



# **Blackett Acoustics**

No i s e & V i b r a t i o n C o n s u l t a n t s

**2 GEORGE STREET, YAGOONA  
EXTENSION OF TRADING HOURS  
DEVELOPMENT APPLICATION (DA)  
ACOUSTIC ASSESSMENT**

Report No BA250310  
Version A

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Prepared for

Viet Pho Entertainment Pty Ltd  
2 George Street  
Yagoona, NSW 2199



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## GLOSSARY

Most environments are affected by environmental noise which continuously varies, largely as a result of road traffic. To describe the overall noise environment, a number of noise descriptors have been developed and these involve statistical and other analysis of the varying noise over sampling periods, typically taken as 15 minutes. These descriptors, which are demonstrated in the graph below, are defined below.

**Maximum Noise Level ( $L_{Amax}$ )** – The maximum noise level over a sample period is the maximum level, measured on fast response, during the sample period.

**$L_{A1}$**  – The  $L_{A1}$  level is the noise level which is exceeded for 1% of the sample period. During the sample period, the noise level is below the  $L_{A1}$  level for 99% of the time.

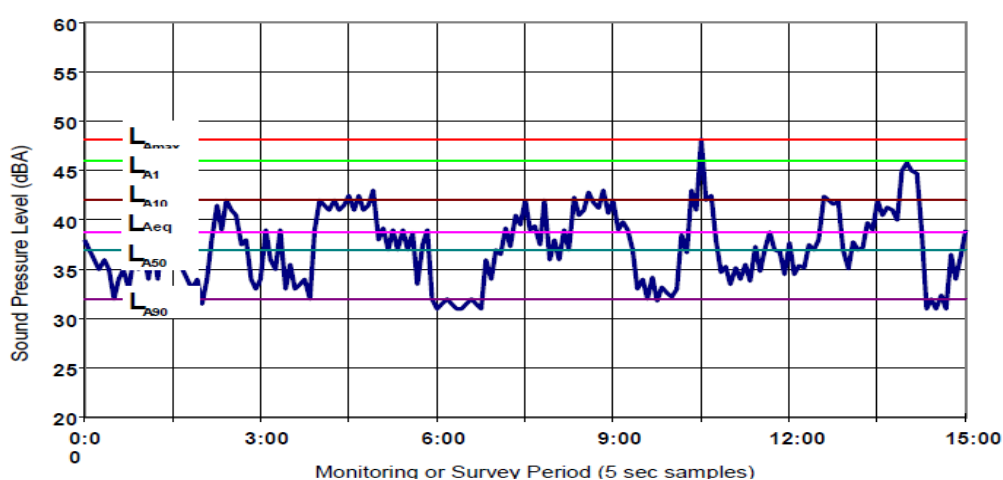
**$L_{A10}$**  – The  $L_{A10}$  level is the noise level which is exceeded for 10% of the sample period. During the sample period, the noise level is below the  $L_{A10}$  level for 90% of the time. The  $L_{A10}$  is a common noise descriptor for environmental noise and road traffic noise.

**$L_{Aeq}$**  – The equivalent continuous sound level ( $L_{Aeq}$ ) is the energy average of the varying noise over the sample period and is equivalent to the level of a constant noise which contains the same energy as the varying noise environment. This measure is also a common measure of environmental noise and road traffic noise.

**$L_{A90}$**  – The  $L_{A90}$  level is the noise level which is exceeded for 90% of the sample period. During the sample period, the noise level is below the  $L_{A90}$  level for 10% of the time. This measure is commonly referred to as the background noise level.

**ABL** – The Assessment Background Level is the single figure background level representing each assessment period (daytime, evening and night time) for each day. It is determined by calculating the 10<sup>th</sup> percentile (lowest 10<sup>th</sup> percent) background level ( $L_{A90}$ ) for each period.

**RBL** – The Rating Background Level for each period is the median value of the ABL values for the period over all of the days measured. There is therefore an RBL value for each period – daytime, evening and night time.



