

NOISE IMPACT ASSESSMENT

Proposed Battery Energy Storage System

Land off Phoenix Place, Jarrow

Issue Date: 16 October 2025

QUALITY ASSURANCE & REPORT INFORMATION

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Project: Proposed Battery Energy Storage System

Client: Johnson Mowat Planning Limited

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EXECUTIVE SUMMARY

The results of the Assessment shows that the rated level of noise for the proposed BESS achieves the criteria stated in BS4142:2014+2019 during the daytime and night-time periods. BS4142:2014+2019 provides the following advice for this outcome:

'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.'

Additionally, for the night-time period, the calculated internal noise levels fall below the night-time noise criteria limit for bedrooms and as such, there is no requirement to consider noise mitigation measures.

The predicted noise levels from the proposed electrical plant at the Site will achieve the noise criteria stated in BS4142:2014+2019 for the daytime period and in BS8233:2014 for the night-time period internally. As such, noise levels are considered to be sufficiently low enough to afford compliance with the 'No Observed Adverse Effect Level' as detailed in the PPG and as such noise should not be deemed to be a determining factor in the granting of planning permission for this Site.

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1 INTRODUCTION

1.1 Appointment

1.1.1 Professional Consult Limited was instructed by Johnson Mowat Planning Limited to prepare a Noise Impact Assessment ('the Assessment') in support of a proposed Battery Energy Storage System (BESS) ('the Development') on a parcel of land located at Pheonix Place in Jarrow, NE32 3BE to be referred to hereafter as 'the Site'.

1.2 Purpose of Assessment

1.2.1 It is understood that a Noise Impact Assessment has been requested by the planning officer for the scheme planning application.

1.2.2 This Assessment has been completed with due regard to the appropriate British Standards and guidance documents relevant to the assessment of noise impacts.

1.3 The Development

1.3.1 The Development will comprise of a BESS scheme with a number of battery storage containers, transformer and inverters.

1.4 The Site & Receptors

1.4.1 The Site currently comprises of open land and is located to the east of Church Bank Road and to the south of St Paul Monastery.

1.4.2 The closest residential receptors to the Site are 37 Newlyn Drive to the south west and 180 St Pauls Road, located to the north west.

1.5 Limitations

1.5.1 The limitations of this report are presented in Appendix 1.

1.6 Confidentiality

1.6.1 Professional Consult has prepared this report solely for the use of the Client. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Professional Consult; a charge may be levied against such approval.

2 POLICY & GUIDANCE

2.1 BS4142:2014+A1:2019 'Methods for rating and assessing industrial and commercial sound'

2.1.1 This standard describes methods for rating and assessing sound of an industrial or commercial nature which includes:

- ② Sound from industrial and manufacturing processes;
- ② Sound from fixed installations which comprise mechanical and electrical plant and equipment;
- ② Sound from the loading and unloading of goods and materials at industrial and / or commercial premises; and,
- ② Sound from mobile plant and vehicles that is an intrinsic part of the overall sound emanating from processes or premises, such as that from forklift trucks, or that from train or ship movements on or around an industrial or commercial Site.

2.1.2 The procedure detailed in the standard compares the measured or predicted noise level 'the specific noise level' from any of the above detailed noise sources with the background sound level at a residential dwelling. The measured background sound level at a receptor should be reliable and should not necessarily ascertain a lowest measured background sound level, but rather to quantify what is 'typical.'

2.1.3 The specific noise level also acknowledges the following reference time intervals depending upon whether the noise source operates during daytime or night-time periods:

- ② Daytime (07:00 - 23:00): 1 hour; and
- ② Night-time (23:00 - 07:00): 15 minutes.

2.1.4 There are a number of 'penalties' which can be attributed to the specific sound level, either subjectively or objectively, depending upon the 'acoustic features' of the sound level under investigation as follows. These penalties vary in their weighting depending upon the severity of the acoustic feature, as follows (with regards to the subject method):

Tonality

- ② +2dB: where the tonality is just perceptible;
- ② +4dB: where the tonality is clearly perceptible; and
- ② +6dB: where the tonality is highly perceptible.

Impulsivity

- ② +3dB: where the impulsivity is just perceptible;
- ② +6dB: where the impulsivity is clearly perceptible; and
- ② +9dB: where the impulsivity is highly perceptible.

Intermittency

- ② +3dB: where the intermittency is readily distinctive against the acoustic environment.

- 2.1.5 Where the assessment is carried out using the objective method, the tonality penalty is either 0dB or 6dB and the impulsivity penalty can range from 0dB up to 9dB in increments of 1dB, depending on the level of impulsivity identified.
- 2.1.6 In addition to the above acoustic features, there is a penalty for 'other sound characteristics' of +3dB where a sound exhibits characteristics that are neither tonal nor impulsive, though is readily distinctive against the acoustic environment.
- 2.1.7 BS4142 goes on to state that the rating level is equal to the specific sound level if there are no such features present or expected to be present.
- 2.1.8 Assessment of the rating level relative to the background noise level can yield the following commentary:
- ② Typically, the greater this difference (between the rating level and the background sound level), the greater the magnitude of impact;
 - ② A difference of around +10dB or more is likely to be an indication of a significant adverse impact, depending on the context;
 - ② A difference of around +5dB is likely to be an indication of an adverse impact, depending on the context; and
 - ② 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. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact.
- 2.1.9 Whilst the amended 2019 Standard does make various references to it not being intended to assess noise impacts at indoor locations, section 1.1 does state 'The methods described in this British Standard use outdoor sound levels to assess the likely effects of sound on people who might be inside or outside a dwelling or premises used for residential purposes upon which sound is incident'. Example 6 in the Standard states 'In addition to the rating/background sound level comparison shown in Table A.6, the primary concern is the potential for disturbance of residents who could be sleeping with open bedroom windows. Other guidance, such as BS 8233, might also be applicable in this instance'.
- 2.1.10 With the above in mind, and for a clear need to ensure that any potential commercial or industrial noise impacts at the building façade do not give rise to internal noise level which causes sleep disturbance in bedrooms, this Assessment will ensure that the predicted rating level (specific sound level including any character corrections) does not exceed 30dB in bedrooms.

2.2 Local Authority Consultation – South Tyneside Council’s Environmental Health Department

- 2.2.1 Consultations were undertaken with South Tyneside Council regarding the BESS in October 2025 which stated:

‘We have been appointed by a client to undertake a Noise Impact Assessment in support of a proposed Battery Storage Site on a parcel of Land off Church Bank, Jarrow, South Tyneside.

Professional Consult will undertake a series of noise survey as follows:

- ② **Background Sound Survey:** *A background sound survey will be completed for the residential dwellings to the south west at Newlyn Drive and for the Monastery to the north, over a full weekday and weekend period.*

Professional Consult will complete the following assessments:

 **Planning Noise Impact Assessment:** *The cumulative noise impact produced by all proposed mechanical and electrical plant to be installed on the Site, upon the closest residential dwellings, will be included in a noise model and compared to the appropriate noise criteria limit for the nearest dwellings. The Assessment will adhere to the guidance provided in BS4142:2014+A1:2019.*

We will advise on appropriate and reasonable noise mitigation measures, where required

If you have any comments, then please do advise at your earliest convenience.'

2.2.1 At the time of issuing the report no response has been received.

3 NOISE SURVEY

3.1 Background Sound Survey

3.1.1 Professional Consult has completed a background sound survey as follows:

 **Noise Measurement Position 1:** Undertaken between 12:00 Wednesday 1st October to 12:00 Tuesday 7th October 2025. The microphone of the sound level meter was installed on the northern boundary of the Site adjacent to the St Paul's Monastery. Noise measurements were taken in free-field conditions and noise levels at the microphone comprised of road traffic sound from the surrounding road network. This location is considered representative as the noise climate at the receptors located to the north the west of the development; and

 **Noise Measurement Position 2:** Undertaken between 12:30 Wednesday 1st October to 12:00 Tuesday 7th October 2025. The microphone of the sound level meter was installed to the west of the receptors located off Newlyn Drive to the south. Noise measurements were taken in free-field conditions and noise levels at the microphone comprised of road traffic sound from the surrounding road network. This location is considered representative as the noise climate at the receptors located to the south west of the development.

