
**151 Dickenson Road, Manchester
Seating Enclosure Noise Assessment**



Project: 151 Dickenson Road (Enclosure to Front Seating Area)

Client: Hayder Rathi

Project Reference: RSA514/2025

Report Date: 25 June 2025

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1	25 June 2025	Issue for planning	RS / LT

Authorised by	Ryan Swales, BSc, MIOA Director & Principal Consultant
Signature	

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1. Introduction

- 1.1 RS Acoustic Engineering Ltd has been appointed by Hayder Rathi to undertake a noise impact assessment with regard to an external seating area enclosure to the front of No.151 Dickenson Road, Manchester, M14 (Ice Paradise restaurant).
- 1.2 There are commercial properties (offices) on either side of the premises at ground floor level and there is a flat at first floor level within the adjacent properties (No.153a & 155a). There are similar restaurant and takeaway businesses within the local area.
- 1.3 Prior Approval was granted by Manchester City Council in August 2020 for the change of use of A2 offices to A3 cafe together with installation of extraction flue to the rear, subject to a number of conditions (ref: 127337/P3CPA/2020).
- 1.4 Regarding operating hours, the prior approval states that the premises shall not be open outside of the following hours:
 - 12:00pm (Noon) to 12:00am (Midnight) Sunday to Friday
 - 12:00pm (Noon) to 1:00am Saturdays
- 1.5 It is understood that to date there have been no complaints from neighbouring properties regarding operational noise and/or customer related noise.
- 1.6 Continuous sound level monitoring has been conducted at the front elevation to determine the typical ambient and background sound pressure levels during the permitted operating hours.
- 1.7 The dominant source of noise at the site was observed to be road traffic on Dickenson Road (A6010) and Birchfields Road (A34). Other noted sources of noise include high altitude aircraft, intermittent activity at neighbouring commercial premises and vehicles parking to the front of the premises.
- 1.8 This assessment considers sound breakout from the proposed seating area enclosure and the resulting impact on the neighbouring dwellings/flats.
- 1.9 The survey and assessment were conducted by Mr Ryan Swales (BSc(Hons), MIOA), Principal Acoustic Consultant and Corporate Member of the Institute of Acoustics.
- 1.10 This report provides the survey results, calculation details and the predicted sound pressure levels at neighbouring dwellings.

2. Environmental Noise Survey

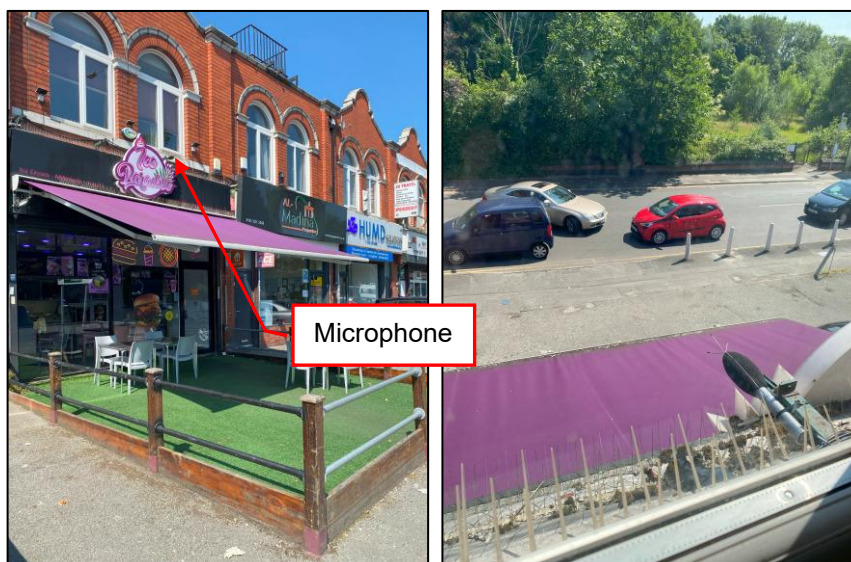
Survey methodology

- 2.1 An environmental noise survey has been conducted to establish the prevailing ambient and background sound pressure levels at the front elevation during the daytime and evening period.
- 2.2 Continuous sound level monitoring was conducted over a 49-hour period at the south facing elevation. Measurements were performed from 14:00 hours on Tuesday 17th through to 15:00 hours on Thursday 19th June 2025.
- 2.3 The microphone was fixed to the elevation at first floor level adjacent to the window of the neighbouring flat. A measurement interval of 15 minutes was used throughout the survey and measurements were subject to reflections from the building façade (as opposed to free field).
- 2.4 The site location and survey measurement position are shown in Figure 2.1 and Figure 2.2.

