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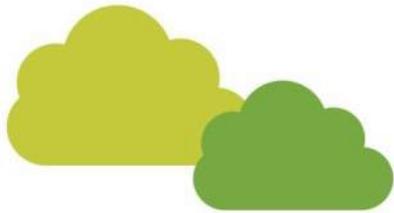
Environmental Associates

Noise Assessment

Land off Eastfield, Shepley

September 2025

Banks Property



Noise Assessment

Land off Eastfield, Shepley

Client: Banks Property

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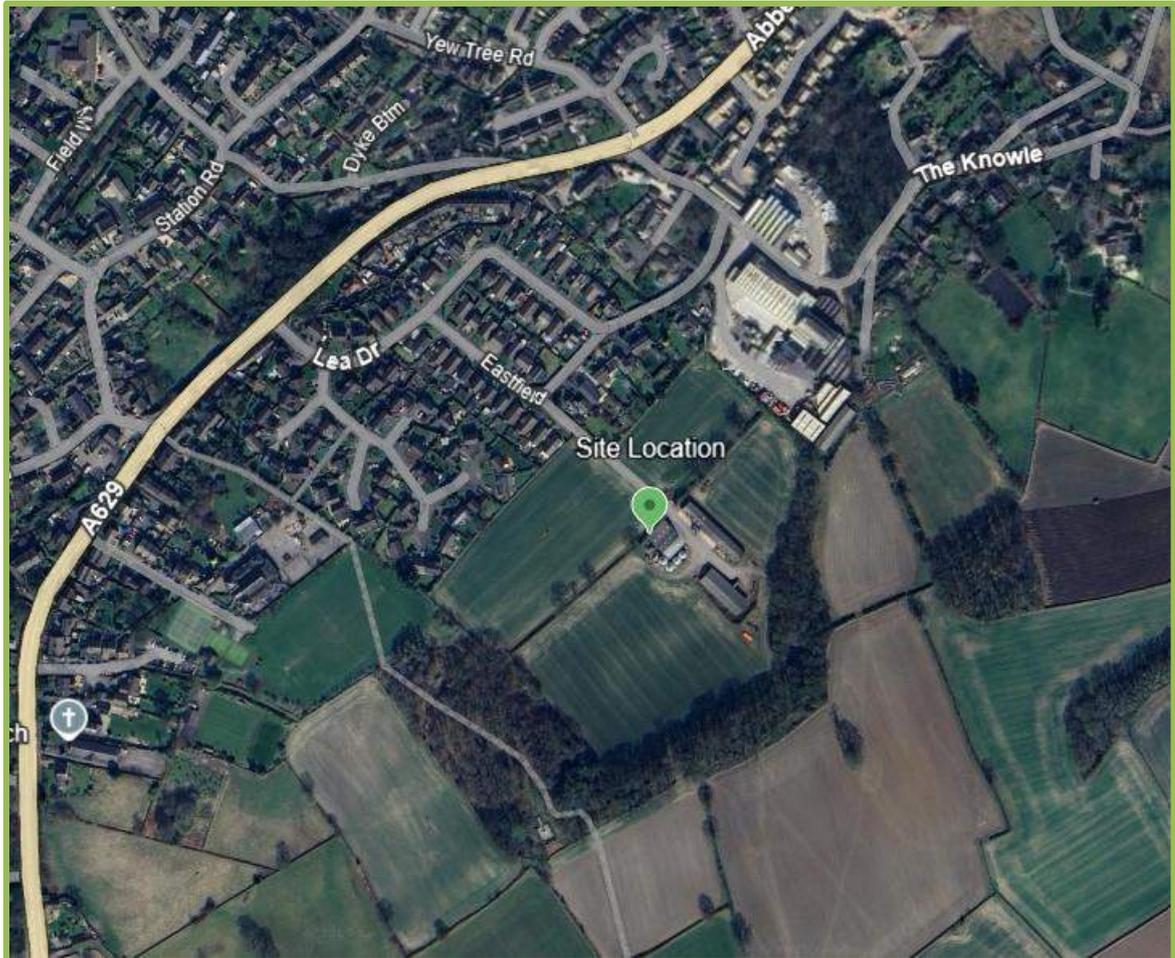
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1 INTRODUCTION

1.1.1 NJD Environmental Associates Ltd was instructed by Banks Property to undertake a noise assessment for an outline planning application for a proposed residential development at Land off Eastfield, Shepley. The site location is provided below in Drawing 1, with the illustrative masterplan provided in Drawing 2.



Drawing 1: Site location



Drawing 2: Illustrative Masterplan

1.1.2 A noise assessment has been prepared for the planning application, with measurements taken of noise sources impacting the development, calculations performed using noise modelling software, and the results interpreted in accordance with the relevant standards.

2 PLANNING POLICY AND GUIDANCE

2.1 National Planning Policy Framework (NPPF)

2.1.1 The revised NPPF published in December 2024 provides the following with regards to noise, set out at paragraph 187 and 198:

'187: Planning policies and decisions should contribute to and enhance the natural and local environment by: ...

(e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans.'

and

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

In doing so they should:

a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;

b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason."

2.1.2 It is clear that the NPPF seeks to limit the exposure of new development to unacceptable levels of noise, although the policy does not seek to prescribe what constitutes an unacceptable level of noise.

2.2 Noise Policy Statement for England (NPSE)

2.2.1 The Department for Environment, Food and Rural Affairs (DEFRA) published the NPSE in March 2010.

2.2.2 The explanatory note of NPSE defines the terms used in the NPPF:

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

‘Significant adverse’ and ‘adverse;

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

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.

LOAEL – Lowest Observed Adverse Effect Level

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

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

SOAEL – Significant Observed Adverse Effect Level

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

2.2.3 The NPSE does not define the SOAEL numerically, stating at paragraph 2.22:

“2.22 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.”

2.2.4 There is no local or national guidance on how the three terms should be defined numerically, it is for the assessor to collate and interpret appropriate guidance on noise, such as may be found in British Standards, and correlate the guidance

with the concepts of NOEL, LOAEL and SOAEL.

2.3 Planning Practice Guidance: Noise (PPGN)

2.3.1 In March 2014, the Government released the PPG on noise, revised July 2019. This document sets out a number of principles and reinforces the guidance set out in the NPPF and NPSE.

2.3.2 Paragraph 001 of PPGN notes that:

“Noise needs to be considered when new development may create additional noise and when new developments would be sensitive to the prevailing acoustic environment.”

2.3.3 It goes on to note in paragraph 003 that:

“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.”*

2.3.4 The PPGN broadly repeats the NPSE definitions of the NOEL, LOAEL AND SOAEL and it provides a summary table to explain how the terms relate to each other and to typical human response to sound. The table is replicated below in Table 1.

Table 1: PPGN Noise Exposure Hierarchy			
Perception	Examples of Outcome	Increasing Effect Level	Action
Not Noticeable	No Effect	No Observed Effect	No specific measures required
Noticeable and not intrusive	Noise can be heard but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect	No specific measures required
		Lowest Observed Adverse Effect Level	
Noticeable and intrusive	Noise can be heard and small changes in behaviour and/or attitude, e.g. turning up volume of televisions; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the areas such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
		Significant Observed Adverse Effect Level	
Noticeable and disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and very disruptive	Extensive and regular changes in behaviour and/or inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory or non-auditory	Unacceptable Adverse Effect	Prevent

2.3.5 The PPGN provides advice on how to mitigate the effects of noise, noting that there are options to reduce noise at source, to optimise site layouts and to use planning conditions.

3 ASSESSMENT METHODOLOGY

3.1 BS8233:2014 and WHO 1999 Guidance Levels

3.1.1 BS8233:2014 'Guidance on sound insulation and noise reduction for buildings' provides guidance for the control of noise in and around buildings. It applies to the design of new buildings, or refurbished buildings undergoing a change of use.

3.1.2 BS8233 refers to the World Health Organisation research and recommendations when defining acceptable and upper guidance noise levels within gardens during the day, and within habitable rooms in dwellings during the day and night-time periods as follows:

Table 2: Summary of BS8233 guidance noise levels			
Activity	Location	0700 to 2300h	2300 to 0700h
Resting	Living room	35dB LAeq,16h	-
Relaxing	Gardens	55dB LAeq,16h	-
Dining	Dining room	40dB LAeq,16h	-
Sleeping (daytime resting)	Bedroom	35dB LAeq,16h	30dB LAeq,8h

3.1.3 The above levels have been adopted for the purpose of this assessment.

3.2 BS4142:2014+A1:2019 Industrial and Commercial Sound Guidance

3.2.1 Where industrial or commercial noise is present or proposed and likely to impact a residential receptor, the guidance contained within BS 4142:2014+A1:2019 'Methods for rating and assessing industrial and commercial sound' should be followed. The guidance enables the effects of such noise on people nearby to be assessed and the associated risks to be minimised.

3.2.2 The guidance provides a methodology for determining an initial estimate of significance through subtracting the measured background noise level from the rating level (the specific sound level of the source corrected for any distinctive acoustic characteristics).

- 3.2.3 Typically, the greater the difference, the greater the magnitude of the impact.
- A difference of around +10dB or more is likely to be an indication of a significant adverse impact, depending on the context.
 - A difference of around +5dB is likely to be an indication of an adverse impact, depending on the context.
 - The lower the rating level is relative to the measured background sound level, the

less likely it is that the specific sound source will have an adverse impact or significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

3.2.4 The context, as defined within BS4142, relates to the following factors:

- The absolute level of sound.
- Character and level of the residual sound compared to the character and level of the specific sound.
- Acoustic design measures.

4 NOISE SURVEY

4.1 Introduction

4.1.1 Between the 19th and 23rd June 2025, noise measurements were undertaken in order to determine the levels impacting the site.

4.1.2 Measurements were taken using Acoem Fusion sound level meters. The Class 1 instruments logged 1/3 octave levels throughout the measurements, in addition to audio recordings to aid subsequent analysis. The instruments were calibrated before and after the measurements to a reference level of 94dB, with no notable drift observed.

4.1.3 The sound level meters (SN: 11483 and 11484) and field calibrator (SN: 84064) hold valid calibration certificates traceable to national standards, compliant with the requirements of BS7445. All calibration certificates can be made available upon request.

4.2 Monitoring Locations

4.2.1 Noise measurements were taken at the locations shown in Drawing 3 below.



Drawing 3: Noise monitoring locations

4.2.2 The monitoring locations were as follows:

- **ML1:** North-east of the site at the closest possible position relative to Shepley Spring.
 - The measurement took place during the following dates and times:
 - 1400h on the 19th June, to 1140h on the 23rd June 2025.
- **ML2:** South-west of the site at the closest possible position relative to A629 and Shepley School. The location was selected as it was the closest position with line of sight to the A629.
 - The measurement took place during the following dates and times:
 - 1425h on the 19th June, to 1155h on the 23rd June 2025.

4.2.3 During the deployment of noise monitoring equipment, observations were made with regards to the dominant sources. Noise associated with building service plant was dominant towards the north of the site. Distant road traffic to the south of the site was just audible.

4.2.4 Weather conditions were generally dry throughout the duration of the survey, with windspeeds typically below 5ms⁻¹. During periods on Sunday, wind speeds were noted to be higher than 5ms⁻¹ which has been removed from further analysis. Similarly, all data from Monday morning has been removed due to rain and high wind speeds.

Uncertainties

4.2.5 Noise measurements have been undertaken with high precision Class 1 instruments calibrated before and after the survey by an appropriately qualified and experienced technician.

4.2.6 The data has been recorded over a number of days including a weekday period when traffic movements, activity associated with Shepley Spring and baseline noise levels are generally higher, as well as a weekend period when background levels are typically lower.

4.2.7 The noise models presented in this assessment calculate noise propagation to the methodologies contained within ISO 9613-2 Acoustic – Attenuation of sound during propagation outdoors. This gives a higher level of accuracy for the level of attenuation provided by intervening topography and barriers than the method provided by BS5228.

4.2.8 Whilst an element of uncertainty will inherently exist in any noise assessment due to the large number of potential variables, all reasonable steps have been taken to reduce this.

4.2.9 As such, the level of uncertainty should not be significant and the results and conclusions should be considered robust.