3.1.2 Table 1 presents the measured background sound levels. Appendices 5 & 6 detail the full measured 15 minutes noise measurement data.

Table 1. Summary of Measured Background Sound Levels

Location	Period	Measured Background Sound Level, $L_{A90,15min}$ (dB)	
		Range	Typical (Mode Average)
NMP1	Daytime 07:00 – 23:00	43 – 53	52
	Night-Time 23:00 – 07:00	37 – 54	44
NMP2	Daytime 07:00 – 23:00	47 – 62	60
	Night-Time 23:00 – 07:00	32 – 63	47

3.2 Noise Survey Equipment

3.2.1 The following equipment was used for the Noise Surveys.

Table 2. Noise Measurement Equipment

Measurement Position	Equipment Description	Manufacturer & Type No	Serial No.	Calibration Due Date at time of survey
NMP1	Sound Level Meter	01dB Fusion	11755	28 th June 2026
	Pre-amplifier	01dB PRE22	1707173	
	Microphone	GRAS 40CD	291693	

	Calibrator	01dB CAL-31	84086	9 th July 2026
NMP2	Sound Level Meter	01dB Fusion	12038	7 th April 2027
	Pre-amplifier	01dB PRE22	2113007	
	Microphone	GRAS 40CD	449405	
	Calibrator	01dB CAL-31	87280	9 th July 2026

Note: Sound Pressure Levels were measured using Class-1 Sound Level Meters with a half-inch condenser microphone using the "fast" setting. The equipment is checked regularly using a Quality System meeting the requirements of British Standard EN ISO/IEC 17025:2017 "*General requirements for the competence of testing and calibration laboratories*"; in accordance with British Standard EN 10012:2003 "*Measurement management systems. Requirements for measurement processes and measuring equipment*"; and traceable to National Standards.

- 3.2.2 The sound level meter was field calibrated prior to and following the noise surveys and there was no drift beyond the allowable limit of 1dB.
- 3.2.3 Weather conditions were noted using online data to identify any periods of adverse weather (wind speeds above 5m/s and rainfall) that should be removed from the analysis.

4 NOISE IMPACT ASSESSMENT

4.1 Assessment Information

4.1.1 This Assessment has relied upon the library noise level data as detailed in Table 3 below. At the time of undertaking the assessment no layout has been provided. As such, a worst-case high-density scenario has been included in the Assessment with the plant operating at 100% capacity.

Table 3. Library Noise Level Data for Plant

Plant	Sound Power Level, L _{WA} (dB)	Noise Source Type for Noise Model	Source Noise Height Above Ground (m)	No. Units on Site
E Storage String PCS System	87.2	Point	1.5	26
MV Large Transformer	73	Point	1.5	1
E storage Sol Bank 3.0 Battery Container Fans	86.4	Point	1.5	52

4.1.2 The following noise sensitive residential dwellings have been identified and accounted for in this Assessment.

Table 4. Identified Residential Receptors

Receptor	Identifier	Type	Noise Model Receiver Location
St Paul's Monastery	R1	Place of Worship	Daytime Only: In front of External Area on the boundary southern boundary, 1.5m above local ground level
St Paul's Road	R2	Residential	Daytime: In garden area facing BESS, 1.5m above local ground level Night-time: At façade of dwelling facing BESS, 4.5m above ground
Nelwyn Drive	R3	Residential	Daytime: In garden area facing BESS, 1.5m above local ground level Night-time: At façade of dwelling facing BESS, 4.5m above ground
Beechwood Close	R4	Residential	Daytime: In garden area facing BESS, 1.5m above local ground level Night-time: At façade of dwelling facing BESS, 4.5m above ground

4.1.3 For St Paul's Monastery only, the daytime period has been considered as it is understood that the Monastery is not in use during the night-time period.

4.2 BESS Noise – BS4142 Assessment

4.2.1 For the purposes of this Assessment, Professional Consult has used noise modelling software CadnaA to determine the impact from the BESS at the noise sensitive receptors. A noise model has been constructed in order to calculate façade noise levels and external noise levels in amenity areas.

4.2.2 The following inputs have been included in the model:

- Indicative Scheme Layout;
- Site elevations have been taken as existing using 1m contours;

- ② Existing buildings or features that provide shielding from noise from the BESS have been included in the model;
- ② A reflection order of 2 has been used in all calculations;
- ② All Receptors have been taken to be 7.5m to apex (2-storey); and
- ② Noise levels generated using ISO 9613-1 and ISO 9613-2 “Acoustics – Attenuation of sound during propagation outdoors” as incorporated into CadnaA software.

4.2.3 Figures 1 and 2 in Appendix 4 details the grid noise maps for the daytime and night-time periods. Analysis of the grid noise maps indicates the following calculated specific sound pressure levels at the identified Receptors:

Table 5. Predicted Specific Noise Levels

Receptor	Period	Calculated Specific Noise Level, $L_{Aeq,T}$ (dB)
R1	07:00 – 23:00 (External Amenity Area)	47.2
R2	07:00 – 23:00 (External Amenity Area)	35.8
	23:00 – 07:00 (Bedrooms, first-floor)	35.5
R3	07:00 – 23:00 (External Amenity Area)	35.1
	23:00 – 07:00 (Bedrooms, first-floor)	38.2
R4	07:00 – 23:00 (External Amenity Area)	34.4
	23:00 – 07:00 (Bedrooms, first-floor)	36.8

4.2.4 The following has been considered in determining if any acoustic features exist in the predicted noise level at the closest residential receptors:

- ② Tonality - In determining if any tones exist in the measured noise levels, the methodology set out in BS4142:2014 has been followed using the objective method – either a 0dB penalty is allocated where no tones are present or 6dB penalty is allocated where tonality is present;
- ② Impulsivity – in determining if any impulsiveness is evident in the measured noise levels, the methodology set out in BS4142:2014 has been followed using the objective method which can result in a penalty from 0dB to 9dB being allocated depending upon the extent of impulsiveness;
- ② Intermittency – whether or not the measured operations turn on or off during the (1hr) assessment period; and
- ② Other sound characteristics – where no penalties are allocated for the above features, but there will be an audible noise at the closest receptor.

4.2.5 Table 6 applies appropriate character corrections.

Table 6. Applicable Character Corrections

Measured Noise Source	Tonality	Impulsivity	Intermittency	Other Sound Characteristics	Comments
Fixed Plant	2	0	0	0	Possibility for tonality from plant.
Highest Correction for Assessment Period	2	0	0	0	
Overall Correction to be added to Specific Noise	2dB				

4.2.6 Tables 7 completes the BS4142 Assessment.

Table 7. BS4142 Assessment

Receptor	Period	Overall Calculated Specific Noise Level at Receptor $L_{Aeq,t}$ (dB)	Total Overall Penalty (dB)	Calculated Rating Level (dB)	Noise Criteria in BS4142 :2014 $L_{Ar} = L_{A90,t}$ (dB)	Difference +/- (dB)
R1	Daytime (07:00 – 23:00)	47.2	+2	49.2	52	-2.8
R2	Daytime (07:00 – 23:00)	35.8	+2	37.8	52	-14.2
	Night-Time (23:00 – 07:00)	35.5	+2	37.5	44	-6.5
R3	Daytime (07:00 – 23:00)	35.1	+2	37.1	60	-22.9
	Night-Time (23:00 – 07:00)	38.2	+2	40.2	47	-6.8
R4	Daytime (07:00 – 23:00)	34.4	+2	36.4	60	-23.6
	Night-Time (23:00 – 07:00)	36.8	+2	38.8	47	-8.2

4.2.7 The assessment indicates that the rated level of noise achieves the criteria stated in BS4142:2014+2019 during the daytime and night-time periods and BS4142:2014+2019 provides the following advice for this outcome:

‘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.’