Figure 2.1 - Site location and survey measurement position (source: Google Maps)



Figure 2.2 - Photographs showing survey measurement position



Survey equipment

- 2.5 The measurements were performed using the following Class-1 specification equipment:
- Brüel & Kjaer 2260 sound level meter, microphone type 4189, pre-amplifier type ZC0032.
 - CEL-120/1 Acoustic calibrator.
- 2.6 Calibration of the sound level meter and microphone used for the measurements are traceable to UKAS accredited laboratories (calibration certificates are available upon request).
- 2.7 The calibration of both sound level meter and microphone was checked using a 1 kHz tone at 94 dB prior to and following the survey. Calibration drift was less than 0.1 dB.

Results summary

- 2.8 Table 2.1 presents a summary of the measured L_{Aeq} sound pressure levels. Measured values have been rounded to the nearest whole number.
- 2.9 L_{Aeq} is representative of the 'average' sound pressure level over a given period and is commonly used to describe the 'ambient' sound pressure level.
- 2.10 Sound pressure level measurements are taken with an A-weighting (denoted by a subscript 'A', e.g. L_{Aeq}) to approximate the frequency response of the human ear.

Table 2.1 - Measured ambient L_{Aeq} sound pressure levels

Date	Period, Hours	Average $L_{Aeq,15min}$ dB	Lowest $L_{Aeq,15min}$ dB	Highest $L_{Aeq,15min}$ dB
Tuesday 17/06/2025	Operating hours (14:00-00:00)	64	61	71
Wednesday 18/06/2025	Operating hours (12:00-00:00)	64	61	74
Thursday 19/06/2025	Operating hours (12:00-15:00)	63	61	65
¹ Considered to be the representative background sound level from a statistical analysis (modal value)				

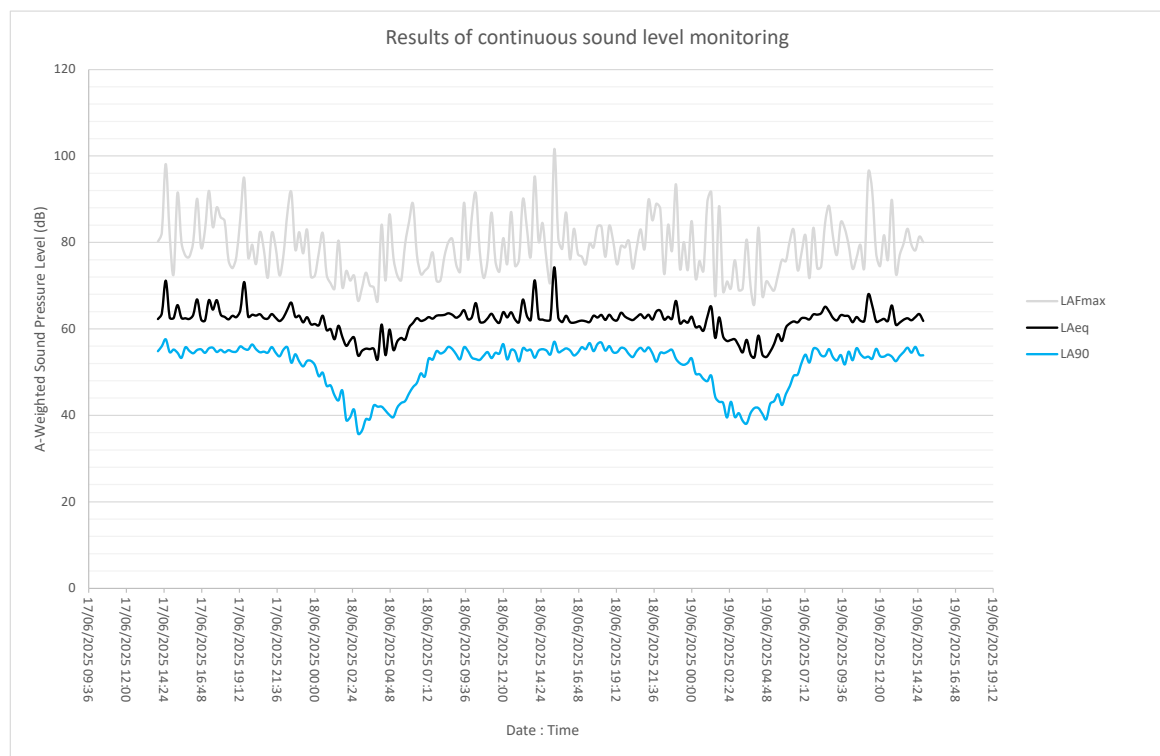
- 2.11 During operating hours, the average ambient sound pressure level ranged between 63 to 64 dB $L_{Aeq,15min}$.
- 2.12 The lowest measured ambient sound pressure level was 61 dB $L_{Aeq,15min}$ and the highest measured ambient sound pressure level was 74 dB $L_{Aeq,15min}$.
- 2.13 Table 2.2 overleaf presents a summary of the measured background L_{A90} sound pressure levels from the continuous monitoring position. Measured values have been rounded to the nearest whole number.
- 2.14 L_{A90} is the sound pressure level that is exceeded for 90% of the measurement time interval, T, and is often used to describe the 'background' sound level.