4.3 Existing Noise Levels

4.3.1 The measured noise levels, rounded to the nearest whole decibel, are summarised in Tables 3 and 4 below.

Table 3: Measured Daytime Noise Levels (dBA) - ML1				
Date	Time	LAeq	LAm _{ax}	LA90
Daytime				
Thursday 19/06/2025	0700-2300h	53	72	50
Friday 20/06/2025		53	71	47
Saturday 21/06/2025		51	70	48
Sunday 22/06/2025		50	67	47
Monday 23/06/2025		-	-	-
Night-time				
Date	Time	LAeq	LAm _{ax} *	LA90
Thursday 19/06/2025	2300-0700h	51	60	49
Friday 20/06/2025		48	57	46
Saturday 21/06/2025		48	57	46
Sunday 22/06/2025		51	60	47
Table 4: Measured Daytime Noise Levels (dBA) - ML2				
Date	Time	LAeq	LAm _{ax}	LA90
Daytime				
Thursday 19/06/2025	0700-2300h	42	69	34
Friday 20/06/2025		43	72	35
Saturday 21/06/2025		42	66	34
Sunday 22/06/2025		44	66	38
Monday 23/06/2025		-	-	-
Night-time				
Date	Time	LAeq	LAm _{ax} *	LA90
Thursday 19/06/2025	2300-0700h	38	54	29
Friday 20/06/2025		34	47	27
Saturday 21/06/2025		38	54	28
Sunday 22/06/2025		41	54	32
*10 th Highest LAm _{ax} Event				

4.4 LAm_{ax} Analysis

4.4.1 WHO Guidelines for Community Noise (1999) suggests guideline values for internal noise exposure which take into consideration the identified health effects and are set, based on the lowest effect levels for general populations. The WHO (1999) recommends a guidance level of 45dB LAm_{ax}(F) within bedroom areas during the night-time, with the recommendation that;

'For intermittent noise, it is emphasized that it is necessary to take into account both the maximum sound pressure level and the number of noise events.'

4.4.2 World Health Organisation (WHO 2009), states in Section 3.4:

'For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45 dB LAm_{ax} more than 10 – 15 times per night.'

4.4.3 The ProPG Noise further expands this point with reference to BS8233 Table 4, Note 4, stating:

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

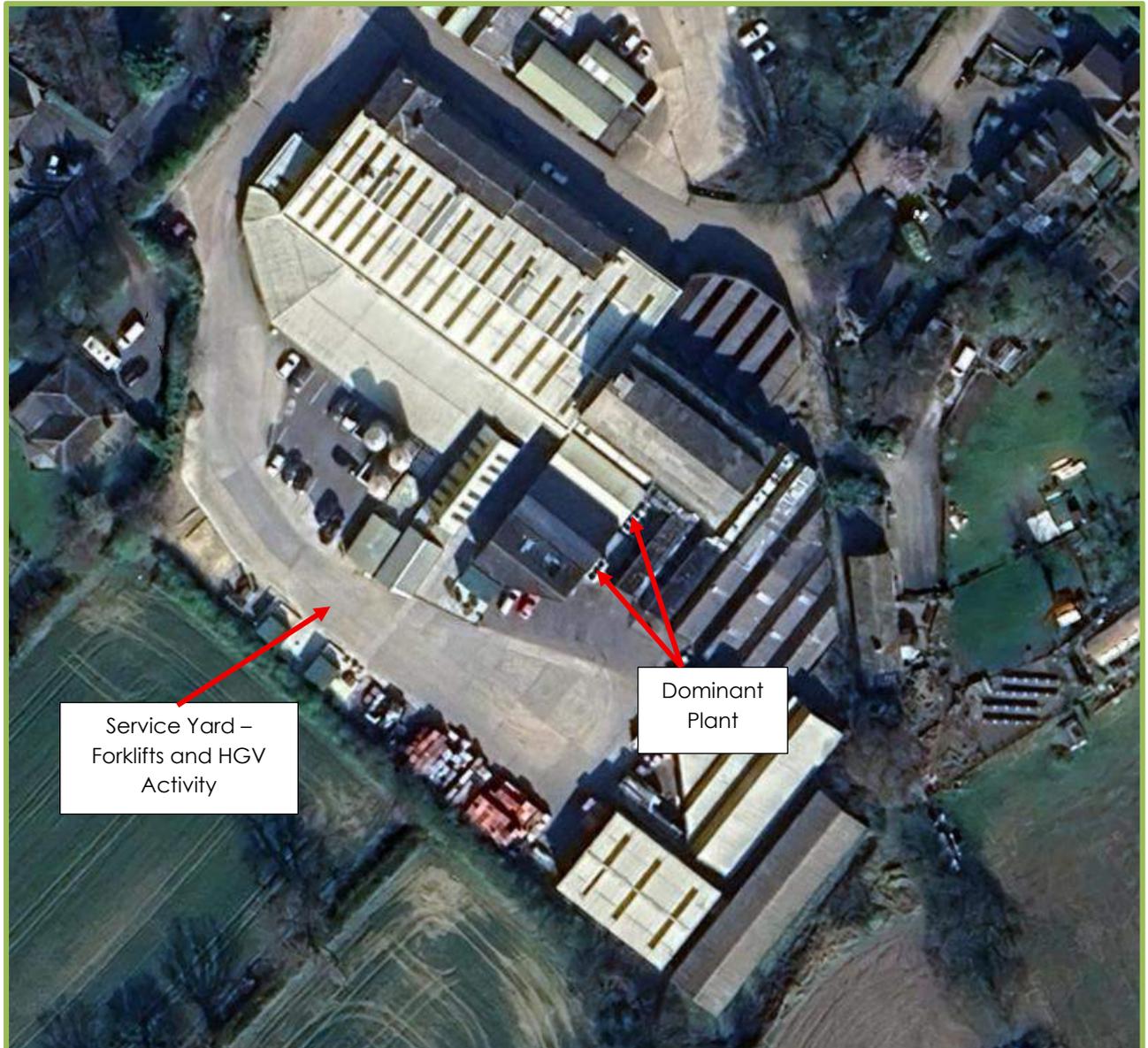
4.4.4 In light of the above, analysis has been conducted based on the LAm_{ax} events observed during the night-time period at ML1 and ML2. The analysis of each night-time period found that the 10th highest measured LAm_{ax} was 60dB at ML1 and 54dB at ML2. These levels have therefore been adopted for use in the noise modelling exercise, as detailed in the following Sections.

4.4.5 Full details of the measurements are presented in Appendix 1.

4.5 Shepley Spring

4.5.1 During the site walkover, building services plant noise from Shepley Spring was dominant along the northern edge of the site boundary. There were a number of items of plant visible, and noise from a forklift truck and HGV was also audible.

4.5.2 The main source of noise came from the sources indicated below.



Drawing 4: Identified Sources of Noise

- 4.5.3 Following a review of the monitoring data and corresponding sound files at ML1, noise from the building service plant is audible throughout both the daytime and night-time period and is the dominant noise source on the northern boundary.
- 4.5.4 Examination of the sound files at ML1 has been undertaken to isolate noise levels from the plant during both the daytime and night-time. The results in Table 5 below summarise these noise levels.

Table 5: Summary of measured noise levels from Shepley Spring BSP													
Description	Sound Pressure Levels (dB)												Overall Sound Pressure Level (dBA)
	8 Hz	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz	
Daytime	46	51	58	64	62	59	51	42	37	34	34	21	53
Night-time	43	49	58	68	59	55	48	37	32	29	25	20	50

4.5.5 Noise from HGV's and forklifts was also audible on analysis of the sound files, however as the distance of the mobile plant from the microphone cannot be precisely determined, representative noise levels have been sourced from BS5228-1: *Code of practice for noise and vibration control on construction and open sites*. These noise levels have been provided in Table 6 below.

Table 6: Mobile Plant Noise Levels – Sound Pressure at 10m	
Description	LAeq
Forklift Truck	80
HGV	76

5 CADNAA NOISE MODELS

5.1 Input Data

5.1.1 Topographic data of the site and surrounding land has been incorporated into the noise models, with buildings and gardens positioned to reflect the proposed future development of the site.

5.1.2 For the purpose of these calculations, the ground absorption has been set to $G=0.75$ (which represents a mixture of acoustically soft and hard ground around the site). Buildings and roads have been set to $G=0$ (acoustically hard and reflective), with two orders of reflection considered.

5.1.3 The models have been programmed to assess scenarios based on the daytime (0700 to 2300h) and night-time (2300 to 0700h) periods, with receiver and grid calculation height set to 1.5 and 4m respectively.

Sports Pitches – Shepley School

5.1.4 ML2 was also positioned to characterise any noise arising from the sports facilities associated with Shepley School and Shepley Tennis Courts.

- 5.1.5 Upon review of the monitoring data, no recognisable or distinguishable noise attributable to the sports facilities were identified at the location of ML2.
- 5.1.6 Therefore, surrogate data has been utilised to represent noise from the sports pitches within the daytime LAeq model. An area source has been positioned on both the sports pitch and tennis courts, for a worst-case assumption.
- 5.1.7 Data has been sourced from The Sports England (2015) 'Artificial Grass Pitch (AGP) Acoustics – Planning Implications: Design Guidance Note' guidelines.
- 5.1.8 The Sports England (2015) findings indicate that the most significant noise source from typical AGP sports sessions is from raised human voice. In the Sports England study, it was found from the measurement data, a typical free-field noise level of 58 dB LAeq (1 hour) at a distance of 10 metres (m) from the sideline has been determined as representative for noise from an AGP.

Shepley Spring

- 5.1.9 As discussed in Section 4.5, ML1 was positioned on the northern boundary of the site to identify specific source noise associated with Shepley Spring.
- 5.1.10 External plant noise was identified as the dominant source from the site, with occasional contributions from forklift trucks and HGVs operating within the rear service yard. Noise levels detailed in Tables 5 and 6 above have been incorporated into the daytime and night-time models.
- 5.1.11 For the external plant, a point source has been positioned at the location of the units identified and verified to the levels shown in Table 5, for both the daytime and night-time scenario.
- 5.1.12 For the HGV and forklift sources, assumptions regarding operating times and/or number of movements have been based on the audible sound files and are presented in Table 7 below. These sources have been modelled as a moving point source.

Table 7: HGVs and Forklift Movements and Reference Times			
Source	Reference Period	On Time	Number of Movements
HGV	Daytime (1 hour)	10 minutes	1
Forklift		60 minutes	4
HGV	Night-time (15 minute)	5 minutes	1
Forklift		15 minutes	2

5.1 Intrinsic Acoustic Mitigation

- 5.1.1 As part of the intrinsic design of the site, acoustic mitigation has been included in the form of a 4.0m high bund/barrier along the northern boundary, located adjacent Shepley Spring.
- 5.1.2 Any acoustic barrier utilised will have no gaps or cracks, will run continuous to the ground (or top of bund) and have a minimum superficial mass of 10-12 kg/m².
- 5.1.3 The location of this bund/barrier is shown in Figure 2.

5.2 Noise Model Results

Sports Pitch

- 5.2.1 The results associated with noise from a sports pitch is shown in Figure 1, with the assessment and interpretation of the results discussed in Section 6 below.

Building Services Plant

- 5.2.2 The results are shown in Figures 2 and 3, with the assessment and interpretation of the results discussed in the Section 7 below.

5.3 Noise Model Factors, Limitations and Uncertainties

- 5.3.1 The noise models presented in this assessment calculate noise propagation to the methodologies contained within ISO 9613-2 Acoustic – Attenuation of sound during propagation outdoors. This gives a higher level of accuracy for the level of attenuation provided by intervening topography and barriers than the method provided by BS5228.
- 5.3.2 All noise level predictions are based on simplified models of sound generation and propagation; however, some local conditions such as gusts of wind or bursts of turbulence in the air are too complex to be factored into the algorithms.
- 5.3.3 The noise models may therefore be subject to some minor uncertainties; however, it is noted that all predictions assume theoretical down-wind propagation from all sources to all receptors, and as such the models are more likely to over-predict noise levels compared to real-life conditions.
- 5.3.4 The primary factor that governs the validity of the models is the quality of the input data. As such, all practicable means have been explored to ensure that the data used in the models is as accurate as possible.

6 BS8233 ASSESSMENT

Road Traffic Noise

- 6.1.1 ML2 was positioned to characterise any noise from the A629. The position selected, had the most direct line of sight to the road, without obstruction from surrounding building and was located within the site boundary.
- 6.1.2 Analysis of data from ML2 indicates that the overall daytime and night-time LAeq values, as well as the night-time LMax, were below the relevant thresholds: 50 dB LAeq,16hr (day), 45 dB LAeq,8hr (night), and 60 dB LMax (night).
- 6.1.3 Allowing for 15 dB attenuation through an open window, the resulting internal noise levels are predicted to fall below the BS8233:2014 guideline values of 35 dB LAeq,16hr (day), 30 dB LAeq,8hr (night), and 45 dB LMax (night).
- 6.1.4 Internal noise levels, specifically from road traffic noise, can therefore be achieved with natural ventilation via openable windows and no further mitigation is required for this noise source.

Sports Pitches

- 6.1.5 As shown in Figure 1, noise levels are predicted to not exceed 49 dB LAeq at the façade of the closest proposed dwellings, assuming all sports pitches are occupied simultaneously. When accounting for 15 dB of attenuation through an open window, internal noise levels would therefore be below 35 dB LAeq,16hr during the daytime as outlined within BS8233:2014.
- 6.1.6 It is unlikely that all sports pitches will be occupied at full capacity simultaneously, as such, noise levels are likely to be lower than those predicted.