4.2.8 During the night-time period, it is reasonable to assume that residents of the dwelling are unlikely to be using their garden area and so for this period, it is of greater importance to consider internal noise impacts within a bedroom (as prescribed in BS4142:2014+A1:2019) and this assessment is presented in Table 8. Internal noise impacts have been calculated with windows open which, according to BS8233:2014, affords a noise level difference of 13dB from external to internal noise.

Table 8. Calculation of Internal Specific Noise Level with an Open Window

Receptor	Overall Calculated Specific Noise Level at Receptor, $L_{Aeq\ t}$ (dB)	Sound Reduction of a Partially Open Window (dB)	Calculated Internal Noise Level, $L_{Aeq\ t}$ (dB)	Internal Noise Criteria for Bedrooms, $L_{Aeq\ 8hr}$ (dB)	Difference +/- (dB)
R2	35.5	13	22.5	30	-7.5
R3	38.2	13	25.2	30	-4.8
R4	36.8	13	23.8	30	-6.2

4.2.9 Table 8 shows that the internal level of noise falls below the 30dB internal noise criteria level at the closest receptor with a partially open window.

5 MITIGATION

- 5.1.1 The previous section has shown compliance for both the BS4142 assessment and the BS8233 assessment and so there is no requirement to consider noise mitigation measures.

6 CONCLUSION

- 6.1.1 Professional Consult Limited was instructed by Johnson Mowat Planning Limited to prepare a Noise Impact Assessment in support of a proposed Battery Energy Storage System on a parcel of land located at Pheonix Place in Jarrow, NE32 3BE.
- 6.1.2 It is understood that a Noise Impact Assessment has been requested by the planning officer for the scheme planning application.
- 6.1.3 This Assessment has been completed with due regard to the appropriate British Standards and guidance documents relevant to the assessment of noise impacts.
- 6.1.4 The Development will comprise of a BESS scheme with a number of battery storage containers, transformer and inverters.
- 6.1.5 The Site currently comprises of open land and is located to the east of Church Bank Road and to the south of St Pauls Monastery.
- 6.1.6 The closest residential receptors to the Site are 37 Newlyn Drive to the south west and 180 St Pauls Road, located to the north west.
- 6.1.7 The results of the Assessment shows that the rated level of noise for the proposed BESS achieves the criteria stated in BS4142:2014+2019 during the daytime and night-time periods. BS4142:2014+2019 provides the following advice for this outcome:
- ‘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.’*
- 6.1.8 Additionally, for the night-time period, the calculated internal noise levels fall below the night-time noise criteria limit for bedrooms and as such, there is no requirement to consider noise mitigation measures.
- 6.1.9 The predicted noise levels from the proposed electrical plant at the Site will achieve the noise criteria stated in BS4142:2014+2019 for the daytime period and in BS8233:2014 for the night-time period internally. As such, noise levels are considered to be sufficiently low enough to afford compliance with the ‘No Observed Adverse Effect Level’ as detailed in the PPG and as such noise should not be deemed to be a determining factor in the granting of planning permission for this Site.

APPENDIX 1: LIMITATIONS

The purpose of this Assessment is to satisfy the requirements of the regulator and to provide the Client with reasonable advice in supporting their development.

This Noise Impact Assessment has been prepared using reasonable skill and care based on the information available to us at the time of undertaking the noise survey and preparing the Assessment.

All noise sources evident to us during the period of the noise survey will be considered, where required, for the purposes of informing the Assessment. We cannot be held accountable for any unknown noise impacts brought about by noise sources which were not evident to us during the period of the noise survey.

This report and its findings should be considered in relation to the terms of reference and objectives agreed between Professional Consult Limited and the Client.

The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.

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APPENDIX 2: GLOSSARY OF ACOUSTIC TERMINOLOGY

Noise is defined as unwanted sound. Human ears are able to respond to sound in the frequency range 20 Hz (deep bass) to 20,000 Hz (high treble) and over the audible range of 0 dB (the threshold of perception) to 140 dB (the threshold of pain). The ear does not respond equally to different frequencies of the same magnitude, but is more responsive to mid-frequencies than to lower or higher frequencies. To quantify noise in a manner that approximates the response of the human ear, a weighting mechanism is used. This reduces the importance of lower and higher frequencies, in a similar manner to the human ear.

Furthermore, the perception of noise may be determined by a number of other factors, which may not necessarily be acoustic. In general, the impact of noise depends upon its level, the margin by which it exceeds the background level, its character and its variation over a given period of time. In some cases, the time of day and other acoustic features such as tonality or impulsiveness may be important, as may the disposition of the affected individual. Any assessment of noise should give due consideration to all of these factors when assessing the significance of a noise source.

The most widely used weighting mechanism that best corresponds to the response of the human ear is the 'A'-weighting scale. This is widely used for environmental noise measurement, and the levels are denoted as dB(A) or L_{Aeq} , L_{A90} etc., according to the parameter being measured.

The decibel scale is logarithmic rather than linear, and hence a 3 dB increase in sound level represents a doubling of the sound energy present. Judgement of sound is subjective, but as a general guide a 10 dB(A) increase can be taken to represent a doubling of loudness, whilst an increase in the order of 3 dB(A) is generally regarded as the minimum difference needed to perceive a change under normal listening conditions.

An indication of the range of sound levels commonly found in the environment is given in the following table.