Table 2.2 - Measured background L_{A90} sound pressure levels

Date	Period, Hours	Typical ¹ $L_{A90,15min}$ dB	Lowest $L_{A90,15min}$ dB	Highest $L_{A90,15min}$ dB
Tuesday 17/06/2025	Operating hours (14:00-00:00)	55	51	58
Wednesday 18/06/2025	Operating hours (12:00-00:00)	55	52	57
Thursday 19/06/2025	Operating hours (12:00-15:00)	54	53	56
¹ Considered to be the representative background sound level from a statistical analysis (modal value)				

- 2.15 During operating hours, the typical background sound pressure level ranged between 54 to 55 dB $L_{A90,15min}$.
- 2.16 The lowest measured background sound pressure level was 51 dB $L_{A90,15min}$ and the highest measured background sound pressure level was 58 dB $L_{A90,15min}$.
- 2.17 The results of the sound level monitoring are presented graphically in Figure 2.3. Additional tabulated survey data is presented in Appendix A.
- 2.18 It is worth noting that the maximum sound pressure level ranged between 71 to 102 dB $L_{AFmax,15min}$ and was due to passing vehicles on Dickenson Road. The average maximum sound pressure level was 81 dB $L_{AFmax,15min}$.

Figure 2.3 - Graph showing results of continuous sound level monitoring



3. Assessment & Discussion

Nearest noise sensitive receptors

- 3.1 The nearest noise sensitive receptor to the seating area is a first floor flat at No.153a Dickenson Road. The distance from the mid-point of the seating area to the window is approximately 5 metres.
- 3.2 There is an estate agent directly below the flat (Al Madina Properties) which is shown in Figure 3.1 below. The office operating hours are typically 09:00 to 19:00.
- 3.3 There is also a first floor flat at No.155a Dickenson Road. There is a Solicitors office directly below the flat (Humd Solicitors). The office operating hours are typically 09:30 to 17:30.
- 3.4 There is also a neighbouring Solicitors office at 149 Dickenson Road (Platts Solicitors). The first floor of the property appears to be office space as opposed to a dwelling.
- 3.5 There is also a first floor flat at No.147a Dickenson Road. There is an accountant's office directly below the flat (MH Accountant).

Figure 3.1 - Existing front elevation and neighbouring dwellings

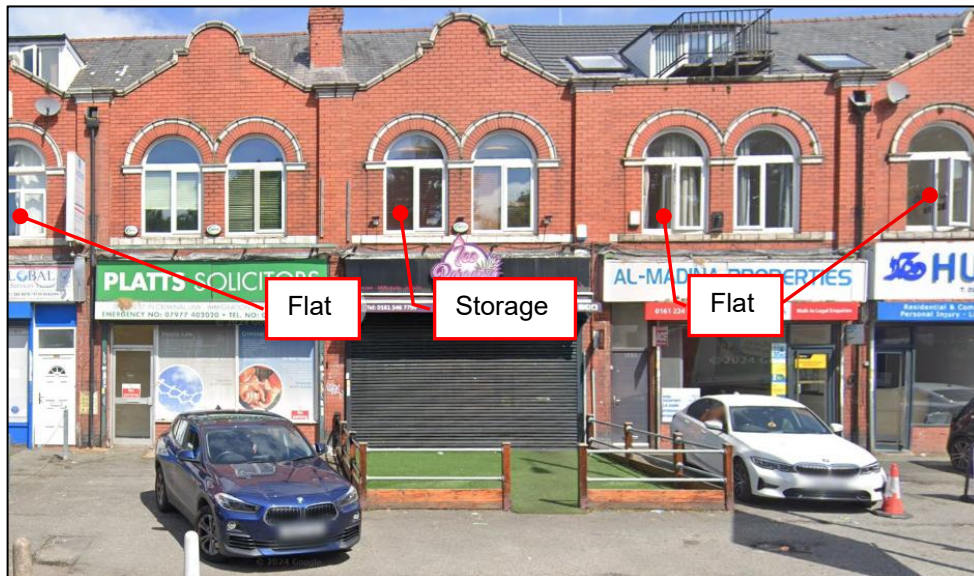
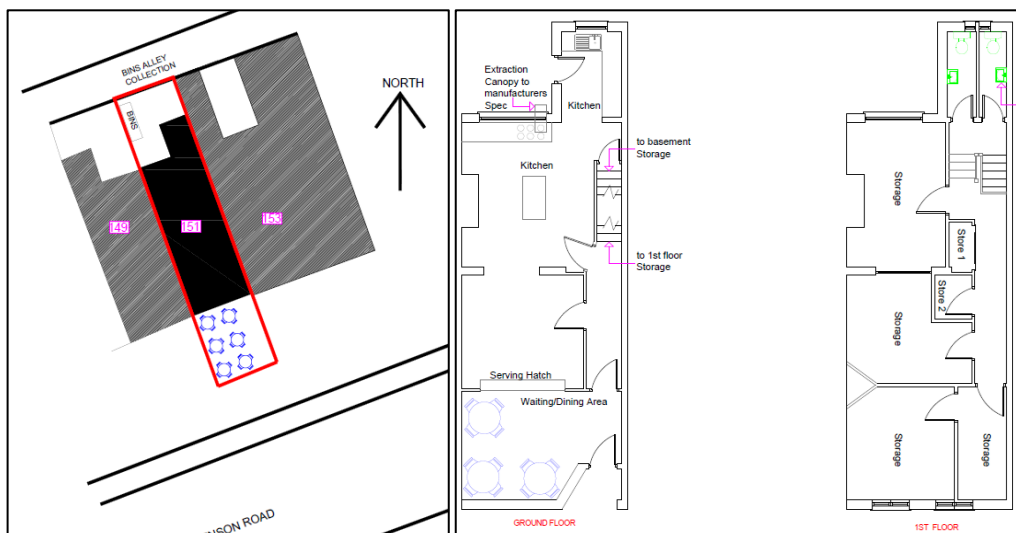