7 BS4142 ASSESSMENT

7.1 Background Noise Levels

- 7.1.1 To derive appropriate background noise levels, noise measurements from ML2 have been considered.
- 7.1.2 Due to the location of ML2, specific noise from the existing building service plant does not influence the overall background LA90 noise levels. Therefore, the measured values are considered representative of typical background noise levels in the vicinity of the receptor locations. The modal value has been selected for use with the assessment, as summarised in Table 8 below.

Table 8: Summary of Background Noise Levels (dB) – ML2	
Assessment Period	LA90
Daytime: 0700 – 2300h	35
Night-time: 2300 – 0700h	28

7.2 Rating Level

In accordance with BS4142, the specific noise level has been analysed to add appropriate corrections to account for any specific characteristics of the noise which may be experienced at the proposed dwellings, to create the rating level.

Tonality

7.2.1 The source noise level at ML1 has been analysed for the presence of any tones. Graphs 1 and 2 below shows the spectral time history of the plant noise for daytime and night-time periods respectively.



Graph 1: Spectral Time History of Plant Noise – Daytime



Graph 2: Spectral Time History of Plant Noise – Night-time

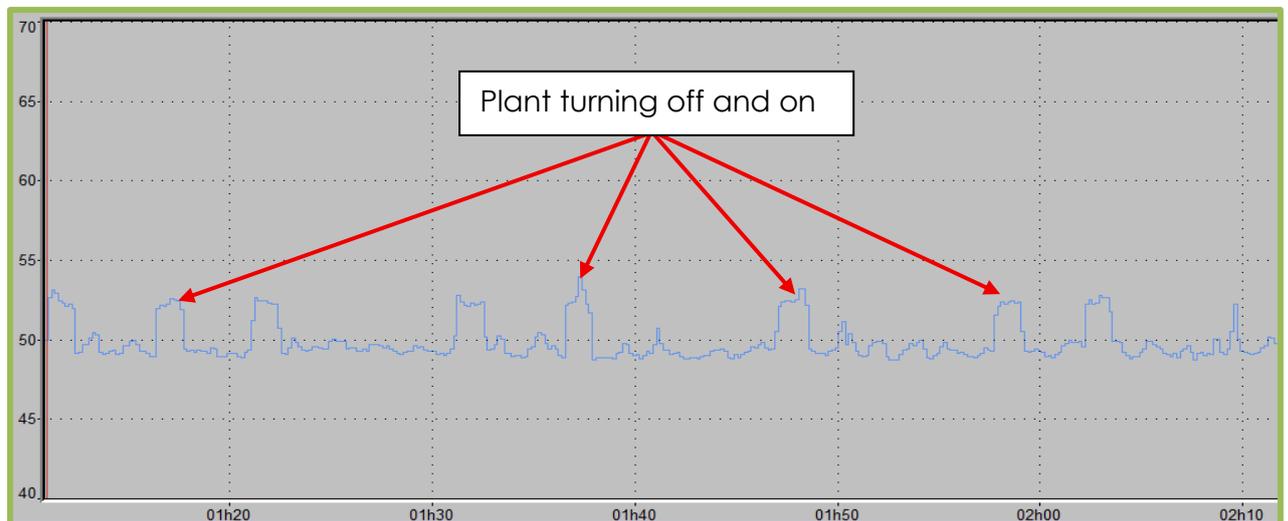
7.2.2 Whilst a peak is noted at 50Hz, the exceedance of the neighbouring 1/3 octaves is not sufficient to warrant a penalty. Therefore, in accordance with the objective methodology in BS4142, no specific tonality has been identified and therefore no correction is considered necessary.

Impulsivity

7.2.3 Noise associated with the building service plant is not considered to be impulsive. However, noise associated with the loading and unloading of HGV's and the moving of materials within the service yard, have the potential to be impulsive. Therefore, a +3 dB correction has been applied to account for impulsivity.

Intermittency

7.2.4 Graph 3 below presents a time-history of a 1-hour period during the night-time at ML1. As shown, and audible from analysis, an item of plant switches off/on routinely, with another item of plant consistently operating. therefore a +3 dB correction has been applied to account for intermittency.



Graph 3: Identified Intermittency of Plant

7.2.5 No other sound characterised have been identified.

7.3 Building Services Plant Noise Assessment

7.3.1 Tables 9 and 10 below present the findings of the BS4142 assessment for the existing building services plant during the daytime and night-time periods.

Table 9: BS4142 Assessment: Daytime

Results	Noise level (dB)	Commentary
	Day	
Specific sound level	44	Based on the calculated levels from Figure 2.
Acoustic feature correction	+6	Based on the analysis within section 7.2 above.
Rating level	50	Specific noise level corrected for acoustic features
Background sound level	35	Reference Table 8
Excess of rating over background sound level	+15	Rating level minus background level
Initial assessment of impact	S/A	Negligible (N); Low (L); Minor Adverse (M/A); Adverse (A); Significant Adverse (S/A)
Assessment of Context		<p>The initial assessment indicates that noise associated with existing building services plant may result in a significant adverse impact during the daytime, depending on the context. The context is assessed below:</p> <p>The specific noise level is predicted to be up to 44dB LAeq,T at the closest receptor during the daytime period.</p> <p>Assuming 15dB of attenuation for a partially open window (WHO 1999), internal noise levels would be below the BS8233 internal guidance levels for living rooms and bedrooms.</p> <p>Receptors have been positioned in garden areas, which are all located to the rear of the dwellings, which demonstrates that specific noise within gardens from the plant is predicted to be no more than 33 dBA, which is well below the BS8233 external noise requirements and also below the measured background noise level.</p>
Conclusion		<p>It is concluded, that whilst the absolute noise levels are below the guidance levels, due to the nature of noise associated with the commercial source, this may at time be perceptible. As such, the impact is expected to reside around the LOAEL in accordance with the NPSE, and results in an Adverse impact.</p> <p>Additional mitigation has therefore been considered.</p>

Table 10: BS4142 Assessment: Night-time		
Results	Noise level (dB)	Commentary
	Night	
Specific sound level	42	Based on the calculated levels from Figure 3.
Acoustic feature correction	+6	Based on the analysis within section 7.2 above.
Rating level	48	Specific noise level corrected for acoustic features
Background sound level	28	Reference Table 8
Excess of rating over background sound level	+20	Rating level minus background level
Initial assessment of impact	S/A	Negligible (N); Low (L); Minor Adverse (M/A); Adverse (A); Significant Adverse (S/A)
Assessment of Context	<p>The initial assessment indicates that noise associated with existing building services plant may result in a significant adverse impact during the night-time, depending on the context. The context is assessed below:</p> <p>The specific noise level is predicted to be up to 42dB LAeq,T at the closest receptor during the night-time period.</p> <p>Assuming 15dB of attenuation for a partially open window (WHO 1999), internal noise levels would be below the BS8233 internal guidance levels for living rooms and bedrooms.</p>	
Conclusion	<p>It is concluded, that whilst the absolute noise levels are below the guidance levels, due to the nature of noise associated with the commercial source, this may at time be perceptible. As such, the impact is expected to reside around the LOAEL in accordance with the NPSE, and results in an Adverse impact.</p> <p>Additional mitigation has therefore been considered.</p>	

7.1 BS4142 Discussion

- 7.1.1 As shown in Tables 9 and 10, the BS4142 assessment indicates the potential for an adverse impact from Shepley Spring operations during both the daytime and night-time, once the relevant acoustic corrections are applied.
- 7.1.2 At the proposed receptors, façade noise levels are predicted to be approximately 44 dB LAeq during the daytime and 42 dB LAeq during the night-time. Allowing for 15 dB attenuation with an openable window, the

corresponding internal noise levels would meet the relevant guideline values for both daytime and night-time periods.

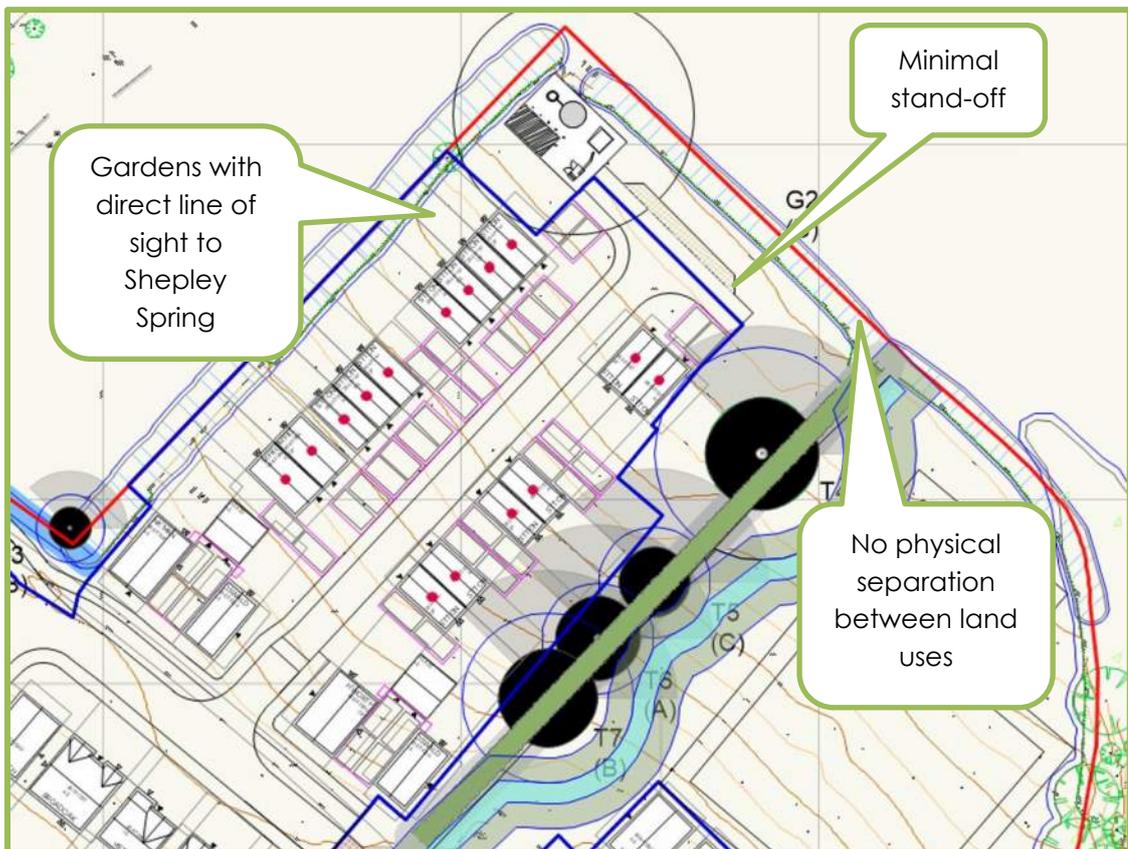
- 7.1.3 For external amenity areas, only the daytime scenario is applicable. BS8233:2014 recommends a guideline level of 50 dB LAeq,16hr, with an upper limit of 55 dB LAeq,16hr. Based on the modelled layout, the 50 dB criterion is achieved across all external amenity areas. Furthermore, the specific noise would not exceed the background noise level in gardens, due to screening offered by the intervening buildings.
- 7.1.4 Although the BS4142 numerical outcome suggests a potential for adverse effect, the contextual evidence demonstrates that the absolute noise levels are relatively low and comfortably within the guideline values of BS8233 and WHO. On this basis, the likelihood of a significant adverse impact is low, and any effects would be minor and manageable with the proposed mitigation.
- 7.1.5 The site layout has been designed to minimise noise exposure: all garden areas are positioned to the rear of dwellings, away from Shepley Spring; the separation distance between the northern boundary and the first row of dwellings has been increased to approximately 42 m; and a 4m bund/barrier is proposed along the shared boundary.
- 7.1.6 It should also be noted that existing residential properties to the north-west of the site, including associated gardens, already have a direct line of sight to Shepley Spring. It is unlikely that these properties benefit from acoustic fencing, upgraded glazing, or alternative ventilation systems.
- 7.1.7 However, based on the modelling of existing receptors, the introduction of the bund/barrier as part of this scheme is predicted to result in a reduction in noise levels associated with Shepley Spring. Noise levels at these existing receptors are expected to see a decrease of approximately 1–6 dB, depending on the receptor location and building façade assessed. This reduction would represent a noticeable improvement in the acoustic environment for the closest existing residents.
- 7.1.8 The proposed development would not introduce any noise-sensitive receptors closer to Shepley Spring than those already present. Accordingly, it is unlikely to impose additional or unreasonable constraints on the neighbouring business. This

is consistent with the Agent of Change principle, whereby the responsibility for managing noise impacts lies with the party introducing the new development.

7.1.9 To further safeguard the operations of the existing business, and in view of the exceedances above background noise levels, additional mitigation measures have been considered and are discussed in the following sections.

