138-140 OLD PITTWATER ROAD, BROOKVALE
DA ACOUSTIC REPORT
FOR
EMMMMM PTY LTD
C/- SINEAD HARMON ARCHITECT

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Contents

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1.PROJECT DESCRIPTION

1.1.REPORT TO SUPPORT DEVELOPMENT APPLICATION

This Acoustic Report has been prepared for the Development Application for the change of use of 138-140 Old Pittwater Road, Brookvale.

The report is aimed at addressing noise from the district and noise created at site.

As can be seen within this report the project is expected to meet relevant council requirements without difficulty.

1.2.REFERENCE DOCUMENTATION

The report is based on the details given in the following set of documents:

1. Sinead Harmon Architects Architectural Drawings Dated Oct 2012

1.3.DESCRIPTION OF THE SITE

The existing site consists of newly constructed warehouse to be used for the proposed new gymnastics studio. The site is in a commercial area surrounded by other commercial properties with the closest residential receiver 115m away.

Photo of site.

The existing site and surrounding area can be seen in the Google Aerial Photo below:

Google Aerial Photograph ,

1.4.CLOSEST SENSITIVE RECEIVERS

The closest sensitive receivers to this site are the buildings immediately adjacent to the site as identified below and shown on the Google aerial photo above.

The neighbouring closest sensitive receiver has been identified below:

- Location #1, Residential apartment complex adjacent at 39 Lyla Road.

1.5.DISTRICT BACKGROUND NOISE

District background noise in the immediate location of the proposed site is dominated by road traffic noise.

Other noise in the area is mechanical services noise in the form of air conditioning and ventilation fans serving the surrounding areas.

1.6.TRAFFIC NOISE AT PROJECT LOCATON

The most dominant background noise for this project is road traffic noise from local roads.

1.7.PROPOSED HOURS OF OPERATION

The proposed hours of operation is as follows;

- Monday –9.00am-8.00pm
- Tuesday – 9.00am-8.00pm
- Wednesday – 9.00am-8.00pm
- Thursday –9.00am-8.00pm
- Friday – 6.00am-8.00pm
- Saturday – 8.00am – 5:00pm
- Sunday – 9.00am – 5:00pm (Appointment oOnly)

2.NOISE CRITERIA

2.1.NOISE POLICY FOR INDUSTRY

The Noise Policy For Industry 2017 documents the requirements for determining the Noise Trigger Level and Sleep Disturbance.

3.NOISE MEASUREMENTS

3.1.DISTRICT BACKGROUND NOISE MONITORING LOCATION AND TIME

The fifteen minute continuous L_{Aeq}, L_{A90}, and L_{A1} descriptor background noise monitoring was carried out at the rear of site between 9:45 AM 28/02/2025 and 10/03/2025 13:30 PM.

The log of the results of background noise monitoring for the roof are shown in Appendix 1. Raw data is available upon request.

3.1.1.Monitoring, Calibration and Calculation Procedures

In accordance with the procedures laid out in AS 1055.1 field calibration check of the environmental noise logger was carried out immediately prior to and at completion of monitoring sessions and instrument was found to be within the specified limits.

A microphone wind-guard was in place for the full duration of the monitoring and so no correction factor required.

The 15 minute L_{Aeq} and L_{A90}, log results were down loaded and single figure L_{A90} representative values calculated using Microsoft Excel software in accordance with the procedures given in the INP for the day(7AM to 6 PM), the evening period, (6 PM to 10 PM) and the night time period, (10PM to 7 AM) and single figure L_{Aeq} over the days monitored.

3.1.2.Environmental Conditions During Monitoring

Temperatures on site were between 10 to 30°C for the logging period.

Metrological data including temperature, barometric pressure, wind speed at site were not outside the recommendations of AS 1055 and INP and so the L_{A90} measurements are considered valid

The resulting L_{A90} log averages over the period monitored was then used to determine the Intrusiveness Criteria. The resulting L_{AEq} log averages over the period monitored was then

calculated and used to determine the Amenity Criteria. The Project Specific Noise Level for the site was determined as the lesser of the Intrusiveness and Amenity Criteria.

4.NOISE POLICY FOR INDUSTRY

4.1.EXTERNAL NOISE LEVEL DETERMINATION IN ACCORDANCE WITH NOISE POLICY FOR INDUSTRY 2017 - NOISE TRIGGER LEVEL

4.1.1.Single Figure Results

The Noise Policy for Industry 2017(NPFI) requires:

- Intrusiveness Criteria be determined by calculating the Rated Background Levels **(RBL)** over the days monitored. We used the 5 days of 15 minute noise logging at site found in Appendix 1 to determine the background, the LA90 background noise logged result reflected a reliable background level. Being measured adjacent to Closest Sensitive Receiver #1.
- The Project Trigger Noise Level or external noise criteria for the project is determined as the lesser of the Intrusiveness and Amenity Criteria for the site for each period of the day.