Figure 3.2 - Existing site plan and internal floor plans

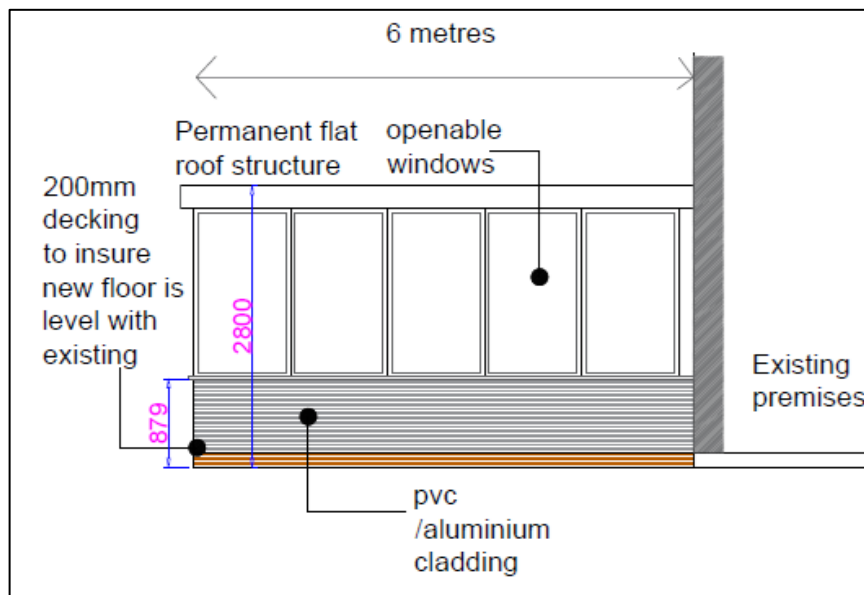


Noise breakout from the seating area enclosure

Enclosure construction and acoustic performance

- 3.6 The enclosure dimensions are approximately 6 metres deep x 5 metres wide x 2.8 metres high.
- 3.7 The front seating area will accommodate up to approximately 20 to 25 occupants when fully occupied.
- 3.8 The enclosure construction consists of aluminium cladding to the front and side walls with standard thermal double glazing above the cladding. It is assumed that the front entrance door will be double glazed.
- 3.9 The sound insulation of the cladding is estimated to be approximately 17 to 20 dB R_w , whereas the sound insulation of the glazing is estimated to be approximately 29 to 32 dB R_w .
- 3.10 There will be a permanent solid flat roof structure, which will replace the existing retractable awning. It is anticipated that the roof will have a plywood base. The sound insulation of the flat roof construction is estimated to be approximately 27 to 29 dB R_w .
- 3.11 Figure 3.3 shows the proposed seating area enclosure.

Figure 3.3 - Section showing proposed enclosure



- 3.12 The composite sound insulation performance of the enclosure has been predicted in Table 3.1, taking into consideration the material surface area and typical sound insulation of each element.
- 3.13 The calculation results indicate a composite sound insulation of approximately 23 dB R_w .