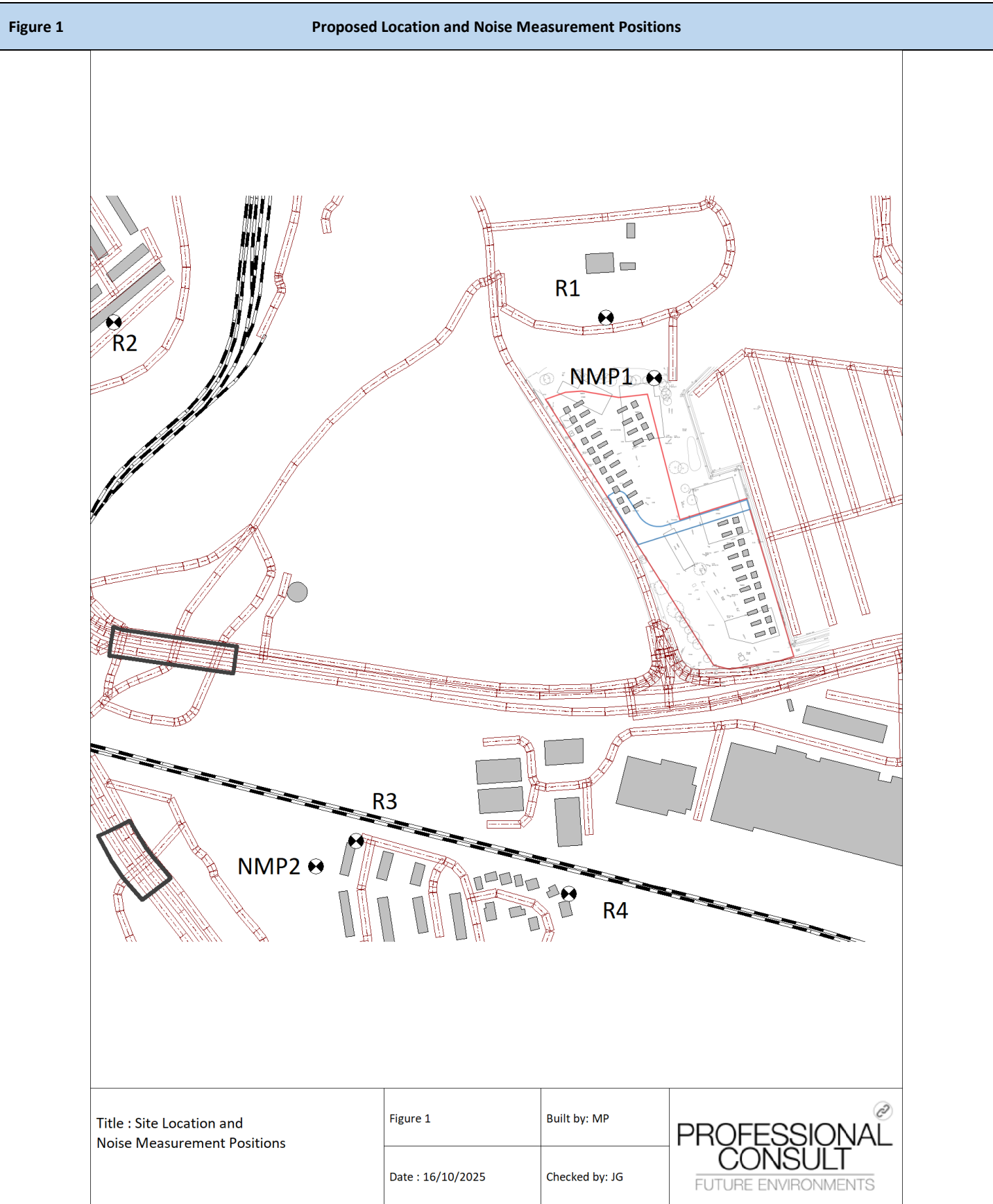
Table 1: Typical Sound Pressure Levels

Sound Pressure Level (dB)	Location/Example
0	Threshold of hearing
20 - 30	Quiet bedroom at night
30 - 40	Living room during the day
40 - 50	Typical office
50 - 60	Inside a car
60 - 70	Typical high street
70 - 90	Inside factory
100 - 110	Burglar alarm at 1m away
110 - 130	Jet aircraft on take off
140	Threshold of pain

Table 2: Terminology

Descriptor	Explanation
dB (decibel)	The scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure (2x10 ⁻⁵ Pa).
dB(A)	A-weighted decibel. This is a measure of the overall level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
L _{Aeq, T}	L _{Aeq} is defined as the notional steady sound level which, over a stated period of time (T), would contain the same amount of acoustical energy as the A - weighted fluctuating sound measured over that period.
L _{Amax}	L _{Amax} is the maximum A - weighted sound pressure level recorded over the period stated. L _{Amax} is sometimes used in assessing environmental noise where occasional loud noises occur, which may have little effect on the overall Leq noise level but will still affect the noise environment. Unless described otherwise, it is measured using the 'fast' sound level meter response.
L ₁₀ & L ₉₀	If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The Ln indices are used for this purpose, and the term refers to the level exceeded for n% of the time. Hence L ₁₀ is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L ₉₀ is the 'average minimum level' and is often used to describe the background noise. It is common practice to use the L ₁₀ index to describe traffic noise.
Free-field Level	2A sound field determined at a point away from reflective surfaces other than the ground with no significant contributions due to sound from other reflective surfaces. Generally as measured outside and away from buildings.
Fast	A time weighting used in the root mean square section of a sound level meter with a 125millisecond time constant.
Slow	A time weighting used in the root mean square section of a sound level meter with a 1000millisecond time constant.

APPENDIX 3: PROPOSED LOCATION AND NOISE MEASUREMENT POSITIONS



APPENDIX 4: FIGURES

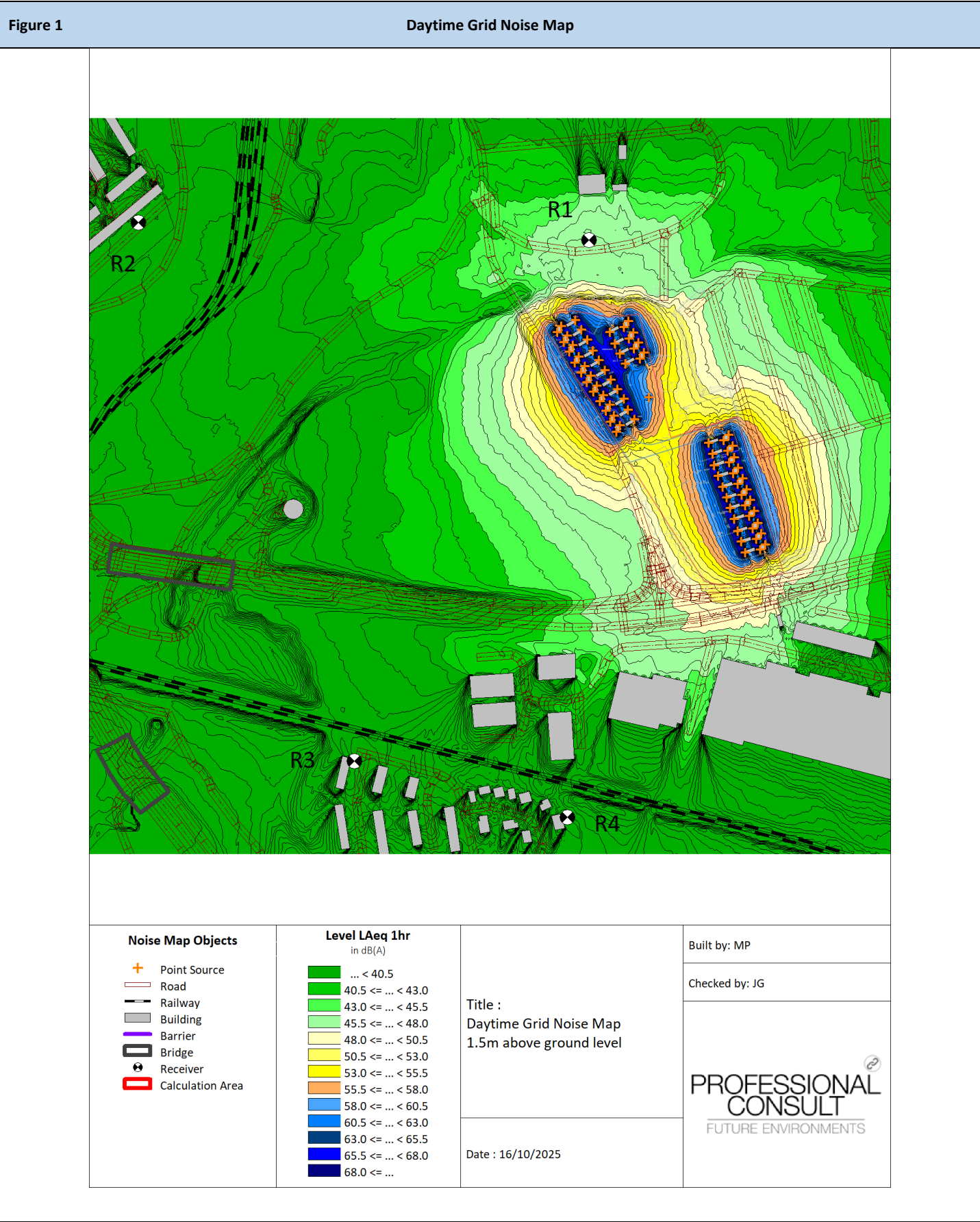
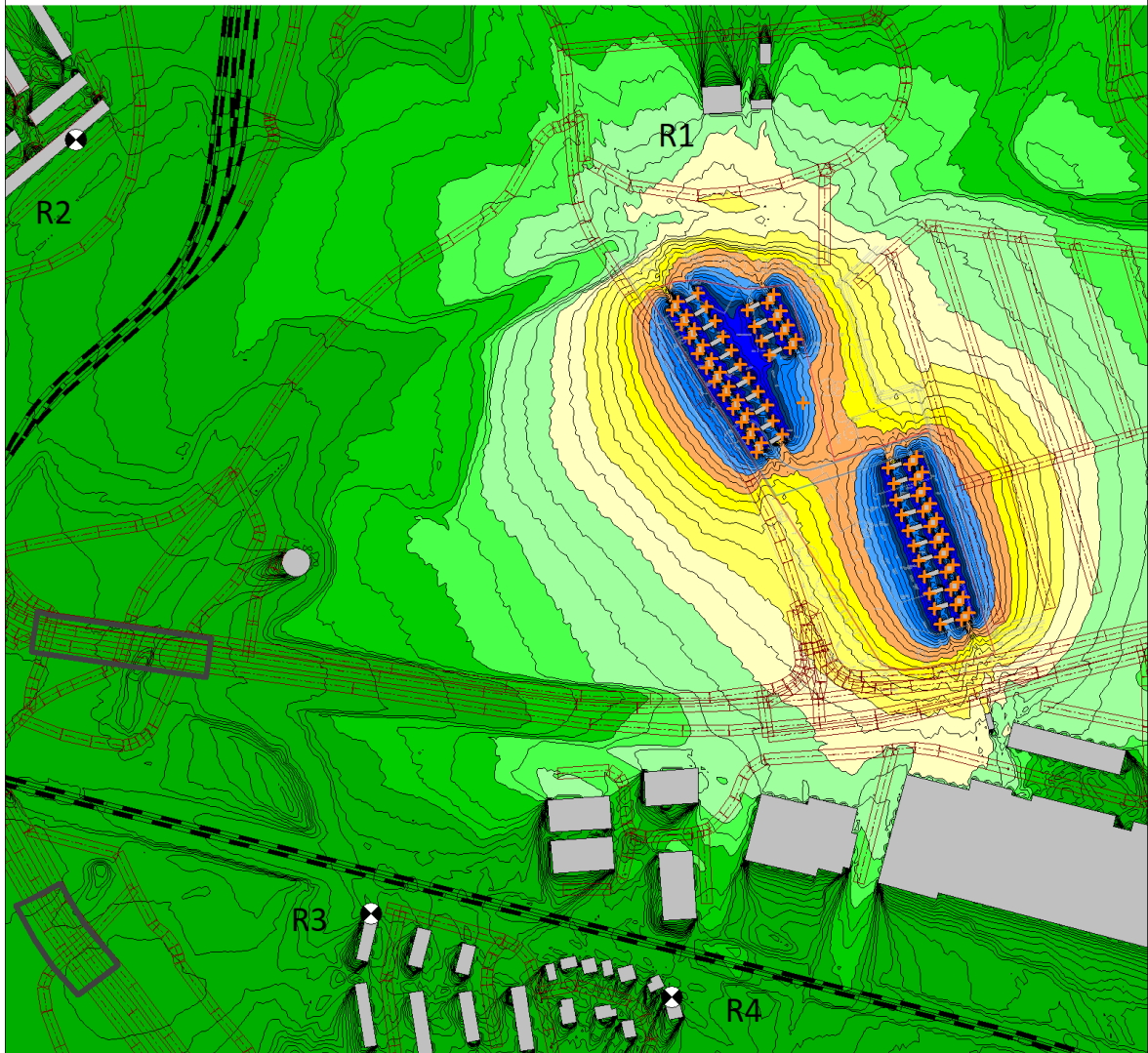