8 ACOUSTIC DESIGN PROCESS

8.1.1 Whilst the application is outline in nature, an early-stage indicative site layout was provided for the development site. This layout includes a number of gardens with a more direct line of site to the northern boundary of the site, and several properties being positioned closer to the site boundary, as illustrated in Drawing 5 below.



Drawing 5: Initial concept design: Northern Section, prior to advice regarding noise impacts

8.1.2 Following discussions between the Applicant, changes were brought forward, as presented in Drawing 6 below.



Drawing 6: Revised layout: Northern Section, following the good acoustic design process

- 8.1.3 The changes brought forward are considered to represent a positive demonstration of the 'good acoustic design' process.
- 8.1.4 The design team has worked collaboratively to accommodate the changes required for noise. Various concessions have been made across other disciplines, with the resultant scheme deemed to represent the best design that could realistically be achieved based on the constraints observed, ensuring appropriate noise levels are achieved across the development site.

8.1.5 Whilst the application is for outline, the principles that have been discussed and agreed above, will be implemented into the future design of the site.

9 MITIGATION MEASURES

9.1 Bedrooms and Living Rooms

9.1.1 As discussed in the preceding sections, guideline noise levels are achieved both externally and internally (with windows open) in relation to road traffic and sports pitch activity. However, due to the influence of industrial/commercial noise, it is recommended that additional design measures are incorporated for plots located towards the northern boundary of the site to further minimise any residual effects.

9.1.2 BS8233 and BS EN12354-3 provide equations for performing detailed noise break-in for composite facades and individual façade elements such as ventilators. The equations are shown below.

$$L_2 = L_{1,in} - R + 10 \times \text{Log}(S/V) + 10 \times \text{Log}(T) + 11$$

$$L_2 = L_{1,in} - D_{new} - 10 \times \text{Log}(V) + 10 \times \text{Log}(T) + 21$$

9.1.3 The equations have been followed, with the results summarised in Table 11 below. The calculation has been undertaken for the most exposed plots.

Table 11: Summary of Calculated Levels						
	Total Area / No. Vents	125Hz	250Hz	500 Hz	1kHz	2kHz
Glazing; Rw + Ctr 27 dB (e.g 4/12/4mm or equivalent)	2.5m ²	21	15	24	36	39
Acoustic Ventilation; Mechanical Ventilation with Heat Recovery	-	-	-	-	-	-
Composite Façade Attenuation	27 dB					
Summary of Calculated Noise Levels						
	Daytime (dB LAeq)	Night-time (dB LAeq)		Night-time (dB LAmax)		
External Noise Level	45	42		60		
Internal Noise Level	18	15		33		

- 9.1.4 The results demonstrate that the recommended glazing and ventilation scheme will comfortably achieve the internal guidance levels.
- 9.1.5 Further into the site, the noise levels will reduce and be less influenced by industrial/commercial noise associated with Shepley Spring, as can be seen in the attached figures and therefore acoustic ventilation will not be required.
- 9.1.6 The full recommendations are summarised as part of the Acoustic Design Statement in the following Section and are shown on a plot-by-plot basis on Figures 4 and 5.

9.2 Mitigation for Industrial/Commercial Noise

- 9.2.1 As shown within this report, without additional mitigation at the proposed development there is the potential for an adverse impact to arise from industrial/commercial noise associated with Shepley Spring, to the north of the site.
- 9.2.2 As discussed, a number of intrinsic mitigation measures have been introduced as part of the outline design process to reduce the noise levels from the adjacent site.
- 9.2.3 The maximum feasible amount of physical screening between the development and site is already outlined to reduce noise levels at the elevation of the closest buildings. Additionally, the standoff distance between the dwellings and the site boundary has been increased. Therefore, the only other feasible mitigation measure would be to introduce façade mitigation.
- 9.2.4 BS4142:2014+A1:2019 states the following:

'Where the initial estimate of the impact needs to be modified due to the context, take all pertinent factors in consideration, including the following...

... The sensitivity of the receptor and whether dwellings or other premises used for residential purposes will already incorporate design measures that secure good internal and/or outdoor acoustic conditions, such as:

- i) Façade insulation treatment;*
 - ii) Ventilation and/or cooling that will reduce the need to have windows open as to provide rapid or purge ventilation...'*
- 9.2.5 Whilst internal noise levels are already achieved without the provision of façade

mitigation, given the results of the BS4142 assessment, an alternative means of ventilation (in this case MVHR) will be provided for living rooms and bedrooms to the north of the site.

9.2.6 Therefore, with this mitigation implemented at the site, noise impact from the Shepley Spring site is considered to be reduced to a suitable level and any impact should reside at or below the 'LOAEL' in accordance with the NPSE and PPG Noise.

10 ACOUSTIC DESIGN STATEMENT

10.1 Introduction

10.1.1 In accordance with the ProPG: Planning and Noise, an Acoustic Design Statement has been prepared to supplement the noise assessment report.

10.1.2 The statement has been informed by the results presented in the previous sections of this report, and also based on the discussions, processes and limitations considered during the design of the site layout before submission of this planning application.

10.2 Internal Guidance Levels

10.2.1 The ProPG recommends where it is not considered practical to achieve the internal guidance levels with windows open, justification should be provided to the LPA setting out the reasons for this.

10.2.2 A bund/barrier is proposed along the northern edge of the site. Increasing the height of the barrier/bund further is unlikely to offer a significant reduction in noise levels at the facades of the proposed dwellings. The standoff between the dwellings and boundary site has also been increased, however increasing this further is likely to impact the economic viability of the site.

10.2.3 The only other means for reducing internal noise levels to an acceptable standard would be either through the reorientation of internal layouts (i.e., moving noise sensitive rooms away from the main noise sources) or through the use of enhanced glazing and an alternative means of ventilation.

10.2.4 Through discussions with the Applicant, it is understood that due to other design constraints, there are no approved group house type designs that would allow all bedrooms to be positioned on the screened side of the plot. It is therefore recommended that the most practical solution to achieve internal guidance

levels is through the reliance on some form of alternative ventilation in noise sensitive rooms that are affected.

- 10.2.5 Where limiting factors exist that make it impractical to achieve internal guidance levels with windows open, acoustic ventilation is considered a suitable solution that meets the good acoustic design test, as per Paragraph 2.33 to 2.34 of the ProPG, which states:

“It should be noted that the acoustic performance of the building envelope will be reduced in the event windows are opened for ventilation or cooling purposes, typically reducing the insulation to no more than 10 to 15 dB(A).

Most residents value the ability to open windows at will, for a variety of reasons, and LPAs should therefore normally request that designers principally aim, through the use of good acoustic design, to achieve the internal noise level guidelines in noise-sensitive rooms with windows open. Where internal noise levels are assessed with windows closed the justification for this should be included in the ADS.

Where the LPA accepts that there is a justification that the internal target noise levels can only be practically achieved with windows closed, which may be the case in urban areas and at sites adjacent to transportation noise sources, special care must be taken to design the accommodation so that it provides good standards of acoustics, ventilation and thermal comfort without unduly compromising other aspects of the living environment.

In such circumstances, internal noise levels can be assessed with windows closed but with any façade openings used to provide “whole dwelling ventilation” in accordance with Building Regulations Approved Document F (e.g., trickle ventilators) in the open position (see Supplementary Document 2). Furthermore, in this scenario the internal LAeq target noise levels should not generally be exceeded.”

- 10.2.6 It is felt that in this circumstance, with due consideration to the factors set out above, the use of an alternative means of ventilation is a suitable solution that meets the good acoustic design test.

10.3 Glazing and Ventilation Recommendation Summary

10.3.1 Table 12 summarises the recommendations for glazing and ventilation, also provided at Figures 4 and 5.

Table 12: Glazing and ventilation requirements summary		
Location	Glazing	Ventilation
Living rooms / bedrooms to the north of the site.	Rw + Ctr = 27dB (i.e., 4/12/4mm)	Mechanical Ventilation with Heat Recovery
<p>Notes: These recommendations apply to noise sensitive rooms (living rooms and bedrooms) with the applicable elevations shown on Figures 4 and 5. All unmarked facades have no specific requirement.</p> <p>The final glazing and ventilation design should be reviewed by an acoustician.</p>		

11 OVERHEATING

11.1.1 Building Regulations Approved Document Part O was published on 15th June 2022. Section 3 states the following in relation to noise:

“In locations where external noise may be an issue (for example, where the local planning authority considered external noise to be an issue at the planning stage), the overheating mitigation strategy should take account of the likelihood that windows will be closed during sleeping hours (11pm to 7am).

Windows are likely to be closed during sleeping hours if noise within bedrooms exceeds the following limits.

- a. 40 dB LAeq,T, averaged over 8 hours (between 11pm and 7am).
- b. 55 dB LAFmax, more than 10 times a night (between 11pm and 7am).

Where in-situ noise measurements are used as evidence that these limits are not exceeded measurements should be taken in accordance with the Association of Noise Consultants’ Measurement of Sound Level in Buildings with the overheating mitigation strategy in use.”

11.1.2 Whilst the document relates to Building Regulations, it has been considered within this assessment at the planning stage as the most appropriate guidance to follow to identify which elevations are likely to exceed the criteria outlined above. This is based on the measured and resulting modelled noise levels identified within this report.

11.1.3 With reference to Residential Design Guide on Acoustic Ventilation and Overheating ("the AVO Guide"), 13dB of attenuation from an open window should be assumed when evaluating the plots potentially exposed to levels in excess of the ADO criteria. This would therefore equate to the following external noise limits at the elevations of the plots in question:

- 40dB LAeq,T + 13dB attenuation = 53dB LAeq,T externally
- 55dB LAmax + 13dB attenuation = 68dB LAmax externally

11.1.4 Resultant noise levels are shown within the Sections above. Based on these modelled and measured levels, it is likely that all bedrooms will be below the noise criteria detailed within Approved Document Part O and can therefore rely on openable windows for overheating purposes.

12 CONCLUSION

12.1 Introduction

12.1.1 NJD Environmental Associates has undertaken a noise assessment for a proposed residential development on Land off Eastfield, Shepley.

12.2 Road Traffic Noise

12.2.1 Noise from road traffic is predicted to be below the BS8233 guideline values of 35 dB LAeq,16hr during the daytime and 30 dB LAeq,8hr and 45 dB LAmax during the night-time, once attenuation through an open window is taken into account. Consequently, no specific mitigation measures are required for road traffic noise across the site.

12.3 Sports Pitches

12.3.1 Noise from the neighbouring sports pitches is predicted to be below 35 dB LAeq,1hr during daytime operating hours, once attenuation through an open window is considered. Accordingly, internal noise levels for living rooms and bedrooms are expected to comply with daytime criteria.

12.4 BS4142 Assessment

- 12.4.1 The primary industrial and commercial sources affecting the site were identified as external building plant noise and yard activities at Shepley Spring, located to the north of the site.
- 12.4.2 Data logs and audio recordings were reviewed to identify representative periods for the external plant noise, with surrogate data applied for forklift and HGV activity.
- 12.4.3 During the design stage, recommendations were made to reduce exposure, including the provision of a 4m bund/barrier along the northern boundary, increased separation between the site boundary and the proposed dwellings, and consideration of building orientation.
- 12.4.4 Additional mitigation is recommended for plots along the northern edge, adjacent to Shepley Spring, in the form of mechanical ventilation. This would allow occupants to maintain thermal comfort without opening windows, even under worst-case noise conditions.
- 12.4.5 Noise break-in calculations have demonstrated suitable glazing and ventilation schemes, summarised in Table 12 and illustrated on Figures 4 and 5. Exact specifications will be confirmed at the detailed design/reserved matters stage.

12.5 Summary

- 12.5.1 In accordance with the NPSE, inclusive of the mitigation, noise from the industrial/commercial source will be at or below the LOAEL in accordance with the NPSE and PPG Noise.
- 12.5.2 The Acoustic Design Statement concluded that based on the site context and limitations, reasonable means have been taken to ensure the recommendations pass the good acoustic design test in accordance with the ProPG.
- 12.5.3 It is concluded that subject to the recommended mitigation measures being implemented and considered at the detailed design/reserved matters stage, noise should not be a prohibitive factor in the determination of this outline planning application.