Table 3.1 - Predicted enclosure sound insulation performance

Title: 151 Dickenson Road											
Sound Transmission Loss (ISO 12354)											
Formula/Comment	Single Value	63	125	250	500	1000	2000	4000	8000	R_w	(C, C_{tr})
$R = -10 \log \sum 10^{-(R_{p,i}/10)}$	ΔR		17.0	15.2	16.7	24.2	26.4	27.7		23	(-1,-3)
$R_{flanking}$											
R			17.0	15.2	16.7	24.2	26.4	27.7		23	(-1,-3)
$D_{nT} = R - 10 \log (S_{tot} / A)$											
$D_{nT, flanking}$											
D_{nT}	Mass										
Materials with additional layer											
4mm glass/18mm cavity/4mm glass	32.6		21.0	17.0	25.0	35.0	37.0	31.0		29	(-1,-4)
Aluminium sheet cladding	14.9		11.0	10.0	10.0	18.0	23.0	25.0		17	(-1,-3)
Plywood flat roof	30.0		24.0	22.0	27.0	28.0	25.0	27.0		27	(-1,-1)

3.14 The sound pressure level at the nearest dwelling/flat has been calculated using the following equation:

- $SPL_2 = SPL_1 - R_w + 10 \log S - 20 \log r - 14 \text{ dB}$

3.15 Where SPL2 is the sound pressure level at the dwelling; SPL1 is the internal sound pressure level adjacent to the surface where sound breakout will occur; R_w is the weighted sound reduction index; S is the surface area of the wall/roof; r is the separation distance from the mid-point of the seating area to the nearest dwelling window (≈ 5 metres).

Sound levels generated within front enclosure

3.16 For this assessment, it is considered prudent to assume that the seating area will be at full capacity (approximately 20 to 25 customers) and is therefore a worst-case scenario.

3.17 Sample measurements undertaken at similar premises and outdoor dining areas indicate ambient sound pressure levels in the region of 62 to 72 dB $L_{Aeq,15min}$. There were approximately 20 to 30 customers present during the measurements.

3.18 The instantaneous maximum sound pressure levels were in the region of 72 to 82 dB $L_{AFmax,15min}$.

3.19 The sound levels measured at similar premises have been used for this assessment since the measured sound levels were not subjected to local road traffic noise or noise from neighbouring premises at the time of the survey (i.e. they were an accurate representation of sound generated by customers chatting/laughing alone without the influence of other noise sources).

Resulting sound pressure level at neighbouring dwelling

3.20 The predicted sound pressure level at the neighbouring flat window due to sound breakout from the enclosure is approximately 30 to 40 dB $L_{Aeq,15min}$.

- $SPL = 72 \text{ dB } L_{Aeq,15min} - 23 \text{ dB } R_w + 19 \text{ dB} - 14 \text{ dB} - 14 \text{ dB} = 40 \text{ dB } L_{Aeq,15min}$
- $SPL = 62 \text{ dB } L_{Aeq,15min} - 23 \text{ dB } R_w + 19 \text{ dB} - 14 \text{ dB} - 14 \text{ dB} = 30 \text{ dB } L_{Aeq,15min}$

3.21 During operating hours, the average ambient sound pressure level ranged between 63 to 64 dB $L_{Aeq,15min}$. The lowest measured ambient sound pressure level was 61 dB $L_{Aeq,15min}$ and the highest measured ambient sound pressure level was 74 dB $L_{Aeq,15min}$.

3.22 The typical background sound pressure level ranged between 54 to 55 dB $L_{A90,15min}$. The lowest measured background sound pressure level was 51 dB $L_{A90,15min}$ and the highest measured background sound pressure level was 58 dB $L_{A90,15min}$.

3.23 The sound pressure level generated when the enclosure is occupied is therefore significantly below the existing ambient sound pressure level and significantly below the background sound pressure level (i.e. at least 10 dB below).

3.24 It is worth noting that the maximum sound pressure level ranged between 71 to 102 dB $L_{AFmax,15min}$ and was due to passing vehicles on Dickenson Road. The average maximum sound pressure level was 81 dB $L_{AFmax,15min}$.

3.25 Maximum sound pressure levels from the enclosure are therefore also expected to be consistently below the sound levels currently generated by passing road traffic (i.e. at least 20 dB below).

- $SPL = 82 \text{ dB } L_{AFmax} - 23 \text{ dB } R_w + 19 \text{ dB} - 14 \text{ dB} - 14 \text{ dB} = 50 \text{ dB } L_{AFmax}$

3.26 On the basis of this assessment, a negligible impact is anticipated at the neighbouring dwellings due to noise breakout from the seating area enclosure.