## 1 INTRODUCTION

Blackett Acoustics has been engaged by Viet Pho Entertainment Pty Ltd to conduct a DA Acoustic Assessment for the proposed extension of trading hours for an existing karaoke and restaurant facility within an existing function centre located in Yagoona.

Blackett Acoustics was previously involved in the preparation of the initial Development Application of this karaoke and restaurant facility back in June 2021. The report in reference is titled "2 George Street, Yagoona – Development Application (DA) Noise Assessment" (Report number BA210336 Version A). Reference will be made to the above-mentioned for the purpose of assessment noise criteria.

This report has been prepared to support the Development Application (DA) to be lodged with the Canterbury Bankstown Council.

Furthermore, this assessment has been based on:

- Site inspection and measurement of operational noise from the existing karaoke and restaurant to the surrounds.
- Establishment of noise emission levels from the karaoke and restaurant operations to the immediately surrounds.
- Comparison of noise emission levels from the karaoke and restaurant operations to established noise criteria.

## 2 SITE AND PROJECT DESCRIPTION

The Project Site is located at 2 George Street, Yagoona. The existing and proposed trading hours for the karaoke and restaurant are as below.

### Karaoke

The existing trading hours of the karaoke are restricted to:

- **Monday to Thursday** – 5.00pm to 1.00am the following day
- **Friday and Saturday** – 5.00pm to 2.00am the following day
- **Sunday** – 5.00pm to 12.00am the following day

The proposed trading hours of the karaoke are:

- **Monday to Thursday** – 5.00pm to 5.00am the following day
- **Friday and Saturday** – 5.00pm to 5.00am the following day
- **Sunday** – 5.00pm to 5.00am the following day

## **Restaurant**

The existing trading hours of the restaurant shall be restricted to:

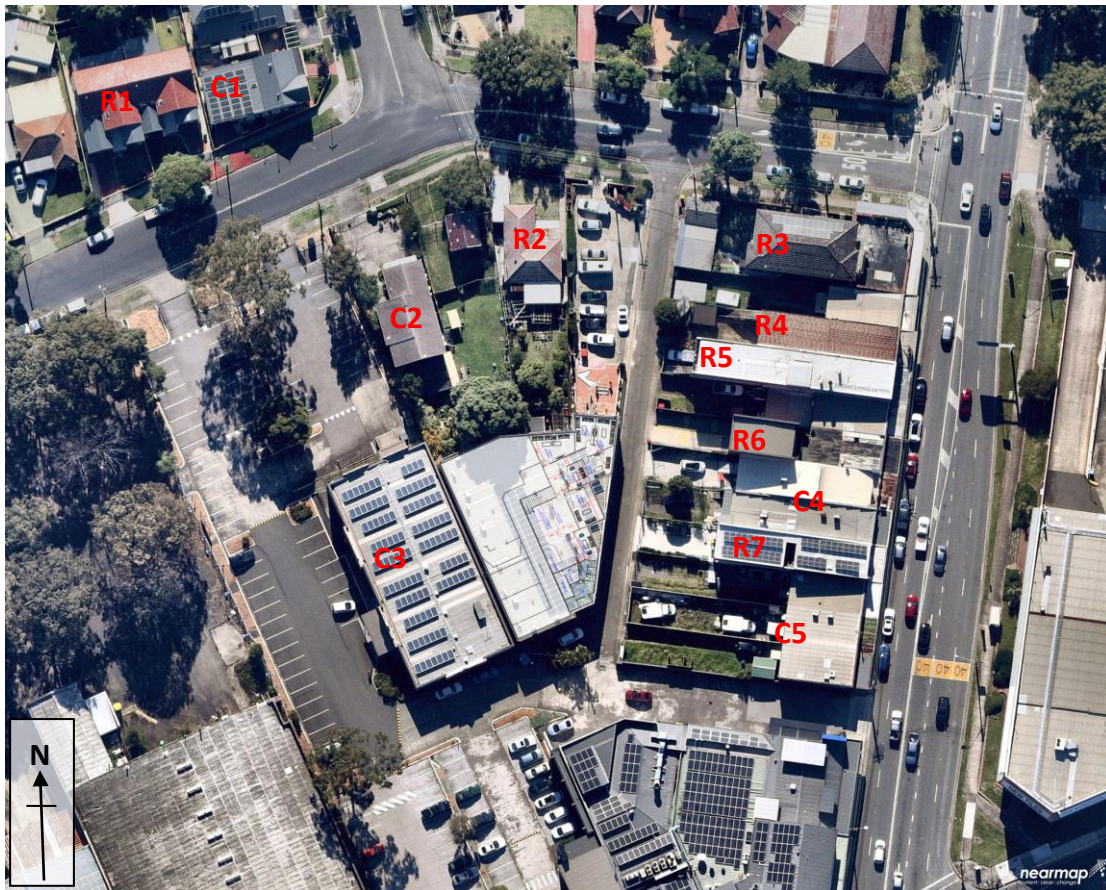
- **Monday to Saturday** – 5.00pm to 12.00am
- **Sunday** – 5.00pm to 10.00pm