Table 1; Noise Monitoring Results - Front of Site

Period times	**Day (0700 to 1800)**	**Evening (1800 to 2200)**	**Night (2200 to 0700)**
Location 1 RBL $L_{A90\ 15\ min}$-❶	43.6	39.8	38.3
Intrusiveness Criteria $L_{AEq\ 15\ min}$ RBL + 5	49	45	43
Project Amenity Noise Level at Commercial receivers $L_{AEq\ 15\ min,\ (Commercial}$ Table 2.2 NPFI)	65	65	65
Project Amenity Noise Level at Closest Sensitive receivers $L_{AEq\ 15\ min,\ (Suburban}$ Table 2.2 NPFI)	55	45	40
Selected Project Trigger Level	55	45	40
Project Trigger adjacent to closest residence	55	45	40
$L_{AEq\ 15\ min,}$ day period Local Road Traffic	55-5+3=53❷	45-5+3=43❷	40-5+3=38❷
Industrial Noise Trigger Level(PSNL) $L_{AEq\ 15\ min}$ =stricter of Intrusiveness and Amenity Criteria $_R$	**49**	**43**	**38**

❶ *RBL at Boundary LA90 T=15 min from Appendix 1 results*

❷ *Site Noise, Additional 3 dB added to LAEq T=15 min measured value from Appendix 1 results*

4.1.2.Project Trigger Noise Level for this Project

The PTNL based on unattended noise logging over the period is therefore taken as **49 dB(A)** in the day period, **43 dB(A)** in the evening period and **38 dB(A)** in the night period to be measured as a $L_{AEq,\ t=15\ min}$ descriptor.

4.2.SLEEP DISTURBANCE

The noise policy for industry under section 2.5 - Maximum Noise Level Event Assessment states the following:

The potential for sleep disturbance from maximum noise level events from premises during the night-time period needs to be considered. Sleep disturbance is considered to be both awakenings and disturbance to sleep stages.
Where the subject development/premises night-time noise levels at a residential location exceed:

- *$L_{Aeq,15min}$ 40 dB(A) or the prevailing RBL plus 5 dB, whichever is the greater, and/or*
- *L_{AFmax} 52 dB(A) or the prevailing RBL plus 15 dB, whichever is the greater,*

As the internal calculated noise levels are within the 35dB(A) the criteria is met.

5.NOISE FROM PROPOSED DEVELOPMENT

5.1.SOURCES OF NOISE FROM SITE

5.1.1.Potential New Mechanical Services Noise

Mechanical Services that may be generated at site will include the following:

- Bathroom exhaust
- Air Conditioning with outdoor air /ventilation

5.1.2.Vehicle Noise

The main drive way for site is located on Old Pittwater Road where vehicles will be entering and exiting.

5.1.3.Operational Noise

The main operational noise from site is expected to be general activity noise created by carrying out Gymnastic exercise. We have been advised that there is no intention to have amplified music for site.

5.2.MECHANICAL SERVICES NOISE LEVELS

5.2.1.External Noise levels from Building Plant

The DA drawings do not include any details of the proposed mechanical Services to be installed, therefore we are unable to evaluate this equipment to determine compliance. In order to meet compliance the external noise levels produced by the mechanical services plant on site which includes the bathroom exhaust fans, air conditioning units /ventilation fans must comply with the Project Trigger Noise level requirement for the building which is given in table 1.

5.3.VEHICLE NOISE

The site includes access for a small amount of vehicles on site, however due to its location on Old Pittwater Road vehicle noise generated by the use of site would be negligible to local noise in the vicinity. This is due to the high level of vehicle traffic along Old Pittwater Road.

5.4.OPERATIONAL NOISE

5.4.1.Operational Noise Levels

As the proposed type of use for site is a gymnastic studio it is likely that noise will be generated via an amplified system. We believe this would be similar in nature to a Gym and therefore have nominated an internal noise level of 70dB(A) for the music.

5.4.2.Operational Noise On Closest Sensitive Receivers

Based on the above we have calculated the noise at closest sensitive receivers within the below table;

Table 2: Summary of Mechanical Noise Intrusion for Closest Sensitive Receivers

Source Location	Closest Sensitive Receiver	Noise Level	PSNL	Calculated Noise Level	Compliance with Criteria
Internal Occupancy	Adjacent Commercial	70dB(A)	65dB(A)	55dB(A)❶	**Yes**
Internal Occupancy	Receiver 1	70dB(A)	49 / 43 / 38 dB(A)	26dB(A)❶	**Yes / Yes / Yes**

❶ *Calculated with 10dB(A) reduction through an open window to boundary.*

6. FINAL COMMENTS

6.1.FINAL COMMENTS

As can be seen above we expect that the use of site as a gymnastics facility would comply with both noise levels within the commercial area and background noise levels at the closest sensitive receiver.

Due to this we have no acoustic recommendations.

End of Report

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ATTACHMENT 1