Figure 2

Night-time Grid Noise Map



Noise Map Objects + Point Source Road Railway Building Barrier Bridge ⊗ Receiver Calculation Area	Level LAeq 15min in dB(A) ... < 40.5 40.5 <= ... < 43.0 43.0 <= ... < 45.5 45.5 <= ... < 48.0 48.0 <= ... < 50.5 50.5 <= ... < 53.0 53.0 <= ... < 55.5 55.5 <= ... < 58.0 58.0 <= ... < 60.5 60.5 <= ... < 63.0 63.0 <= ... < 65.5 65.5 <= ... < 68.0 68.0 <= ...
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APPENDIX 5: BACKGROUND SOUND LEVELS - NMP1

Start Date & Time	Measured Sound Pressure Level	
	L _{Aeq,t}	L _{A90,t}
01/10/2025 12:00	54.9	53
01/10/2025 12:15	54.6	53
01/10/2025 12:30	54.5	53
01/10/2025 12:45	54.3	53
01/10/2025 13:00	55.5	54
01/10/2025 13:15	54.9	53
01/10/2025 13:30	53.7	52
01/10/2025 13:45	53.1	51
01/10/2025 14:00	53.3	51
01/10/2025 14:15	52.7	51
01/10/2025 14:30	52.3	51
01/10/2025 14:45	53.2	52
01/10/2025 15:00	53.6	52
01/10/2025 15:15	54	53
01/10/2025 15:30	54.5	53
01/10/2025 15:45	54.7	53
01/10/2025 16:00	55.2	54
01/10/2025 16:15	54.5	53
01/10/2025 16:30	54.1	53
01/10/2025 16:45	52.9	51
01/10/2025 17:00	53.3	52
01/10/2025 17:15	53.9	52
01/10/2025 17:30	53.7	52
01/10/2025 17:45	53.6	52
01/10/2025 18:00	53.7	52
01/10/2025 18:15	53.1	51
01/10/2025 18:30	52	50
01/10/2025 18:45	51.8	50
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05/10/2025 09:00	55.3	51

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06/10/2025 18:15	53.6	51
06/10/2025 18:30	55.5	51
06/10/2025 18:45	54.4	51
06/10/2025 19:00	51.7	50
06/10/2025 19:15	52.6	50
06/10/2025 19:30	51.6	49
06/10/2025 19:45	51.9	48
06/10/2025 20:00	50	47
06/10/2025 20:15	49.2	47

06/10/2025 20:30	48.5	45
06/10/2025 20:45	47.4	44
06/10/2025 21:00	49.4	46
06/10/2025 21:15	48.3	45
06/10/2025 21:30	49.4	45
06/10/2025 21:45	48.3	44
06/10/2025 22:00	48.3	43
06/10/2025 22:15	50.4	46
06/10/2025 22:30	49.8	45
06/10/2025 22:45	50.1	47
06/10/2025 23:00	47.9	44
06/10/2025 23:15	47.1	43
06/10/2025 23:30	46.2	43
06/10/2025 23:45	48.3	43
07/10/2025 00:00	49	45
07/10/2025 00:15	49	44
07/10/2025 00:30	47.7	42
07/10/2025 00:45	47.5	41
07/10/2025 01:00	48.7	41
07/10/2025 01:15	46	39
07/10/2025 01:30	49.9	42
07/10/2025 01:45	50.9	44
07/10/2025 02:00	48.4	42
07/10/2025 02:15	49.2	40
07/10/2025 02:30	51	44
07/10/2025 02:45	45.6	40
07/10/2025 03:00	42.2	37
07/10/2025 03:15	47.8	42
07/10/2025 03:30	47.5	42
07/10/2025 03:45	42.3	38
07/10/2025 04:00	42.4	39
07/10/2025 04:15	47	41
07/10/2025 04:30	45.1	42
07/10/2025 04:45	45.7	42
07/10/2025 05:00	44.6	40
07/10/2025 05:15	44.7	42
07/10/2025 05:30	50.6	45
07/10/2025 05:45	51.3	48
07/10/2025 06:00	50.9	49
07/10/2025 06:15	51.6	49
07/10/2025 06:30	52.7	51
07/10/2025 06:45	53.2	52
07/10/2025 07:00	53.3	51
07/10/2025 07:15	53.5	52
07/10/2025 07:30	54	52
07/10/2025 07:45	54	52
07/10/2025 08:00	54.1	53

07/10/2025 08:15	54.3	53
07/10/2025 08:30	53.6	52
07/10/2025 08:45	53.3	52
07/10/2025 09:00	53.2	52
07/10/2025 09:15	52.8	51
07/10/2025 09:30	53.7	52
07/10/2025 09:45	53.9	52
07/10/2025 10:00	52.2	50
07/10/2025 10:15	51.6	49
07/10/2025 10:30	51.5	50
07/10/2025 10:45	51.6	49
07/10/2025 11:00	51.1	49
07/10/2025 11:15	52.2	50
07/10/2025 11:30	52.4	50
07/10/2025 11:45	52.4	50