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Company Registration No 10956987



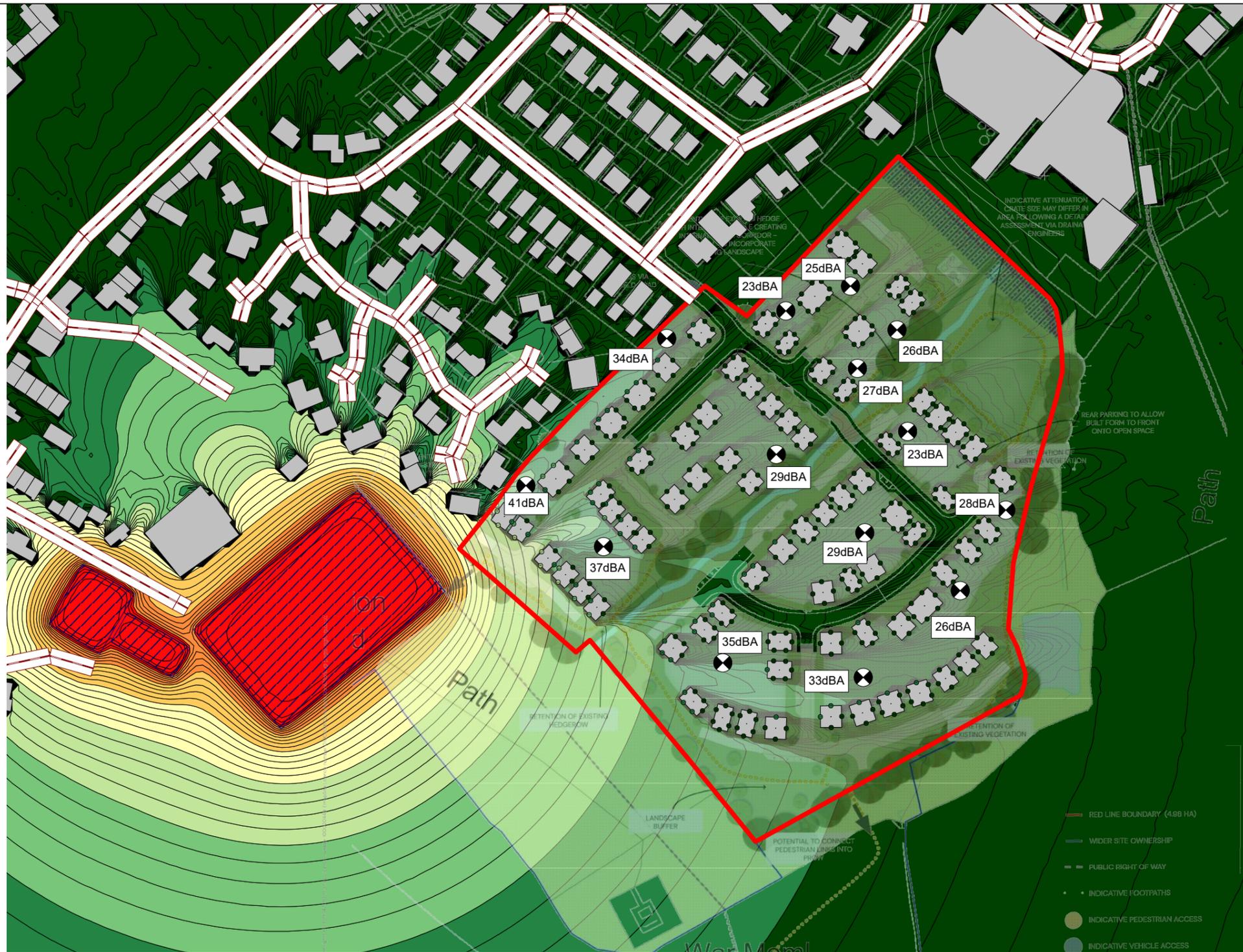
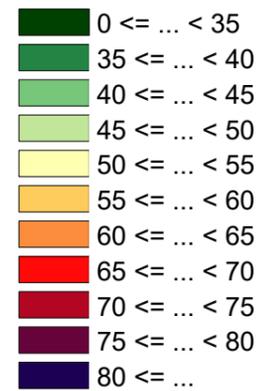


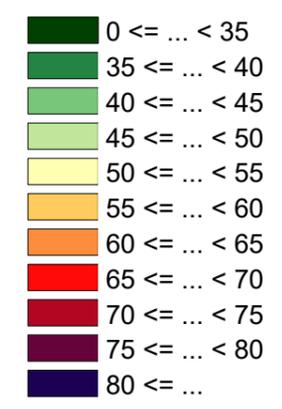
Figure 1:
Daytime LAeq,16hr - Sports Pitches
(1.5m receptor height)



Date:
September 2025



Figure 2:
Daytime Specific Noise Levels L_{Aeq}, 1hr
(1.5m receptor height)



Date:
September 2025

njd
Environmental Associates

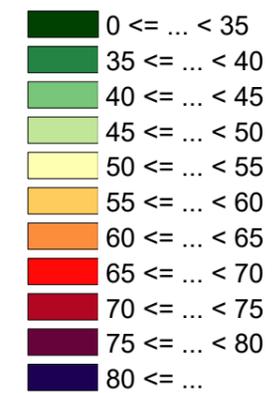
Client:
Banks Property

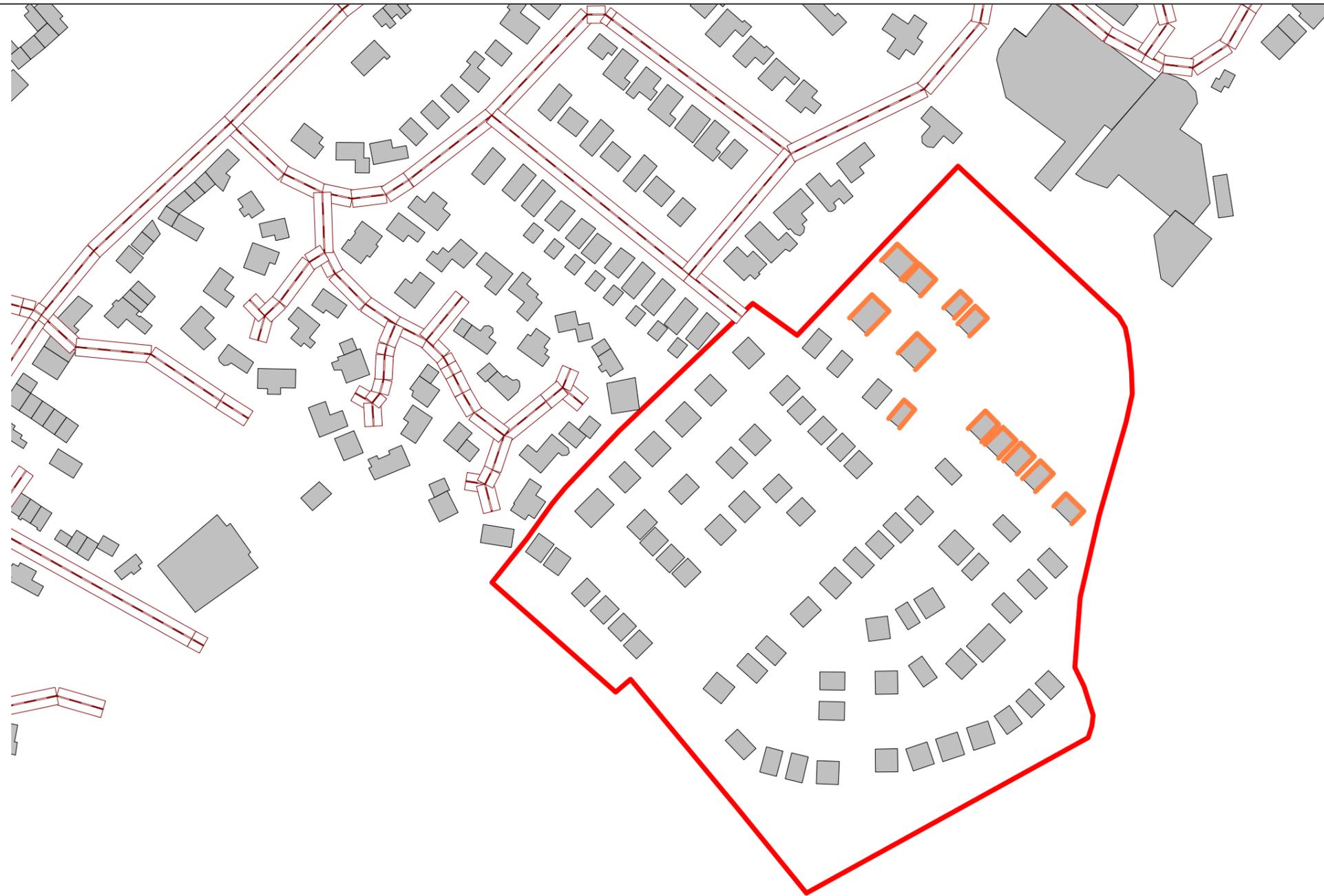
Job Title:
NJD25-0075
Land of Eastfield, Shepley

Drawn By:
S Griffith



Figure 3:
Night-time Specific Noise Levels LAeq, 15min
(4.0m receptor height)





Client:
Banks Property

Job Title:
NJD25-0075
Land of Eastfield, Shepley

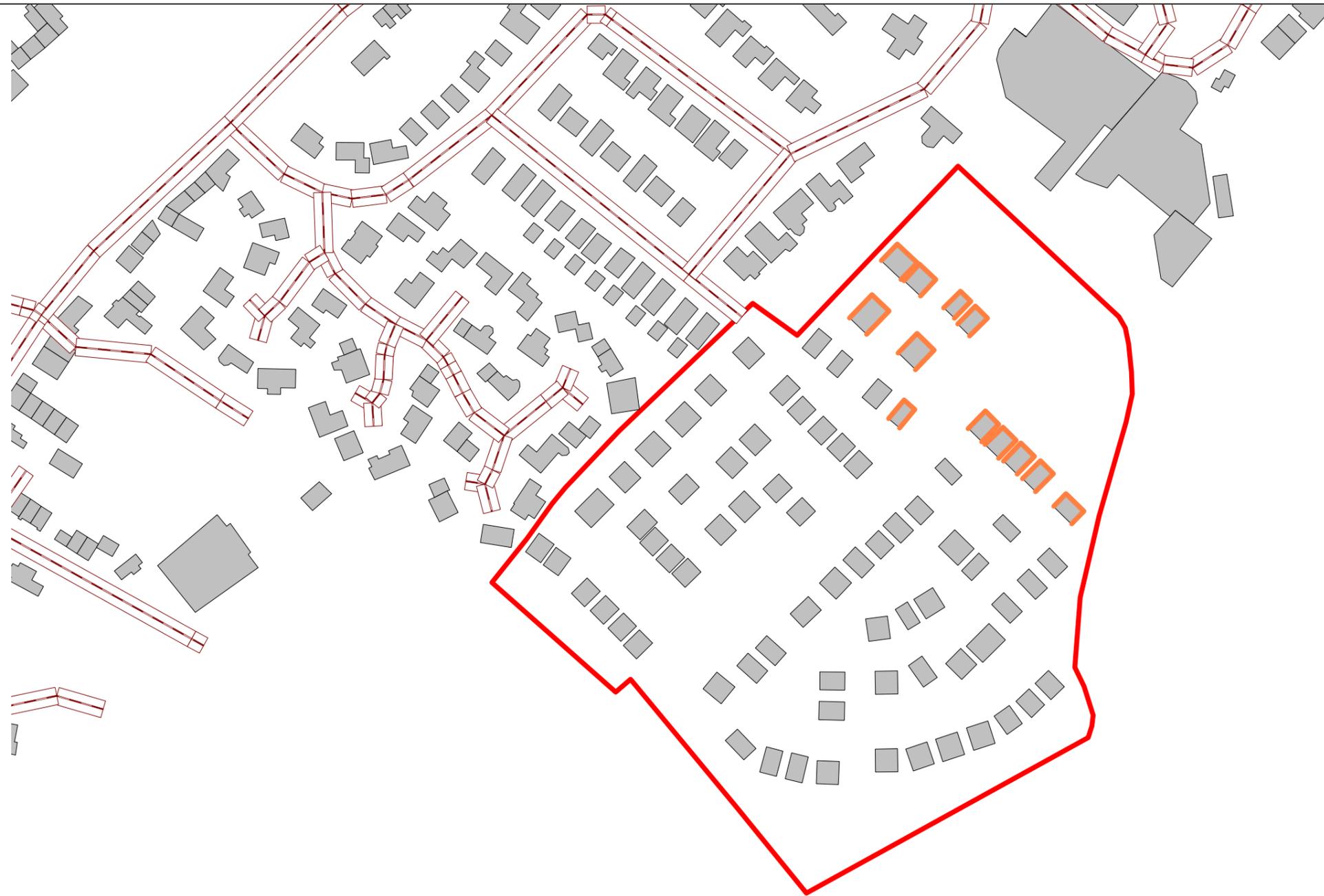
Figure 4:
Living Room Acoustic Mitigation

Drawn By:
S Griffith

Key:	Living Room Outline Mitigation:
—	Rw+Ctr 27dB (4/12/4mm) glazing; Mechanical Ventilation with Heat Recovery
Unmarked facades have no specific requirements	



Date:
September 2025



Client:
Banks Property

Job Title:
NJD25-0075
Land of Eastfield, Shepley

Figure 5:
Bedroom Acoustic Mitigation

Drawn By:
S Griffith

Key:	Living Room Outline Mitigation:
—	Rw+Ctr 27dB (4/12/4mm) glazing; Mechanical Ventilation with Heat Recovery
Unmarked facades have no specific requirements	