The proposed trading hours of the restaurant shall be restricted to:

- **Monday to Saturday** – 5.00pm to 5.00am
- **Sunday** – 5.00pm to 5.00am

The immediately surrounding buildings are a mixed of commercial and residential buildings. The nearest surrounding noise sensitive residential receiver locations are as identified in Figure 2-1.

**Figure 2-1      Aerial of Project Site**



### 3 ESTABLISHED NOISE CRITERIA

The Project Noise Trigger Levels (PNTL) were previously established by this Office in June 2021. Table 3-1 presents the established PNTL.

**Table 3-1 Project Noise Trigger Levels (Residential Receivers) – dBA**

Established $L_{Aeq,15min}$ Project Noise Trigger Levels		
Daytime	Evening	Night Time
52	48	43

Note: Daytime (7.00am-6.00pm), Evening (6.00pm-10.00pm) and Night time (10.00pm-7.00am).

For the proposed extension of trading hours, no additional mechanical plant is being proposed. Any future additional of mechanical plant such as air-conditioning units and kitchen exhaust fans will need to achieve compliance with the established daytime, evening and night time noise criteria presented in Table 3-1.

The assessment of immediately surrounding commercial receivers will be back on an external  $L_{Aeq}$  noise criterion of **63dBA when in use**.

### 4 OPERATIONAL NOISE ASSESSMENT

This Section presents the assessment and findings which addresses the following acoustic issues:

- Project intrusiveness noise levels assessment of potential noise impact associated with the karaoke and restaurant operation noise emission to the immediately surrounding noise sensitive receiver locations.

Operator attended noise measurements were conducted on the following days:

- **Day 1** – Friday, 11 April 2025 between 10.00pm and 12.00am.
- **Day 2** – Saturday, 12 April 2025 between 11.00pm and 11.00am.

The objective was to establish the potential noise impact (if any) associated with the operation of the karaoke and restaurant to the surrounding noise sensitive receivers during night time period. The above time periods were selected in order to measure the typical worst-case scenarios as Blackett Acoustics has been advised by the Operator that Fridays and Saturdays are the busier nights of the karaoke and restaurant operations.

All noise measurements were conducted using a NTi XL2 Sound Level Meter (SLM). The sound level meter conforms to Australian Standard 1259 *Acoustics - Sound Level Meters* as a Type 1 Precision Sound Level Meter which has accuracy suitable for field and laboratory use. The A-Weighting filter of the meter was selected, and the time weighting was set to "Fast". The calibration of the meter was checked before and after the measurements with a sound level calibrator and no significant drift was noted. The weather was clear with no recorded rainfall and negligible wind.

Operator attended noise measurements were conducted in free field positions at the immediately surrounding representative receiver locations R2, R5, R7, C2 and C5.