*Red denotes periods of adverse weather that have been removed from the analysis

APPENDIX 6: BACKGROUND SOUND LEVELS – NMP2

Start Date & Time	Measured Sound Pressure Level	
	L _{Aeq,t}	L _{A90,t}
01/10/2025 12:30	61.7	60
01/10/2025 12:45	61.2	59
01/10/2025 13:00	60.9	59
01/10/2025 13:15	61.3	59
01/10/2025 13:30	61.5	59
01/10/2025 13:45	61.4	60
01/10/2025 14:00	61.4	60
01/10/2025 14:15	61.6	60
01/10/2025 14:30	62	60
01/10/2025 14:45	61.8	60
01/10/2025 15:00	62.3	60
01/10/2025 15:15	62.2	61
01/10/2025 15:30	62.4	61
01/10/2025 15:45	62.6	61
01/10/2025 16:00	62.3	61
01/10/2025 16:15	62.1	61
01/10/2025 16:30	61.9	61
01/10/2025 16:45	61.2	60
01/10/2025 17:00	60.8	60
01/10/2025 17:15	61.2	60
01/10/2025 17:30	60.7	59
01/10/2025 17:45	60.5	59
01/10/2025 18:00	60.8	59
01/10/2025 18:15	60.3	58
01/10/2025 18:30	59.6	58
01/10/2025 18:45	58.8	57
01/10/2025 19:00	59.2	57
01/10/2025 19:15	58.3	56
01/10/2025 19:30	57.7	55
01/10/2025 19:45	57.4	54
01/10/2025 20:00	57.6	55
01/10/2025 20:15	57.6	55
01/10/2025 20:30	56.1	53
01/10/2025 20:45	56.5	52
01/10/2025 21:00	56.2	51
01/10/2025 21:15	55.9	51
01/10/2025 21:30	56.2	52
01/10/2025 21:45	54.9	50
01/10/2025 22:00	55	50
01/10/2025 22:15	55.1	50
01/10/2025 22:30	54.7	50
01/10/2025 22:45	53.6	49
01/10/2025 23:00	53.1	46
01/10/2025 23:15	52	42

01/10/2025 23:30	51.6	41
01/10/2025 23:45	51.1	39
02/10/2025 00:00	50.9	42
02/10/2025 00:15	49.5	39
02/10/2025 00:30	49.6	40
02/10/2025 00:45	50.6	43
02/10/2025 01:00	50.2	37
02/10/2025 01:15	49.4	39
02/10/2025 01:30	48.6	38
02/10/2025 01:45	50.8	43
02/10/2025 02:00	48.6	36
02/10/2025 02:15	51	38
02/10/2025 02:30	48.2	37
02/10/2025 02:45	49	35
02/10/2025 03:00	49.6	32
02/10/2025 03:15	49.5	39
02/10/2025 03:30	50.2	37
02/10/2025 03:45	48.9	35
02/10/2025 04:00	49.6	36
02/10/2025 04:15	51.3	37
02/10/2025 04:30	52.2	40
02/10/2025 04:45	52.8	46
02/10/2025 05:00	53.9	48
02/10/2025 05:15	55.4	51
02/10/2025 05:30	56.7	53
02/10/2025 05:45	57.7	55
02/10/2025 06:00	59.7	57
02/10/2025 06:15	60.5	59
02/10/2025 06:30	60.7	59
02/10/2025 06:45	61.7	60
02/10/2025 07:00	61.4	60
02/10/2025 07:15	61.7	60
02/10/2025 07:30	61.2	60
02/10/2025 07:45	60.8	60
02/10/2025 08:00	60.8	60
02/10/2025 08:15	61.5	60
02/10/2025 08:30	61.1	60
02/10/2025 08:45	60.2	57
02/10/2025 09:00	60.3	58
02/10/2025 09:15	60.7	58
02/10/2025 09:30	61	59
02/10/2025 09:45	61	59
02/10/2025 10:00	61.2	59
02/10/2025 10:15	60.7	58
02/10/2025 10:30	60.8	59
02/10/2025 10:45	61.1	59
02/10/2025 11:00	60.6	59

02/10/2025 11:15	60.6	58
02/10/2025 11:30	60.9	58
02/10/2025 11:45	60.8	59
02/10/2025 12:00	60.9	58
02/10/2025 12:15	60.6	57
02/10/2025 12:30	61.3	59
02/10/2025 12:45	61.2	59
02/10/2025 13:00	60.9	59
02/10/2025 13:15	61.5	60
02/10/2025 13:30	61.4	60
02/10/2025 13:45	61.3	60
02/10/2025 14:00	61.2	60
02/10/2025 14:15	60.7	59
02/10/2025 14:30	61.6	60
02/10/2025 14:45	61.8	60
02/10/2025 15:00	61.6	60
02/10/2025 15:15	62.2	60
02/10/2025 15:30	61.8	60
02/10/2025 15:45	61.7	61
02/10/2025 16:00	61.9	61
02/10/2025 16:15	61.6	60
02/10/2025 16:30	61.1	60
02/10/2025 16:45	60.9	59
02/10/2025 17:00	60.6	59
02/10/2025 17:15	60.3	59
02/10/2025 17:30	60.1	58
02/10/2025 17:45	59.6	58
02/10/2025 18:00	59.5	57
02/10/2025 18:15	59.4	57
02/10/2025 18:30	60.2	59
02/10/2025 18:45	60.2	58
02/10/2025 19:00	60.1	58
02/10/2025 19:15	59.6	57
02/10/2025 19:30	59.4	57
02/10/2025 19:45	58.5	56
02/10/2025 20:00	57.9	55
02/10/2025 20:15	57.9	56
02/10/2025 20:30	56.8	55
02/10/2025 20:45	56.5	53
02/10/2025 21:00	57.5	54
02/10/2025 21:15	57.4	54
02/10/2025 21:30	57.5	53
02/10/2025 21:45	56	53
02/10/2025 22:00	56.6	53
02/10/2025 22:15	55.5	52
02/10/2025 22:30	56.1	52
02/10/2025 22:45	56.8	53

02/10/2025 23:00	56.3	52
02/10/2025 23:15	55.4	52
02/10/2025 23:30	55.6	52
02/10/2025 23:45	55.9	53
03/10/2025 00:00	56.4	53
03/10/2025 00:15	56	52
03/10/2025 00:30	53.3	48
03/10/2025 00:45	54.7	49
03/10/2025 01:00	53.3	48
03/10/2025 01:15	52.7	45
03/10/2025 01:30	52.9	47
03/10/2025 01:45	53.4	48
03/10/2025 02:00	51	45
03/10/2025 02:15	51.8	46
03/10/2025 02:30	53.7	47
03/10/2025 02:45	50.6	42
03/10/2025 03:00	50.1	40
03/10/2025 03:15	51.5	41
03/10/2025 03:30	50.9	42
03/10/2025 03:45	49.1	41
03/10/2025 04:00	50.9	40
03/10/2025 04:15	51.6	40
03/10/2025 04:30	53.8	46
03/10/2025 04:45	53.5	47
03/10/2025 05:00	54.7	48
03/10/2025 05:15	55	50
03/10/2025 05:30	57.7	54
03/10/2025 05:45	57.6	54
03/10/2025 06:00	59.1	57
03/10/2025 06:15	60.4	58
03/10/2025 06:30	61.1	59
03/10/2025 06:45	61.3	59
03/10/2025 07:00	60.8	59
03/10/2025 07:15	61.4	60
03/10/2025 07:30	61.2	60
03/10/2025 07:45	60.7	60
03/10/2025 08:00	62	61
03/10/2025 08:15	61.9	60
03/10/2025 08:30	61.7	60
03/10/2025 08:45	61.7	60
03/10/2025 09:00	61.1	59
03/10/2025 09:15	59.9	57
03/10/2025 09:30	59.8	58
03/10/2025 09:45	60.8	59
03/10/2025 10:00	60.8	59
03/10/2025 10:15	61.2	59
03/10/2025 10:30	60.8	59