Date:
September 2025

Appendix 1: Noise Measurements

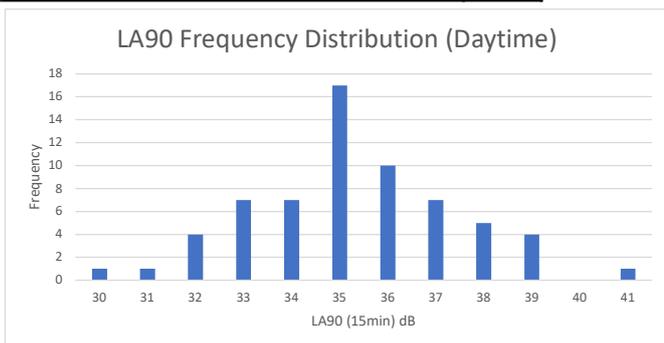
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Data type	Leq					
Weighting	A					
Unit	dB					
Start	19/06/2025 00:00:00					
End	24/06/2025 00:00:00					
Period	Daytime (LAeq)					
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Thu 19/06/2025	52.5	52.5	46.0	71.6	49.8	53.5
Fri 20/06/2025	52.7	52.7	42.8	71.3	47.4	53.6
Sat 21/06/2025	50.7	50.7	42.8	69.7	47.9	51.6
Sun 22/06/2025	50.2	50.2	44.8	67.0	47.1	52.0
Mon 23/06/2025						
Period	Night-time (LAeq)					
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Thu 19/06/2025	50.9	50.9	48.1	70.2	48.9	52.3
Fri 20/06/2025	48.3	48.3	45.1	62.9	46.0	50.0
Sat 21/06/2025	48.4	48.4	45.0	60.2	46.1	49.9
Sun 22/06/2025	50.5	50.5	45.9	72.0	47.0	52.2
Mon 23/06/2025						

File	20250619_142728_000000_1.CMG					
Location	ML2					
Data type	Leq					
Weighting	A					
Unit	dB					
Start	19/06/2025 00:00:00					
End	24/06/2025 00:00:00					
Period	Daytime (LAeq)					
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Thu 19/06/2025	41.9	41.9	29.7	69.2	33.7	43.9
Fri 20/06/2025	43.3	43.3	29.8	71.5	34.5	45.2
Sat 21/06/2025	41.9	41.9	29.3	65.9	33.8	44.5
Sun 22/06/2025	44.3	44.3	29.7	66.4	38.1	46.8
Mon 23/06/2025						
Period	Night-time (LAeq)					
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Thu 19/06/2025	37.7	37.7	26.4	63.8	29.1	39.5
Fri 20/06/2025	33.5	33.5	23.9	54.5	27.2	35.0
Sat 21/06/2025	38.4	38.4	22.8	66.8	28.4	41.2
Sun 22/06/2025	40.9	40.9	26.4	60.9	31.8	43.9
Mon 23/06/2025						

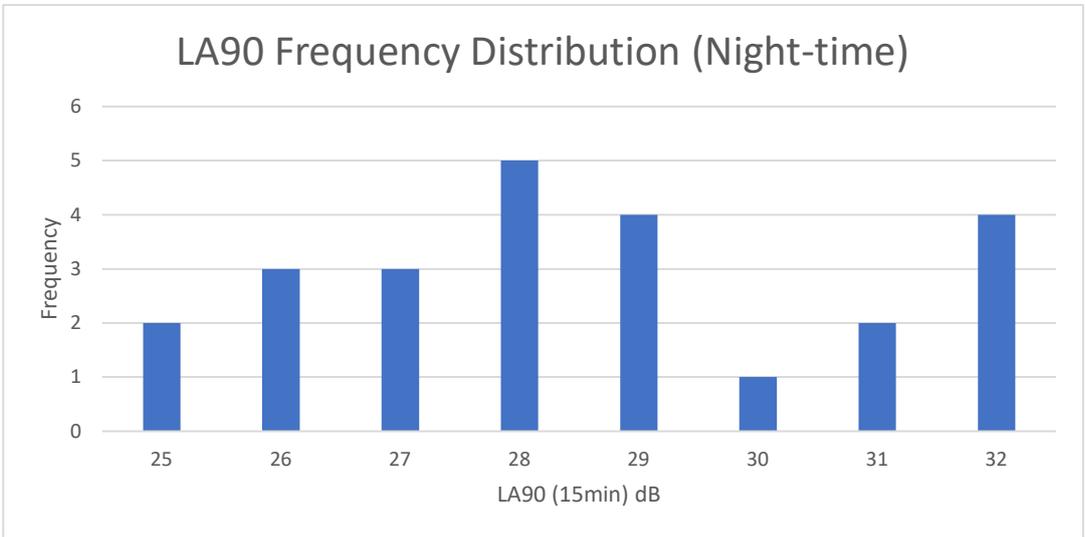
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Location	ML1			
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Weighting	A			
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End	23/06/2025 11:42:45			
	Leq specific	Lmin	Lmax	Duration cumulated
Source	dB	dB	dB	h:min:s
Night-time Plant	49.9	48.2	56.4	01:00:30
Daytime Plant	52.9	51.2	62.8	01:00:10

File	20250619_140155_000000_1.CMG	
Start	19/06/2025 14:01:55	
End	23/06/2025 11:42:45	
Source	Night-time Plant	Daytime Plant
	Leq specific	Leq specific
Location	dB	dB
ML1 [Oct 8Hz]	43.3	45.6
ML1 [Oct 16Hz]	49.1	51.2
ML1 [Oct 31.5Hz]	58.1	58.1
ML1 [Oct 63Hz]	68.4	63.7
ML1 [Oct 125Hz]	59.4	61.6
ML1 [Oct 250Hz]	55.2	58.5
ML1 [Oct 500Hz]	48.0	51.0
ML1 [Oct 1kHz]	37.1	42.2
ML1 [Oct 2kHz]	31.6	37.3
ML1 [Oct 4kHz]	28.9	34.3
ML1 [Oct 8kHz]	24.8	34.3
ML1 [Oct 16kHz]	19.5	20.8

ML2	Date/Time	P1 (A, Lin)	
		LA90	Rounded
	21/06/2025 07:00	32.3	32
	21/06/2025 07:15	31.9	32
	21/06/2025 07:30	32.6	33
	21/06/2025 07:45	33.1	33
	21/06/2025 08:00	32.7	33
	21/06/2025 08:15	33.2	33
	21/06/2025 08:30	33.1	33
	21/06/2025 08:45	34.2	34
	21/06/2025 09:00	34.9	35
	21/06/2025 09:15	33.5	34
	21/06/2025 09:30	34.8	35
	21/06/2025 09:45	34	34
	21/06/2025 10:00	35.2	35
	21/06/2025 10:15	36.4	36
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	21/06/2025 11:00	36.8	37
	21/06/2025 11:15	38.1	38
	21/06/2025 11:30	39	39
	21/06/2025 11:45	40.5	41
	21/06/2025 12:00	38.5	39
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	21/06/2025 16:15	35.1	35
	21/06/2025 16:30	35.3	35
	21/06/2025 16:45	35.2	35
	21/06/2025 17:00	34.7	35
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	21/06/2025 21:15	33.9	34
	21/06/2025 21:30	33.8	34
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	21/06/2025 22:15	31.8	32
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Modal Average		35	



ML2	Date/Time	P1 (A, Lin)	
		LA90	Rounded
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	20/06/2025 23:15	29.4	29
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	21/06/2025 00:15	27.9	28
	21/06/2025 00:30	28.2	28
	21/06/2025 00:45	28.1	28
	21/06/2025 01:00	28.4	28
	21/06/2025 01:15	28.7	29
	21/06/2025 01:30	28.4	28
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	21/06/2025 04:30		
	21/06/2025 04:45		
	21/06/2025 05:00		
	21/06/2025 05:15		
	21/06/2025 05:30		
	21/06/2025 05:45	31.3	31
	21/06/2025 06:00	31.6	32
	21/06/2025 06:15	31.6	32
	21/06/2025 06:30	31.8	32
	21/06/2025 06:45	32.3	32
Period Count	24		
Log Averages		28	
Modal Average		28	



LAmix analysis

Periods	1m	Rank	Level
		1st LAmix	70.2
Start	19/06/2025 23:00	5th LAmix	64.8
End	20/06/2025 06:59	10th LAmix	60.3
Location	ML1	15th LAmix	58.7
Weighting	A		
Data type	Lmax		
Unit	dB		
Period start	Lmax		
19/06/2025 23:00	50.4		
19/06/2025 23:01	50.3		
19/06/2025 23:02	50.6		
19/06/2025 23:03	53.6		
19/06/2025 23:04	53.4		
19/06/2025 23:05	51.3		
19/06/2025 23:06	50.3		
19/06/2025 23:07	56.3		
19/06/2025 23:08	52.9		
19/06/2025 23:09	52.8		
19/06/2025 23:10	53.8		
19/06/2025 23:11	50.5		
19/06/2025 23:12	51		
19/06/2025 23:13	53.6		
19/06/2025 23:14	53.7		
19/06/2025 23:15	58.6		
19/06/2025 23:16	50.6		
19/06/2025 23:17	50.4		
19/06/2025 23:18	49.9		
19/06/2025 23:19	49.6		
19/06/2025 23:20	50.5		
19/06/2025 23:21	50.6		
19/06/2025 23:22	53.7		
19/06/2025 23:23	55.1		
19/06/2025 23:24	53.1		
19/06/2025 23:25	50.6		
19/06/2025 23:26	53.6		
19/06/2025 23:27	53.1		
19/06/2025 23:28	56.2		
19/06/2025 23:29	50.6		
19/06/2025 23:30	51.5		
19/06/2025 23:31	51.1		
19/06/2025 23:32	51		
19/06/2025 23:33	50.9		
19/06/2025 23:34	53.3		
19/06/2025 23:35	53.5		
19/06/2025 23:36	50.9		
19/06/2025 23:37	50.2		
19/06/2025 23:38	53.1		
19/06/2025 23:39	53		
19/06/2025 23:40	50.8		
19/06/2025 23:41	50.1		
19/06/2025 23:42	50.8		
19/06/2025 23:43	50.4		
19/06/2025 23:44	50.7		
19/06/2025 23:45	50.7		
19/06/2025 23:46	50.6		
19/06/2025 23:47	53.1		
19/06/2025 23:48	52.9		
19/06/2025 23:49	52.8		
19/06/2025 23:50	50.8		
19/06/2025 23:51	50.5		
19/06/2025 23:52	53.2		
19/06/2025 23:53	53.4		
19/06/2025 23:54	53.2		
19/06/2025 23:55	49.8		
19/06/2025 23:56	50.1		
19/06/2025 23:57	49.9		
19/06/2025 23:58	49.9		
19/06/2025 23:59	52.9		

Periods	1m	Rank	Level
		1st LAmix	60.9
Start	22/06/2025 23:00	5th LAmix	58.3
End	23/06/2025 06:59	10th LAmix	54.2
Location	ML2	15th LAmix	53.3
Weighting	A		
Data type	Lmax		
Unit	dB		
Period start	Lmax		
22/06/2025 23:00	41.3		
22/06/2025 23:01	48.1		
22/06/2025 23:02	44.6		
22/06/2025 23:03	37.7		
22/06/2025 23:04	43.5		
22/06/2025 23:05	43.2		
22/06/2025 23:06	40.6		
22/06/2025 23:07	38.7		
22/06/2025 23:08	46.5		
22/06/2025 23:09	39.8		
22/06/2025 23:10	40.5		
22/06/2025 23:11	43.5		
22/06/2025 23:12	40.6		
22/06/2025 23:13	41		
22/06/2025 23:14	40.3		
22/06/2025 23:15	43		
22/06/2025 23:16	43.7		
22/06/2025 23:17	39.3		
22/06/2025 23:18	46.4		
22/06/2025 23:19	48.8		
22/06/2025 23:20	43.2		
22/06/2025 23:21	49.5		
22/06/2025 23:22	38.3		
22/06/2025 23:23	43.5		
22/06/2025 23:24	44.2		
22/06/2025 23:25	43.7		
22/06/2025 23:26	41		
22/06/2025 23:27	44.9		
22/06/2025 23:28	39.7		
22/06/2025 23:29	35.7		
22/06/2025 23:30	37.9		
22/06/2025 23:31	37.3		
22/06/2025 23:32	36.3		
22/06/2025 23:33	35.2		
22/06/2025 23:34	42.4		
22/06/2025 23:35	33.2		
22/06/2025 23:36	36.5		
22/06/2025 23:37	42.8		
22/06/2025 23:38	31.9		
22/06/2025 23:39	39.3		
22/06/2025 23:40	39.2		
22/06/2025 23:41	36.2		
22/06/2025 23:42	35.3		
22/06/2025 23:43	34.9		
22/06/2025 23:44	40.1		
22/06/2025 23:45	33.7		
22/06/2025 23:46	40.7		
22/06/2025 23:47	36.8		
22/06/2025 23:48	35.8		
22/06/2025 23:49	37		
22/06/2025 23:50	34.4		
22/06/2025 23:51	39.3		
22/06/2025 23:52	42		
22/06/2025 23:53	39		
22/06/2025 23:54	38.3		
22/06/2025 23:55	34.8		
22/06/2025 23:56	40.4		
22/06/2025 23:57	37.2		
22/06/2025 23:58	44.4		
22/06/2025 23:59	44.9		