Open windows and reduction in sound insulation

- 3.27 With the windows partially open to the seating area enclosure, it is anticipated that the composite sound insulation performance will reduce to approximately 15 dB R_w .
- 3.28 In this instance, the predicted sound pressure level at the neighbouring flat window due to sound breakout from the enclosure is approximately 38 to 48 dB $L_{Aeq,15min}$.
- 3.29 However, the sound pressure level generated is still notably below the existing ambient sound pressure level and background sound pressure level.
- 3.30 Maximum L_{AFmax} sound pressure levels from the enclosure are also expected to be notably below the sound pressure levels currently generated by passing road traffic.

4. Conclusion

- 4.1 Continuous sound level monitoring has been conducted to establish the prevailing ambient and background sound pressure levels at the front elevation during the daytime and evening period.
- 4.2 The nearest noise sensitive properties have been identified during the survey.
- 4.3 The composite sound insulation performance of the seating area enclosure has been predicted taking into consideration the material surface area and typical sound insulation of each element.
- 4.4 The sound pressure level generated when the enclosure is occupied is notably below the existing ambient sound pressure level and also notably below the background sound pressure level.
- 4.5 Maximum sound pressure levels from the enclosure are also expected to be notably below the sound pressure levels currently generated by passing road traffic.
- 4.6 On the basis of this assessment, a negligible impact is anticipated at the neighbouring dwellings due to noise breakout from the seating area enclosure.
- 4.7 There is currently only a retractable awning at the front of the property which provides negligible sound attenuation with regard to customer related noise. The enclosure will provide much greater sound attenuation and therefore notably reduce the sound levels generated by customers at the front of the property (i.e. the enclosure will be an improvement on the current situation).

Appendix A

Full tabulated survey results

Figure A.1 - Full tabulated survey results

Start Time	L _A F _{max,15min} dB	L _A eq,15min dB	L _A 90,15min dB
17/06/2025 14:00	80.21	62.29	54.83
17/06/2025 14:15	82.3	63.6	55.99
17/06/2025 14:30	98.15	71.17	57.59
17/06/2025 14:45	81.79	62.63	54.62
17/06/2025 15:00	72.67	62.5	55.21
17/06/2025 15:15	91.5	65.52	54.47
17/06/2025 15:30	80.01	62.55	53.29
17/06/2025 15:45	76.98	62.47	55.74
17/06/2025 16:00	76.71	62.32	54.9
17/06/2025 16:15	80.13	63.26	54.35
17/06/2025 16:30	90.13	66.83	55.11
17/06/2025 16:45	78.86	62.21	55.26
17/06/2025 17:00	82.94	61.97	54.45
17/06/2025 17:15	91.95	66.66	55.5
17/06/2025 17:30	83.54	64.46	55.63
17/06/2025 17:45	88.14	66.66	54.65
17/06/2025 18:00	85.79	63.32	55.15
17/06/2025 18:15	84.97	62.79	54.56
17/06/2025 18:30	75.82	62.22	55.07
17/06/2025 18:45	74.08	63.04	54.71
17/06/2025 19:00	76.77	62.74	54.76
17/06/2025 19:15	85.59	64.31	55.94
17/06/2025 19:30	94.85	70.84	55.4
17/06/2025 19:45	76.6	62.86	55.2
17/06/2025 20:00	79.53	63.29	56.38
17/06/2025 20:15	75.02	63.09	55.29
17/06/2025 20:30	82.41	63.4	54.59
17/06/2025 20:45	78.34	62.49	54.72
17/06/2025 21:00	71.86	62.39	54.49
17/06/2025 21:15	82.15	63.44	55.79
17/06/2025 21:30	78.89	62.58	54.49
17/06/2025 21:45	72.39	61.83	53.65
17/06/2025 22:00	77.18	62.67	55.21
17/06/2025 22:15	86.86	64.52	55.71
17/06/2025 22:30	91.59	66.07	52.16
17/06/2025 22:45	78.4	62.81	54.13
17/06/2025 23:00	82.4	63.06	52.47
17/06/2025 23:15	77.49	61.53	51.32
17/06/2025 23:30	82.97	62.72	52.58
17/06/2025 23:45	72.07	61.08	52.58
18/06/2025 00:00	72.35	61.15	51.6
18/06/2025 00:15	77.61	60.86	49.04
18/06/2025 00:30	82.18	63.06	49.86
18/06/2025 00:45	72.51	59.74	46.82