03/10/2025 10:45	61.3	59
03/10/2025 11:00	60.8	59
03/10/2025 11:15	61.4	60
03/10/2025 11:30	61.2	59
03/10/2025 11:45	61.5	60
03/10/2025 12:00	61.5	60
03/10/2025 12:15	61.7	60
03/10/2025 12:30	62.3	61
03/10/2025 12:45	62.8	62
03/10/2025 13:00	63	62
03/10/2025 13:15	62.9	62
03/10/2025 13:30	63.1	62
03/10/2025 13:45	62.7	60
03/10/2025 14:00	61.7	58
03/10/2025 14:15	63.2	62
03/10/2025 14:30	63.8	63
03/10/2025 14:45	62.9	62
03/10/2025 15:00	62.6	61
03/10/2025 15:15	62.9	61
03/10/2025 15:30	62.2	61
03/10/2025 15:45	63.2	62
03/10/2025 16:00	63.7	62
03/10/2025 16:15	64.1	62
03/10/2025 16:30	64.6	62
03/10/2025 16:45	65.1	62
03/10/2025 17:00	65	62
03/10/2025 17:15	64.1	62
03/10/2025 17:30	64.1	62
03/10/2025 17:45	63	61
03/10/2025 18:00	62.1	60
03/10/2025 18:15	62.2	60
03/10/2025 18:30	61.6	60
03/10/2025 18:45	61.8	60
03/10/2025 19:00	61.4	59
03/10/2025 19:15	60.7	59
03/10/2025 19:30	63.1	60
03/10/2025 19:45	61.3	58
03/10/2025 20:00	60.4	56
03/10/2025 20:15	63.2	59
03/10/2025 20:30	64.7	60
03/10/2025 20:45	62.1	59
03/10/2025 21:00	62.4	57
03/10/2025 21:15	62.9	58
03/10/2025 21:30	62.4	58
03/10/2025 21:45	62.4	58
03/10/2025 22:00	58.4	54
03/10/2025 22:15	60.7	55

03/10/2025 22:30	59.1	55
03/10/2025 22:45	59.4	55
03/10/2025 23:00	59.8	55
03/10/2025 23:15	60.4	55
03/10/2025 23:30	59.5	54
03/10/2025 23:45	63.5	55
04/10/2025 00:00	55.7	51
04/10/2025 00:15	56.9	51
04/10/2025 00:30	57.7	52
04/10/2025 00:45	56.9	50
04/10/2025 01:00	56.3	50
04/10/2025 01:15	53.2	47
04/10/2025 01:30	52.9	46
04/10/2025 01:45	52.3	45
04/10/2025 02:00	53.9	47
04/10/2025 02:15	53.5	48
04/10/2025 02:30	54	47
04/10/2025 02:45	55.9	50
04/10/2025 03:00	53.3	48
04/10/2025 03:15	55.3	49
04/10/2025 03:30	55.6	48
04/10/2025 03:45	55.5	49
04/10/2025 04:00	56.3	47
04/10/2025 04:15	54.8	50
04/10/2025 04:30	54.5	49
04/10/2025 04:45	54.8	50
04/10/2025 05:00	56.2	51
04/10/2025 05:15	55.7	50
04/10/2025 05:30	58.2	54
04/10/2025 05:45	59.4	55
04/10/2025 06:00	59.7	54
04/10/2025 06:15	62.1	57
04/10/2025 06:30	61.7	57
04/10/2025 06:45	62	58
04/10/2025 07:00	61.4	57
04/10/2025 07:15	62.1	58
04/10/2025 07:30	60.9	58
04/10/2025 07:45	62.2	59
04/10/2025 08:00	64.1	60
04/10/2025 08:15	63.7	59
04/10/2025 08:30	63.7	60
04/10/2025 08:45	63.6	61
04/10/2025 09:00	64.1	60
04/10/2025 09:15	64.3	61
04/10/2025 09:30	63.9	61
04/10/2025 09:45	63.2	60
04/10/2025 10:00	62.5	60

04/10/2025 10:15	63.7	61
04/10/2025 10:30	63.6	60
04/10/2025 10:45	63.6	61
04/10/2025 11:00	64.7	62
04/10/2025 11:15	65.1	62
04/10/2025 11:30	64.7	62
04/10/2025 11:45	66.1	63
04/10/2025 12:00	65.9	62
04/10/2025 12:15	65.4	62
04/10/2025 12:30	65.5	63
04/10/2025 12:45	65.4	62
04/10/2025 13:00	66.9	64
04/10/2025 13:15	65.6	62
04/10/2025 13:30	65.1	62
04/10/2025 13:45	66.9	63
04/10/2025 14:00	65.7	62
04/10/2025 14:15	64.9	62
04/10/2025 14:30	65.4	62
04/10/2025 14:45	67.2	64
04/10/2025 15:00	66.5	62
04/10/2025 15:15	64.6	61
04/10/2025 15:30	66.5	63
04/10/2025 15:45	67.4	64
04/10/2025 16:00	64.3	61
04/10/2025 16:15	65.5	61
04/10/2025 16:30	64.6	61
04/10/2025 16:45	65.2	62
04/10/2025 17:00	64.4	61
04/10/2025 17:15	64.4	61
04/10/2025 17:30	64.3	61
04/10/2025 17:45	63.7	60
04/10/2025 18:00	63.6	60
04/10/2025 18:15	62.9	60
04/10/2025 18:30	63.9	60
04/10/2025 18:45	62.7	59
04/10/2025 19:00	61.8	58
04/10/2025 19:15	62.1	59
04/10/2025 19:30	62.7	59
04/10/2025 19:45	60.5	56
04/10/2025 20:00	62.3	58
04/10/2025 20:15	62.9	58
04/10/2025 20:30	62.8	58
04/10/2025 20:45	63.8	59
04/10/2025 21:00	62.3	57
04/10/2025 21:15	62.1	56
04/10/2025 21:30	62	57
04/10/2025 21:45	63.8	58

04/10/2025 22:00	63.7	58
04/10/2025 22:15	62.8	58
04/10/2025 22:30	63.6	59
04/10/2025 22:45	61.4	57
04/10/2025 23:00	61.3	57
04/10/2025 23:15	62.1	57
04/10/2025 23:30	61.2	55
04/10/2025 23:45	61.5	56
05/10/2025 00:00	62.5	57
05/10/2025 00:15	64	57
05/10/2025 00:30	62.8	56
05/10/2025 00:45	63.9	57
05/10/2025 01:00	63.4	56
05/10/2025 01:15	62.7	56
05/10/2025 01:30	62	56
05/10/2025 01:45	62.9	56
05/10/2025 02:00	63.1	55
05/10/2025 02:15	61.8	55
05/10/2025 02:30	62.5	55
05/10/2025 02:45	59.9	54
05/10/2025 03:00	59.4	53
05/10/2025 03:15	61.8	56
05/10/2025 03:30	60.6	56
05/10/2025 03:45	59.6	53
05/10/2025 04:00	60.4	53
05/10/2025 04:15	56.7	53
05/10/2025 04:30	55	50
05/10/2025 04:45	57.2	50
05/10/2025 05:00	58.5	53
05/10/2025 05:15	59.5	55
05/10/2025 05:30	60.5	56
05/10/2025 05:45	59.2	54
05/10/2025 06:00	60.9	55
05/10/2025 06:15	60	56
05/10/2025 06:30	60.2	55
05/10/2025 06:45	59.7	55
05/10/2025 07:00	59	54
05/10/2025 07:15	60.4	56
05/10/2025 07:30	60.2	56
05/10/2025 07:45	59.8	56
05/10/2025 08:00	59.3	56
05/10/2025 08:15	60.9	58
05/10/2025 08:30	61.1	57
05/10/2025 08:45	62.3	59
05/10/2025 09:00	62.7	60
05/10/2025 09:15	63.1	59
05/10/2025 09:30	63.2	60

