 44.3 55.5 45.2 55.5 52.8 59.5 40.6 57.6 39.0 39.0 39.0 59.2 39.4 59.6	2 50 57.0 45.5 54.3 44.8 51.2 53.4 58.5 39.6 57.2 39.6 38.4 58.7 39.2 57.8	500 57.7 47.0 52.8 45.6 50.5 53.4 61.0 40.9 56.7 40.8 39.3 58.4 40.0 58.6	1.0 k 56.8 49.2 54.4 50.0 52.1 52.6 59.5 44.7 54.9 45.0 43.2 57.2 44.0 57.6	2.0 k 51.5 42.0 47.6 43.7 51.6 47.8 56.1 36.9 49.2 37.3 36.0 53.4 36.8 54.7	42.4 32.5 39.5 32.6 49.2 38.8 47.7 24.0 41.8 27.0 27.4 46.9 25.1 47.4	35.5 30.6 35.0 29.7 45.9 34.5 46.1 22.1 34.9 25.7 24.2 40.6 23.7 37.8	25 22 26 21 35 25 4 15 25 16 35 35 16 35 26 26
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Date / Time 23:00 - 23:15 23:15 - 23:30 23:30 - 23:45 23:45 - 00:00 00:00 - 00:15 00:15 - 00:30 00:30 - 00:45 00:45 - 01:00 01:05 - 01:15 01:15 - 01:30 01:30 - 01:45 01:45 - 02:00 02:00 - 02:15 02:15 - 02:30 02:30 - 02:45 02:45 - 03:00 03:00 - 03:15	LA eq 60.3 51.3 57.0 52.0 57.6 56.1 63.5 46.4 58.8 46.7 45.1 61.2 45.8 61.7 44.6 63.7 44.3	LA max 85.6 65.5 82.0 73.2 85.4 81.8 92.8 60.4 83.3 59.5 61.7 85.7 59.7 84.7 61.1 88.1 58.6	31.5 60.2 56.6 60.1 57.4 55.5 58.8 61.2 50.2 58.1 52.6 50.1 60.2 50.0 58.4 53.4 61.3 52.7	63 60.1 52.2 59.1 52.9 58.3 56.2 63.0 48.1 62.8 47.8 47.8 48.4 62.8 47.5 63.2 48.1 65.1 47.0	58.0 44.3 55.5 52.8 59.5 40.6 57.6 39.0 39.0 39.0 59.2 39.4 59.6 39.0 63.6 38.3	250 57.0 45.5 54.3 44.8 51.2 53.4 58.5 39.6 57.2 37.5 57.5 57.5 57.5 57.5 57.5 57.5 57.5	500 57.7 47.0 52.8 45.6 50.5 53.4 610 40.9 56.7 40.8 39.3 58.4 40.0 58.6 39.4 58.6 39.4 59.3 38.4	1.0 k 56.8 49.2 54.4 50.0 52.1 52.6 54.7 54.9 45.0 43.2 57.2 44.0 57.6 42.6 60.7 42.3	2.0 k 51.5 42.0 47.6 43.7 51.6 47.8 43.7 51.6 47.8 43.7 51.6 47.8 43.7 51.6 43.7 51.6 43.7 51.5 43.7 51.6 43.7 51.5 43.7 51.5 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 43.7 51.6 55.4 36.9 49.2 37.3 36.0 53.4 36.8 54.7 55.6 55.4 55.6 55.4 55.6 55.4 55.6 55.4 55.6 55.6 55.4 55.6 55.7 55.6 55.6 55.6 55.6 55.7 55.6 55.6 55.6 55.6 55.6 55.7 55.6 55.7 55.6 55.7 55.6 55.6 55.7 55.6 55.7 55.7 55.6 55.7	42.4 32.5 39.5 32.6 49.2 38.8 47.7 24.0 418 27.0 27.4 46.9 25.1 47.4 28.2 48.4 28.3	35.5 30.6 35.0 29.7 45.9 34.5 46.1 22.1 34.9 25.7 24.2 40.6 23.7 37.8 27.3 39.6 27.3	222 226 21 35 25 25 25 4 15 25 25 17 16 38 38 16 26 19 26 19
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17 ENVIRONMENTAL CONDITIONS



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