20/06/2025 00:00	53
20/06/2025 00:01	54.4
20/06/2025 00:02	51.3
20/06/2025 00:03	52.7
20/06/2025 00:04	53.2
20/06/2025 00:05	53.5
20/06/2025 00:06	53.6
20/06/2025 00:07	54.6
20/06/2025 00:08	49.8
20/06/2025 00:09	49.6
20/06/2025 00:10	50.1
20/06/2025 00:11	50.4
20/06/2025 00:12	50.7
20/06/2025 00:13	52.7
20/06/2025 00:14	54.7
20/06/2025 00:15	53.4
20/06/2025 00:16	53.5
20/06/2025 00:17	50.2
20/06/2025 00:18	52.9
20/06/2025 00:19	52.8
20/06/2025 00:20	50.2
20/06/2025 00:21	49.7
20/06/2025 00:22	50.5
20/06/2025 00:23	49.8
20/06/2025 00:24	51
20/06/2025 00:25	49.8
20/06/2025 00:26	50.2
20/06/2025 00:27	49.9
20/06/2025 00:28	52.1
20/06/2025 00:29	52.7
20/06/2025 00:30	52.7
20/06/2025 00:31	50.6
20/06/2025 00:32	51.4
20/06/2025 00:33	52.6
20/06/2025 00:34	53.5
20/06/2025 00:35	50.1
20/06/2025 00:36	49.9
20/06/2025 00:37	49.9
20/06/2025 00:38	49.5
20/06/2025 00:39	51.5
20/06/2025 00:40	49.8
20/06/2025 00:41	49.8
20/06/2025 00:42	49.7
20/06/2025 00:43	49.8
20/06/2025 00:44	50
20/06/2025 00:45	49.8
20/06/2025 00:46	58.8
20/06/2025 00:47	49.7
20/06/2025 00:48	52.9
20/06/2025 00:49	52.8
20/06/2025 00:50	50.3
20/06/2025 00:51	50.2
20/06/2025 00:52	50.3
20/06/2025 00:53	50
20/06/2025 00:54	50.2
20/06/2025 00:55	51.8
20/06/2025 00:56	53
20/06/2025 00:57	52.7
20/06/2025 00:58	55
20/06/2025 00:59	49.9
20/06/2025 01:00	52.7
20/06/2025 01:01	53
20/06/2025 01:02	49.6
20/06/2025 01:03	50.2
20/06/2025 01:04	50.3
20/06/2025 01:05	50.8
20/06/2025 01:06	51.1
20/06/2025 01:07	50.3
20/06/2025 01:08	50.2
20/06/2025 01:09	50
20/06/2025 01:10	50.3

23/06/2025 00:00	39.6
23/06/2025 00:01	38.7
23/06/2025 00:02	42.5
23/06/2025 00:03	43.8
23/06/2025 00:04	46.4
23/06/2025 00:05	44.4
23/06/2025 00:06	44.3
23/06/2025 00:07	45.7
23/06/2025 00:08	45.6
23/06/2025 00:09	46
23/06/2025 00:10	41.3
23/06/2025 00:11	36.5
23/06/2025 00:12	43.3
23/06/2025 00:13	39.3
23/06/2025 00:14	42.2
23/06/2025 00:15	44.6
23/06/2025 00:16	57.2
23/06/2025 00:17	58.3
23/06/2025 00:18	41.7
23/06/2025 00:19	53.3
23/06/2025 00:20	51.4
23/06/2025 00:21	46.9
23/06/2025 00:22	40.7
23/06/2025 00:23	44.7
23/06/2025 00:24	44.6
23/06/2025 00:25	39.9
23/06/2025 00:26	42.7
23/06/2025 00:27	45.2
23/06/2025 00:28	46.5
23/06/2025 00:29	42
23/06/2025 00:30	50.8
23/06/2025 00:31	45.2
23/06/2025 00:32	42.6
23/06/2025 00:33	40.8
23/06/2025 00:34	40.9
23/06/2025 00:35	38.5
23/06/2025 00:36	40.6
23/06/2025 00:37	43.3
23/06/2025 00:38	44.2
23/06/2025 00:39	44.4
23/06/2025 00:40	40.5
23/06/2025 00:41	39.5
23/06/2025 00:42	43.3
23/06/2025 00:43	46.6
23/06/2025 00:44	44.3
23/06/2025 00:45	38.5
23/06/2025 00:46	44.4
23/06/2025 00:47	45.7
23/06/2025 00:48	41.3
23/06/2025 00:49	42.6
23/06/2025 00:50	47.5
23/06/2025 00:51	39.2
23/06/2025 00:52	43.8
23/06/2025 00:53	51.6
23/06/2025 00:54	46.2
23/06/2025 00:55	41.9
23/06/2025 00:56	46.2
23/06/2025 00:57	43.9
23/06/2025 00:58	46.4
23/06/2025 00:59	38.5
23/06/2025 01:00	38.8
23/06/2025 01:01	42
23/06/2025 01:02	40.2
23/06/2025 01:03	
23/06/2025 01:04	
23/06/2025 01:05	
23/06/2025 01:06	
23/06/2025 01:07	
23/06/2025 01:08	
23/06/2025 01:09	
23/06/2025 01:10	

20/06/2025 01:11	53.6
20/06/2025 01:12	52.6
20/06/2025 01:13	50.9
20/06/2025 01:14	50
20/06/2025 01:15	50.4
20/06/2025 01:16	52.7
20/06/2025 01:17	53.1
20/06/2025 01:18	49.7
20/06/2025 01:19	50
20/06/2025 01:20	49.6
20/06/2025 01:21	53
20/06/2025 01:22	53
20/06/2025 01:23	50.5
20/06/2025 01:24	50.4
20/06/2025 01:25	50.4
20/06/2025 01:26	50
20/06/2025 01:27	50.1
20/06/2025 01:28	49.8
20/06/2025 01:29	49.8
20/06/2025 01:30	49.8
20/06/2025 01:31	53.1
20/06/2025 01:32	52.8
20/06/2025 01:33	50.7
20/06/2025 01:34	49.9
20/06/2025 01:35	50.8
20/06/2025 01:36	52.8
20/06/2025 01:37	54.9
20/06/2025 01:38	49.2
20/06/2025 01:39	51
20/06/2025 01:40	49.9
20/06/2025 01:41	53.6
20/06/2025 01:42	49.5
20/06/2025 01:43	49.6
20/06/2025 01:44	49.8
20/06/2025 01:45	49.8
20/06/2025 01:46	50.3
20/06/2025 01:47	53
20/06/2025 01:48	54.2
20/06/2025 01:49	50
20/06/2025 01:50	52.9
20/06/2025 01:51	50.1
20/06/2025 01:52	50.3
20/06/2025 01:53	50.1
20/06/2025 01:54	50.3
20/06/2025 01:55	50.2
20/06/2025 01:56	49.6
20/06/2025 01:57	52.3
20/06/2025 01:58	53
20/06/2025 01:59	52.7
20/06/2025 02:00	49.7
20/06/2025 02:01	50.3
20/06/2025 02:02	53.2
20/06/2025 02:03	53
20/06/2025 02:04	50
20/06/2025 02:05	50.2
20/06/2025 02:06	49.7
20/06/2025 02:07	49.9
20/06/2025 02:08	51.3
20/06/2025 02:09	55.7
20/06/2025 02:10	49.7
20/06/2025 02:11	50.5
20/06/2025 02:12	50.1
20/06/2025 02:13	53.5
20/06/2025 02:14	52.9
20/06/2025 02:15	50.2
20/06/2025 02:16	49.7
20/06/2025 02:17	49.6
20/06/2025 02:18	49.3
20/06/2025 02:19	49.7
20/06/2025 02:20	49.6
20/06/2025 02:21	49.9

23/06/2025 01:11	
23/06/2025 01:12	
23/06/2025 01:13	
23/06/2025 01:14	38.5
23/06/2025 01:15	39
23/06/2025 01:16	36.2
23/06/2025 01:17	36
23/06/2025 01:18	33.4
23/06/2025 01:19	34.8
23/06/2025 01:20	36.6
23/06/2025 01:21	37.2
23/06/2025 01:22	
23/06/2025 01:23	
23/06/2025 01:24	
23/06/2025 01:25	
23/06/2025 01:26	
23/06/2025 01:27	37.7
23/06/2025 01:28	39.9
23/06/2025 01:29	36.1
23/06/2025 01:30	39.5
23/06/2025 01:31	60.9
23/06/2025 01:32	43.2
23/06/2025 01:33	36.6
23/06/2025 01:34	36.7
23/06/2025 01:35	35.5
23/06/2025 01:36	
23/06/2025 01:37	
23/06/2025 01:38	
23/06/2025 01:39	
23/06/2025 01:40	42.2
23/06/2025 01:41	38.6
23/06/2025 01:42	38.6
23/06/2025 01:43	44.7
23/06/2025 01:44	46.5
23/06/2025 01:45	38.6
23/06/2025 01:46	37.6
23/06/2025 01:47	41.3
23/06/2025 01:48	33.6
23/06/2025 01:49	53.4
23/06/2025 01:50	50
23/06/2025 01:51	35.7
23/06/2025 01:52	34.7
23/06/2025 01:53	39.2
23/06/2025 01:54	35.5
23/06/2025 01:55	39.3
23/06/2025 01:56	38.6
23/06/2025 01:57	37.6
23/06/2025 01:58	37.6
23/06/2025 01:59	42
23/06/2025 02:00	41.2
23/06/2025 02:01	37.5
23/06/2025 02:02	32.2
23/06/2025 02:03	34.2
23/06/2025 02:04	39.3
23/06/2025 02:05	37
23/06/2025 02:06	41.6
23/06/2025 02:07	42.7
23/06/2025 02:08	41.6
23/06/2025 02:09	42.2
23/06/2025 02:10	36
23/06/2025 02:11	35.1
23/06/2025 02:12	37.5
23/06/2025 02:13	31.8
23/06/2025 02:14	34.2
23/06/2025 02:15	39.2
23/06/2025 02:16	36.9
23/06/2025 02:17	34.8
23/06/2025 02:18	40
23/06/2025 02:19	40.4
23/06/2025 02:20	33.3
23/06/2025 02:21	41.3