Table 4-1 presents the measured noise levels at the surrounding noise sensitive receivers between 10.00pm and 1.00am.

**Table 5-1 Measured External Noise Levels at Surrounding Residential and Commercial Receivers – dBA**

Receiver location	Measured $L_{Aeq,15min}$ Noise Level	Comments
R2	≤34	Operation of the karaoke and restaurant were <b>inaudible</b> during time of survey. The estimate noise emission level associated with the operation of karaoke and restaurant is at least 10dBA below the measured background noise level ( $L_{A90}$ of 44dBA) and <b><u>complies with the established night time criterion of 43dBA.</u></b>
R5	≤35	Operation of the karaoke and restaurant were <b>inaudible</b> during time of survey. The estimate noise emission level associated with the operation of karaoke and restaurant is at least 10dBA below the measured background noise level ( $L_{A90}$ of 45dBA) and <b><u>complies with the established night time criterion of 43dBA.</u></b>
R7	≤35	Operation of the karaoke and restaurant were <b>inaudible</b> during time of survey. The estimate noise emission level associated with the operation of karaoke and restaurant is at least 10dBA below the measured background noise level ( $L_{A90}$ of 45dBA) and <b><u>complies with the established night time criterion of 43dBA.</u></b>
C2	≤34	Operation of the karaoke and restaurant were <b>inaudible</b> during time of survey. The estimate noise emission level associated with the operation of karaoke and restaurant is at least 10dBA below the measured background noise level ( $L_{A90}$ of 44dBA) and is well within the recommended $L_{Aeq,period}$ amenity noise level of <b><u>63dBA when in use.</u></b>
C5	≤36	Operation of the karaoke and restaurant were <b>inaudible</b> during time of survey. The estimate noise emission level associated with the operation of karaoke and restaurant is at least 10dBA below the measured background noise level ( $L_{A90}$ of 46dBA) and is well within the recommended $L_{Aeq,period}$ amenity noise level of <b><u>63dBA when in use.</u></b>

In order to prevent any potential noise emission levels associated with rowdy behaviours, signs to be installed to inform the patrons to minimise noise emission when exiting the karaoke and restaurant premises.

Based on the measured **external**  $L_{Aeq,15min}$  noise levels at the nearest residential and commercial receivers presented in Table 4-1, compliance with the established daytime, evening and night time period PNTL can be achieved on all occasions. The measured  $L_{Aeq,15min}$  noise levels at the nearest residential receivers are also within the NSW NPfI most stringent night time noise trigger level of 35dBA based on threshold background noise level of 30dBA plus 5dBA.



## 5 CONCLUSION

Blackett Acoustics has assessed the potential noise impact from the proposed extension of trading hours for the existing karaoke and restaurant premises at 2 George Street, Yagoona.

Noise measurements at the surrounding residential and commercial receivers were conducted on a Friday and Saturday night which are considered to be the busier nights of the karaoke and restaurant operations.

Based on the measured noise levels presented in Table 4-1, it can be established that the established relevant time period Project Noise Trigger Levels can be achieved on all occasions. Noise associated with the operation of the karaoke and restaurant are well within the established PNTLs at the surrounding residential receivers.

In addition, it can be established that the noise emission levels associated with the karaoke and restaurant operations can achieve compliance with the NSW Npfl most stringent night time noise trigger level of 35dBA based on threshold background noise level of 30dBA plus 5dBA.

Compliance with the established Project Noise Trigger Levels is unlikely to cause the emission of “offensive noise” as defined in the Protection of the Environment Operations Act 1997. The proposed extension of trading hours of the existing karaoke and restaurant at 2 George Street, Yagoona is unlikely to cause any adverse reactions from the surrounds.

### Note

All materials specified by Blackett Acoustics have been selected solely on the basis of acoustic performance. Any other properties of these materials, such as fire rating, chemical properties etc. should be checked with the suppliers or other specialised bodies for fitness for a given purpose.

Version	Status	Issue Date	Prepared by
A	Final	30 April 2025	Jimi Ang