Start Time	L _A F _{max,15min} dB	L _A eq,15min dB	L _A 90,15min dB
18/06/2025 01:00	70.57	59.97	46.92
18/06/2025 01:15	69.35	57.62	44.63
18/06/2025 01:30	80.46	60.75	43.45
18/06/2025 01:45	69.63	58.13	45.72
18/06/2025 02:00	73.44	56.1	38.9
18/06/2025 02:15	71.19	57.35	39.6
18/06/2025 02:30	72.31	58	41.3
18/06/2025 02:45	66.53	53.87	35.81
18/06/2025 03:00	69.5	54.95	36.47
18/06/2025 03:15	73.03	55.44	39.12
18/06/2025 03:30	70.11	55.34	39.08
18/06/2025 03:45	69.6	55.41	42.28
18/06/2025 04:00	66.59	53.01	42
18/06/2025 04:15	84.11	61.03	42.01
18/06/2025 04:30	71.19	53.94	41.09
18/06/2025 04:45	86.47	59.86	40.07
18/06/2025 05:00	76.54	55.13	39.59
18/06/2025 05:15	72.35	57.16	41.82
18/06/2025 05:30	71.35	57.92	42.86
18/06/2025 05:45	79.7	57.55	43.32
18/06/2025 06:00	84.84	60.31	45.08
18/06/2025 06:15	88.94	61.4	46.53
18/06/2025 06:30	77.05	62.5	47.52
18/06/2025 06:45	72.69	61.86	49.71
18/06/2025 07:00	73.48	62.13	48.99
18/06/2025 07:15	74.53	62.74	53.13
18/06/2025 07:30	77.68	62.38	52.86
18/06/2025 07:45	71.17	63.07	54.86
18/06/2025 08:00	71.27	63.16	54.3
18/06/2025 08:15	76.75	63.25	54.74
18/06/2025 08:30	80.05	63.62	55.83
18/06/2025 08:45	80.83	63.28	55.33
18/06/2025 09:00	74.86	62.6	54.09
18/06/2025 09:15	73.32	63.16	52.97
18/06/2025 09:30	89.21	64.35	55.76
18/06/2025 09:45	76.03	62.25	54.87
18/06/2025 10:00	86.08	62.71	53.34
18/06/2025 10:15	91.37	65.98	53
18/06/2025 10:30	78.04	61.72	52.82
18/06/2025 10:45	71.81	61.56	53.78
18/06/2025 11:00	76	62.45	54.63
18/06/2025 11:15	86.92	63.51	53.24
18/06/2025 11:30	75.64	62.13	54.46
18/06/2025 11:45	73.28	61.44	54.29
18/06/2025 12:00	81.02	63.9	56.47

Start Time	L _A F _{max,15min} dB	L _A eq,15min dB	L _A 90,15min dB
18/06/2025 12:15	75.02	62.67	52.93
18/06/2025 12:30	87.08	63.86	55.11
18/06/2025 12:45	74.65	62.19	54.79
18/06/2025 13:00	76	61.59	52.47
18/06/2025 13:15	90.03	66.8	55.51
18/06/2025 13:30	83.45	63.05	54.97
18/06/2025 13:45	76.83	62.13	55.13
18/06/2025 14:00	95.28	71.25	53.31
18/06/2025 14:15	80.27	62.44	54.96
18/06/2025 14:30	84.5	62.18	55.29
18/06/2025 14:45	76.03	61.93	54.99
18/06/2025 15:00	71.11	62.21	54.07
18/06/2025 15:15	101.54	74.26	57.03
18/06/2025 15:30	81.09	62.69	54.66
18/06/2025 15:45	78.54	61.58	54.98
18/06/2025 16:00	86.94	63.05	55.48
18/06/2025 16:15	76.14	61.6	55.02
18/06/2025 16:30	83.18	61.45	53.85
18/06/2025 16:45	77.37	61.73	54.51
18/06/2025 17:00	76.75	61.94	55.76
18/06/2025 17:15	74.95	61.77	55.3
18/06/2025 17:30	79.79	61.61	56.71
18/06/2025 17:45	78.87	63.06	54.84
18/06/2025 18:00	83.68	62.64	56.47
18/06/2025 18:15	83.69	63.24	56.81
18/06/2025 18:30	76.69	62.09	54.96
18/06/2025 18:45	83.89	63.28	56.01
18/06/2025 19:00	80.3	62.21	54.6
18/06/2025 19:15	74.93	62.01	54.59
18/06/2025 19:30	79.19	63.74	55.61
18/06/2025 19:45	78.85	62.87	55.37
18/06/2025 20:00	80.36	62.35	54.16
18/06/2025 20:15	73.94	62.06	53.48
18/06/2025 20:30	78.86	62.74	54.84
18/06/2025 20:45	83.05	63.39	55.62
18/06/2025 21:00	78.5	62.49	54.78
18/06/2025 21:15	89.9	63.29	55.71
18/06/2025 21:30	85.12	62.17	54.34
18/06/2025 21:45	88.99	64.05	52.4
18/06/2025 22:00	87.8	64.21	54.45
18/06/2025 22:15	72.71	62.15	54.38
18/06/2025 22:30	84.11	62.83	54.81
18/06/2025 22:45	78.15	62.36	55.13
18/06/2025 23:00	93.47	66.49	53.06
18/06/2025 23:15	74.04	61.33	52.04