20/06/2025 02:22	49.8	23/06/2025 02:22	32.4
20/06/2025 02:23	50.1	23/06/2025 02:23	35.5
20/06/2025 02:24	49.8	23/06/2025 02:24	40.7
20/06/2025 02:25	52.3	23/06/2025 02:25	40.7
20/06/2025 02:26	49.9	23/06/2025 02:26	42.5
20/06/2025 02:27	49.8	23/06/2025 02:27	41.7
20/06/2025 02:28	49.8	23/06/2025 02:28	38.8
20/06/2025 02:29	49.7	23/06/2025 02:29	39.1
20/06/2025 02:30	52.8	23/06/2025 02:30	34.6
20/06/2025 02:31	53.1	23/06/2025 02:31	36
20/06/2025 02:32	52.3	23/06/2025 02:32	32.6
20/06/2025 02:33	49.8	23/06/2025 02:33	40.9
20/06/2025 02:34	53.2	23/06/2025 02:34	44.2
20/06/2025 02:35	53	23/06/2025 02:35	40.2
20/06/2025 02:36	52.4	23/06/2025 02:36	38.5
20/06/2025 02:37	49.9	23/06/2025 02:37	39.8
20/06/2025 02:38	49.9	23/06/2025 02:38	38.5
20/06/2025 02:39	49.8	23/06/2025 02:39	40.1
20/06/2025 02:40	50.1	23/06/2025 02:40	39.2
20/06/2025 02:41	49.8	23/06/2025 02:41	34.9
20/06/2025 02:42	56.4	23/06/2025 02:42	34.9
20/06/2025 02:43	50	23/06/2025 02:43	41.9
20/06/2025 02:44	50.8	23/06/2025 02:44	43.1
20/06/2025 02:45	52.4	23/06/2025 02:45	38.6
20/06/2025 02:46	54.5	23/06/2025 02:46	47
20/06/2025 02:47	50.6	23/06/2025 02:47	46.4
20/06/2025 02:48	53.2	23/06/2025 02:48	40.6
20/06/2025 02:49	52.8	23/06/2025 02:49	41.5
20/06/2025 02:50	49.9	23/06/2025 02:50	34.9
20/06/2025 02:51	49.9	23/06/2025 02:51	39.9
20/06/2025 02:52	49.7	23/06/2025 02:52	45.8
20/06/2025 02:53	49.9	23/06/2025 02:53	43.5
20/06/2025 02:54	53	23/06/2025 02:54	41.7
20/06/2025 02:55	52.9	23/06/2025 02:55	43.4
20/06/2025 02:56	49.8	23/06/2025 02:56	43.9
20/06/2025 02:57	49.7	23/06/2025 02:57	43.7
20/06/2025 02:58	49.8	23/06/2025 02:58	43.2
20/06/2025 02:59	49.8	23/06/2025 02:59	39.7
20/06/2025 03:00	50.1	23/06/2025 03:00	43.5
20/06/2025 03:01	50.2	23/06/2025 03:01	47.4
20/06/2025 03:02	55.9	23/06/2025 03:02	45.2
20/06/2025 03:03	49.9	23/06/2025 03:03	47.6
20/06/2025 03:04	50.6	23/06/2025 03:04	48.3
20/06/2025 03:05	54.6	23/06/2025 03:05	45.8
20/06/2025 03:06	49.9	23/06/2025 03:06	43
20/06/2025 03:07	49.6	23/06/2025 03:07	40.3
20/06/2025 03:08	49.9	23/06/2025 03:08	41.9
20/06/2025 03:09	49.6	23/06/2025 03:09	43.8
20/06/2025 03:10	49.7	23/06/2025 03:10	44.6
20/06/2025 03:11	49.8	23/06/2025 03:11	44
20/06/2025 03:12	49.8	23/06/2025 03:12	38.5
20/06/2025 03:13	50	23/06/2025 03:13	
20/06/2025 03:14	49.9	23/06/2025 03:14	
20/06/2025 03:15	49.6	23/06/2025 03:15	39.1
20/06/2025 03:16	49.7	23/06/2025 03:16	46.1
20/06/2025 03:17	50	23/06/2025 03:17	47.3
20/06/2025 03:18	50	23/06/2025 03:18	42.9
20/06/2025 03:19	49.8	23/06/2025 03:19	42
20/06/2025 03:20	50	23/06/2025 03:20	41.8
20/06/2025 03:21	49.7	23/06/2025 03:21	41.4
20/06/2025 03:22	50.2	23/06/2025 03:22	42.3
20/06/2025 03:23	49.8	23/06/2025 03:23	43.1
20/06/2025 03:24	53.2	23/06/2025 03:24	46.8
20/06/2025 03:25	52.8	23/06/2025 03:25	41.9
20/06/2025 03:26	49.8	23/06/2025 03:26	41.3
20/06/2025 03:27	49.9	23/06/2025 03:27	41.2
20/06/2025 03:28	49.8	23/06/2025 03:28	35
20/06/2025 03:29	49.9	23/06/2025 03:29	35.6
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20/06/2025 03:31	50.6	23/06/2025 03:31	41.2
20/06/2025 03:32	50.1	23/06/2025 03:32	40.6

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20/06/2025 03:34	50.4	23/06/2025 03:34	54.5
20/06/2025 03:35	50.2	23/06/2025 03:35	42.7
20/06/2025 03:36	50.8	23/06/2025 03:36	46
20/06/2025 03:37	50.4	23/06/2025 03:37	40.6
20/06/2025 03:38	53.4	23/06/2025 03:38	47.6
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20/06/2025 03:42	52.3	23/06/2025 03:42	42.1
20/06/2025 03:43	51.2	23/06/2025 03:43	42.6
20/06/2025 03:44	52.7	23/06/2025 03:44	45.9
20/06/2025 03:45	55.8	23/06/2025 03:45	
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20/06/2025 03:48	52.4	23/06/2025 03:48	
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20/06/2025 03:51	52	23/06/2025 03:51	
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20/06/2025 03:53	52.3	23/06/2025 03:53	
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20/06/2025 03:55	51.7	23/06/2025 03:55	
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20/06/2025 03:57	52.2	23/06/2025 03:57	
20/06/2025 03:58	52.1	23/06/2025 03:58	
20/06/2025 03:59	53.9	23/06/2025 03:59	
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20/06/2025 04:02	52.9	23/06/2025 04:02	
20/06/2025 04:03	52.3	23/06/2025 04:03	
20/06/2025 04:04	52.2	23/06/2025 04:04	
20/06/2025 04:05	52.4	23/06/2025 04:05	
20/06/2025 04:06	51.7	23/06/2025 04:06	
20/06/2025 04:07	52.3	23/06/2025 04:07	
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20/06/2025 04:19	50.3	23/06/2025 04:19	
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20/06/2025 04:23	53.2	23/06/2025 04:23	
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20/06/2025 04:25	50.5	23/06/2025 04:25	
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20/06/2025 04:33	54.6	23/06/2025 04:33	
20/06/2025 04:34	55.1	23/06/2025 04:34	
20/06/2025 04:35	52.7	23/06/2025 04:35	45.1
20/06/2025 04:36	50.7	23/06/2025 04:36	47.1
20/06/2025 04:37	50.9	23/06/2025 04:37	43.6
20/06/2025 04:38	51	23/06/2025 04:38	44.6
20/06/2025 04:39	51.8	23/06/2025 04:39	43.1
20/06/2025 04:40	51.1	23/06/2025 04:40	40.7
20/06/2025 04:41	51.1	23/06/2025 04:41	52.8
20/06/2025 04:42	50.9	23/06/2025 04:42	53.6
20/06/2025 04:43	51.1	23/06/2025 04:43	44.2

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20/06/2025 04:45	
20/06/2025 04:46	
20/06/2025 04:47	50.3
20/06/2025 04:48	53.2
20/06/2025 04:49	50.9
20/06/2025 04:50	52.4
20/06/2025 04:51	53.4
20/06/2025 04:52	57.5
20/06/2025 04:53	54.8
20/06/2025 04:54	55
20/06/2025 04:55	58.7
20/06/2025 04:56	59.2
20/06/2025 04:57	52.4
20/06/2025 04:58	52.2
20/06/2025 04:59	55.3
20/06/2025 05:00	54.5
20/06/2025 05:01	52.2
20/06/2025 05:02	52.5
20/06/2025 05:03	51.3
20/06/2025 05:04	55
20/06/2025 05:05	53.6
20/06/2025 05:06	54.3
20/06/2025 05:07	52.8
20/06/2025 05:08	52.3
20/06/2025 05:09	53.2
20/06/2025 05:10	53.1
20/06/2025 05:11	53.7
20/06/2025 05:12	55.8
20/06/2025 05:13	64.1
20/06/2025 05:14	64.8
20/06/2025 05:15	58.3
20/06/2025 05:16	56.7
20/06/2025 05:17	57.4
20/06/2025 05:18	52
20/06/2025 05:19	51.9
20/06/2025 05:20	52
20/06/2025 05:21	53.1
20/06/2025 05:22	51.7
20/06/2025 05:23	52.8
20/06/2025 05:24	51.7
20/06/2025 05:25	52.6
20/06/2025 05:26	50.8
20/06/2025 05:27	52.1
20/06/2025 05:28	50.6
20/06/2025 05:29	52.7
20/06/2025 05:30	55.1
20/06/2025 05:31	55.4
20/06/2025 05:32	54.6
20/06/2025 05:33	57.1
20/06/2025 05:34	53.9
20/06/2025 05:35	54.8
20/06/2025 05:36	53.2
20/06/2025 05:37	54.9
20/06/2025 05:38	54.6
20/06/2025 05:39	52.3
20/06/2025 05:40	55.4
20/06/2025 05:41	51.9
20/06/2025 05:42	52.2
20/06/2025 05:43	51.4
20/06/2025 05:44	53.1
20/06/2025 05:45	68.8
20/06/2025 05:46	52.9
20/06/2025 05:47	55.8
20/06/2025 05:48	70.2
20/06/2025 05:49	64.5
20/06/2025 05:50	54.8
20/06/2025 05:51	60.9
20/06/2025 05:52	59.4
20/06/2025 05:53	61.2
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23/06/2025 04:44	47.3
23/06/2025 04:45	42.7
23/06/2025 04:46	45.1
23/06/2025 04:47	48.9
23/06/2025 04:48	57.5
23/06/2025 04:49	59.1
23/06/2025 04:50	59.9
23/06/2025 04:51	47
23/06/2025 04:52	48.8
23/06/2025 04:53	52.7
23/06/2025 04:54	42
23/06/2025 04:55	41.5
23/06/2025 04:56	46
23/06/2025 04:57	43.7
23/06/2025 04:58	49.5
23/06/2025 04:59	46.9
23/06/2025 05:00	44.9
23/06/2025 05:01	45
23/06/2025 05:02	49.6
23/06/2025 05:03	52.1
23/06/2025 05:04	44.5
23/06/2025 05:05	45.2
23/06/2025 05:06	51.9
23/06/2025 05:07	53.8
23/06/2025 05:08	50.8
23/06/2025 05:09	50.7
23/06/2025 05:10	44
23/06/2025 05:11	44.3
23/06/2025 05:12	49.2
23/06/2025 05:13	47.2
23/06/2025 05:14	50.8
23/06/2025 05:15	52.3
23/06/2025 05:16	45.6
23/06/2025 05:17	44.2
23/06/2025 05:18	45.6
23/06/2025 05:19	50.4
23/06/2025 05:20	49.9
23/06/2025 05:21	55.3
23/06/2025 05:22	47.1
23/06/2025 05:23	49.9
23/06/2025 05:24	41.9
23/06/2025 05:25	45.7
23/06/2025 05:26	47.8
23/06/2025 05:27	47.8
23/06/2025 05:28	46.7
23/06/2025 05:29	47.5
23/06/2025 05:30	48.8
23/06/2025 05:31	47.7
23/06/2025 05:32	49.8
23/06/2025 05:33	46.1
23/06/2025 05:34	49.3
23/06/2025 05:35	45.5
23/06/2025 05:36	48.7
23/06/2025 05:37	45.4
23/06/2025 05:38	49
23/06/2025 05:39	43.4
23/06/2025 05:40	47
23/06/2025 05:41	48.6
23/06/2025 05:42	50
23/06/2025 05:43	49.8
23/06/2025 05:44	51.8
23/06/2025 05:45	54.2
23/06/2025 05:46	50.2
23/06/2025 05:47	48.4
23/06/2025 05:48	47.1
23/06/2025 05:49	51.2
23/06/2025 05:50	59.8
23/06/2025 05:51	49.2
23/06/2025 05:52	53.8
23/06/2025 05:53	53.3
23/06/2025 05:54	48.1

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20/06/2025 05:56	54.9
20/06/2025 05:57	66.8
20/06/2025 05:58	64.8
20/06/2025 05:59	56.4
20/06/2025 06:00	52.5
20/06/2025 06:01	52.6
20/06/2025 06:02	54.4
20/06/2025 06:03	55.1
20/06/2025 06:04	57.2
20/06/2025 06:05	57.4
20/06/2025 06:06	53.3
20/06/2025 06:07	52.9
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20/06/2025 06:10	50.7
20/06/2025 06:11	52.1
20/06/2025 06:12	50.6
20/06/2025 06:13	58.9
20/06/2025 06:16	52.2
20/06/2025 06:17	55.8
20/06/2025 06:20	58.3
20/06/2025 06:21	55
20/06/2025 06:22	56
20/06/2025 06:23	54.5
20/06/2025 06:24	52.3
20/06/2025 06:25	52.2
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20/06/2025 06:27	53.3
20/06/2025 06:28	54.5
20/06/2025 06:29	54
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20/06/2025 06:32	54.5
20/06/2025 06:33	56.3
20/06/2025 06:34	54.5
20/06/2025 06:35	50.5
20/06/2025 06:36	53.6
20/06/2025 06:37	53
20/06/2025 06:38	55.4
20/06/2025 06:39	55.3
20/06/2025 06:40	53.7
20/06/2025 06:41	53.4
20/06/2025 06:42	52.4
20/06/2025 06:43	53.2
20/06/2025 06:44	51
20/06/2025 06:45	56.9
20/06/2025 06:46	57
20/06/2025 06:47	58.7
20/06/2025 06:48	50.2
20/06/2025 06:49	52.2
20/06/2025 06:50	54.2
20/06/2025 06:51	56.4
20/06/2025 06:52	51.1
20/06/2025 06:53	60.3
20/06/2025 06:54	52.1
20/06/2025 06:55	55.1
20/06/2025 06:56	54.1
20/06/2025 06:57	49.7
20/06/2025 06:58	56.1
20/06/2025 06:59	55.3
Overall	83.7

23/06/2025 05:55	50.9
23/06/2025 05:56	48.5
23/06/2025 05:57	44.1
23/06/2025 05:58	44.1
23/06/2025 05:59	43.9
23/06/2025 06:00	42.8
23/06/2025 06:01	41.7
23/06/2025 06:02	42.6
23/06/2025 06:03	45.3
23/06/2025 06:04	40.5
23/06/2025 06:05	
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23/06/2025 06:57	
23/06/2025 06:58	
23/06/2025 06:59	
Overall	60.9