05/10/2025 09:45	62.7	60
05/10/2025 10:00	62.7	60
05/10/2025 10:15	64.6	61
05/10/2025 10:30	64.7	61
05/10/2025 10:45	62.8	60
05/10/2025 11:00	62.1	60
05/10/2025 11:15	63.8	61
05/10/2025 11:30	64.2	62
05/10/2025 11:45	63	61
05/10/2025 12:00	62.3	60
05/10/2025 12:15	63.6	61
05/10/2025 12:30	63.6	61
05/10/2025 12:45	65	63
05/10/2025 13:00	63.6	60
05/10/2025 13:15	64.4	62
05/10/2025 13:30	63.8	61
05/10/2025 13:45	63.2	61
05/10/2025 14:00	62.9	60
05/10/2025 14:15	64	61
05/10/2025 14:30	63.6	60
05/10/2025 14:45	62.2	60
05/10/2025 15:00	62.7	60
05/10/2025 15:15	63.4	61
05/10/2025 15:30	62.5	60
05/10/2025 15:45	62.2	60
05/10/2025 16:00	62.9	60
05/10/2025 16:15	63	61
05/10/2025 16:30	62.8	60
05/10/2025 16:45	61.5	59
05/10/2025 17:00	62.2	59
05/10/2025 17:15	62.2	60
05/10/2025 17:30	62.4	60
05/10/2025 17:45	63	60
05/10/2025 18:00	62.6	60
05/10/2025 18:15	61.9	58
05/10/2025 18:30	60.6	58
05/10/2025 18:45	60.2	57
05/10/2025 19:00	60.3	57
05/10/2025 19:15	60.3	57
05/10/2025 19:30	61	57
05/10/2025 19:45	63.2	59
05/10/2025 20:00	61.7	58
05/10/2025 20:15	61.5	58
05/10/2025 20:30	60.6	56
05/10/2025 20:45	61.7	57
05/10/2025 21:00	58.9	54
05/10/2025 21:15	57.7	54

05/10/2025 21:30	55.8	51
05/10/2025 21:45	57.3	53
05/10/2025 22:00	58.7	53
05/10/2025 22:15	56	51
05/10/2025 22:30	57.5	53
05/10/2025 22:45	56	52
05/10/2025 23:00	55.6	50
05/10/2025 23:15	53.7	46
05/10/2025 23:30	52.5	45
05/10/2025 23:45	52.7	42
06/10/2025 00:00	52.6	43
06/10/2025 00:15	50.5	44
06/10/2025 00:30	49.9	44
06/10/2025 00:45	52.8	46
06/10/2025 01:00	54.5	50
06/10/2025 01:15	52.2	48
06/10/2025 01:30	50	40
06/10/2025 01:45	49.5	38
06/10/2025 02:00	49.2	40
06/10/2025 02:15	49.7	34
06/10/2025 02:30	49.9	39
06/10/2025 02:45	52.2	47
06/10/2025 03:00	52.9	47
06/10/2025 03:15	52.4	47
06/10/2025 03:30	52.2	41
06/10/2025 03:45	52.2	43
06/10/2025 04:00	54.5	46
06/10/2025 04:15	54.5	48
06/10/2025 04:30	55.2	47
06/10/2025 04:45	56	48
06/10/2025 05:00	57.7	53
06/10/2025 05:15	58	53
06/10/2025 05:30	59.6	55
06/10/2025 05:45	60.2	57
06/10/2025 06:00	62.2	60
06/10/2025 06:15	63.3	60
06/10/2025 06:30	63.4	62
06/10/2025 06:45	65.2	63
06/10/2025 07:00	63.4	61
06/10/2025 07:15	64.6	62
06/10/2025 07:30	64.7	62
06/10/2025 07:45	62.6	61
06/10/2025 08:00	62.5	61
06/10/2025 08:15	63.4	62
06/10/2025 08:30	62.5	61
06/10/2025 08:45	61.9	60
06/10/2025 09:00	61.2	59

Reference: 25.224.1.R1
Date: 16 October 2025
Project: Proposed Battery Energy Storage System

06/10/2025 09:15	61.4	60
06/10/2025 09:30	62.5	60
06/10/2025 09:45	62.1	61
06/10/2025 10:00	62.2	60
06/10/2025 10:15	62.8	61
06/10/2025 10:30	61.8	60
06/10/2025 10:45	62	59
06/10/2025 11:00	61.5	59
06/10/2025 11:15	62.3	60
06/10/2025 11:30	62.2	60
06/10/2025 11:45	61.9	60
06/10/2025 12:00	62.1	60
06/10/2025 12:15	62.3	61
06/10/2025 12:30	61.6	59
06/10/2025 12:45	61.4	59
06/10/2025 13:00	62.7	60
06/10/2025 13:15	61.7	58
06/10/2025 13:30	62.3	60
06/10/2025 13:45	61.6	59
06/10/2025 14:00	61.4	59
06/10/2025 14:15	61.6	59
06/10/2025 14:30	61	59
06/10/2025 14:45	61.4	60
06/10/2025 15:00	61.7	60
06/10/2025 15:15	61.8	60
06/10/2025 15:30	61.8	60
06/10/2025 15:45	61.7	61
06/10/2025 16:00	62	61
06/10/2025 16:15	62	61
06/10/2025 16:30	62	61
06/10/2025 16:45	62.6	61
06/10/2025 17:00	62	61
06/10/2025 17:15	62	60
06/10/2025 17:30	61.3	59
06/10/2025 17:45	61.3	60
06/10/2025 18:00	61.3	59
06/10/2025 18:15	61.4	59
06/10/2025 18:30	60	58
06/10/2025 18:45	60.5	58
06/10/2025 19:00	59.2	57
06/10/2025 19:15	58.8	56
06/10/2025 19:30	58.8	56
06/10/2025 19:45	58.2	55
06/10/2025 20:00	57.4	53
06/10/2025 20:15	57.4	52
06/10/2025 20:30	55.8	51
06/10/2025 20:45	55.6	52

06/10/2025 21:00	56.6	51
06/10/2025 21:15	56	53
06/10/2025 21:30	56.4	50
06/10/2025 21:45	55	50
06/10/2025 22:00	55.4	48
06/10/2025 22:15	55.8	47
06/10/2025 22:30	55.1	48
06/10/2025 22:45	54.4	47
06/10/2025 23:00	52	44
06/10/2025 23:15	53.4	41
06/10/2025 23:30	50.9	43
06/10/2025 23:45	51.8	44
07/10/2025 00:00	52	46
07/10/2025 00:15	52.6	47
07/10/2025 00:30	58.6	47
07/10/2025 00:45	59	50
07/10/2025 01:00	51.1	43
07/10/2025 01:15	50.2	42
07/10/2025 01:30	56.2	48
07/10/2025 01:45	58.8	49
07/10/2025 02:00	52	43
07/10/2025 02:15	50.3	44
07/10/2025 02:30	53.1	44
07/10/2025 02:45	52.1	40
07/10/2025 03:00	52.8	39
07/10/2025 03:15	59.1	47
07/10/2025 03:30	51.7	44
07/10/2025 03:45	49.3	38
07/10/2025 04:00	50.7	42
07/10/2025 04:15	51.4	41
07/10/2025 04:30	51.7	43
07/10/2025 04:45	53.3	46
07/10/2025 05:00	53.7	42
07/10/2025 05:15	55.1	49
07/10/2025 05:30	56.8	52
07/10/2025 05:45	59.5	55
07/10/2025 06:00	59.8	56
07/10/2025 06:15	61	57
07/10/2025 06:30	61.1	59
07/10/2025 06:45	61.3	60
07/10/2025 07:00	61.1	59
07/10/2025 07:15	61.1	60
07/10/2025 07:30	61.5	60
07/10/2025 07:45	60.7	59
07/10/2025 08:00	60.5	59
07/10/2025 08:15	61.4	60
07/10/2025 08:30	60.7	59

07/10/2025 08:45	60.2	58
07/10/2025 09:00	60.2	58
07/10/2025 09:15	59.7	57
07/10/2025 09:30	60.3	57
07/10/2025 09:45	62.1	59
07/10/2025 10:00	60.2	58
07/10/2025 10:15	60.3	56
07/10/2025 10:30	60.4	58
07/10/2025 10:45	60.5	58
07/10/2025 11:00	60.5	58
07/10/2025 11:15	61.1	58
07/10/2025 11:30	60.2	58
07/10/2025 11:45	60.9	59
*Red denotes periods of adverse weather that have been removed from the analysis		