Start Time	L _{AFmax,15min} dB	L _{Aeq,15min} dB	L _{A90,15min} dB
18/06/2025 23:30	80.1	61.96	51.68
18/06/2025 23:45	73.64	61.46	52.14
19/06/2025 00:00	84.96	62.84	53.17
19/06/2025 00:15	71.7	60.43	49.64
19/06/2025 00:30	75.75	60.62	49.52
19/06/2025 00:45	73.48	59.6	48.4
19/06/2025 01:00	89.46	62.83	47.92
19/06/2025 01:15	91.51	65.1	49.16
19/06/2025 01:30	67.57	57.93	44.3
19/06/2025 01:45	88.43	62.69	43.13
19/06/2025 02:00	68.7	58.27	42.9
19/06/2025 02:15	71	57.22	39.5
19/06/2025 02:30	69.41	57.46	43.14
19/06/2025 02:45	75.92	57.6	39.62
19/06/2025 03:00	68.99	56.13	40.51
19/06/2025 03:15	69.42	54.59	38.73
19/06/2025 03:30	80.69	57.49	38.1
19/06/2025 03:45	69.92	54.1	40.51
19/06/2025 04:00	66	53.49	41.69
19/06/2025 04:15	83.47	58.48	41.68
19/06/2025 04:30	67.7	54.09	40.38
19/06/2025 04:45	71	53.51	39.08
19/06/2025 05:00	69.89	54.75	42.65
19/06/2025 05:15	68.93	56.52	43.27
19/06/2025 05:30	72.44	58.8	44.87
19/06/2025 05:45	76	57.24	42.39
19/06/2025 06:00	75.72	60.31	44.93
19/06/2025 06:15	80.36	61.28	46.75
19/06/2025 06:30	82.87	61.74	49.16
19/06/2025 06:45	73.62	61.52	49.42
19/06/2025 07:00	77.7	62.48	52.14
19/06/2025 07:15	81.65	62.52	54.04
19/06/2025 07:30	71.76	62.2	52.21
19/06/2025 07:45	83.41	63.36	55.39
19/06/2025 08:00	74.07	63.31	55.3
19/06/2025 08:15	74.5	63.64	53.87
19/06/2025 08:30	84.55	65.14	53.77
19/06/2025 08:45	88.46	64.07	55.32
19/06/2025 09:00	81.35	62.55	53.44
19/06/2025 09:15	77.15	61.99	52.69
19/06/2025 09:30	84.69	63.19	53.94
19/06/2025 09:45	83.22	63.03	51.76
19/06/2025 10:00	79.37	62.93	54.73
19/06/2025 10:15	73.93	61.56	52.74
19/06/2025 10:30	76.45	62.76	55.53

Start Time	L _{AFmax,15min} dB	L _{Aeq,15min} dB	L _{A90,15min} dB
19/06/2025 10:45	79.48	61.9	54.15
19/06/2025 11:00	74.31	61.85	53.34
19/06/2025 11:15	96.12	68	53.57
19/06/2025 11:30	91.83	65.39	53.09
19/06/2025 11:45	77.5	61.74	55.38
19/06/2025 12:00	74.56	61.94	53.71
19/06/2025 12:15	81.69	62.34	53.58
19/06/2025 12:30	76.05	61.87	54.05
19/06/2025 12:45	89.87	65.44	53.58
19/06/2025 13:00	72.97	61.02	52.52
19/06/2025 13:15	77.11	61.46	53.69
19/06/2025 13:30	79.76	62.14	54.63
19/06/2025 13:45	83.18	62.47	55.64
19/06/2025 14:00	79.44	62.01	54.48
19/06/2025 14:15	78.19	62.74	55.83
19/06/2025 14:30	81.35	63.44	54.02
19/06/2025 14:45	80.07	61.85	53.88

Appendix B

Assessment terminology

Assessment terminology

Term	Description
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 ($2 \times 10^{-5} \text{Pa}$).
dB(A)	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.
Acoustic environment	Sound from all sources as modified by the environment.
Ambient sound level	The totally encompassing sound in a given situation at a given time; it is usually composed of sound from many sources, near and far.
Background sound level	The sound level in the absence of a specific noise source under consideration (e.g. plant/machinery), measured as $L_{A90,T}$.
Specific sound source	Sound source being assessed.
Specific sound level	Equivalent continuous A-weighted sound pressure level produced by the specific sound source at the assessment location over a given reference time interval, T.
$L_{Aeq,T}$	The A-weighted equivalent continuous sound pressure level over a period of time, T. Representative of the 'average' sound pressure level over a given period (commonly used to describe the 'ambient' sound level).
$L_{AFmax,T}$	The A-weighted 'maximum' sound pressure level that occurred during a given period, T (commonly used for the assessment of occasional loud noises).