

23 March 2020

WM Project Number: 20163
Our Ref: SG 230320 sepp.docx

Sean Gartner
Gartner Trovato Pty Ltd
Suite 13, L1 Pittwater Place
MONA VALE, NSW 2103

Dear Sean

Re: 17-19 Anzac Ave, Collaroy - Traffic Noise Impact

Northern Beaches Council has requested a traffic noise assessment for the above development, that consists of a 3-storey shop top development, with respect to the State Environmental Planning Policy (Infrastructure) 2007.

Therefore the building must be designed to meet the internal noise level criteria provided in:

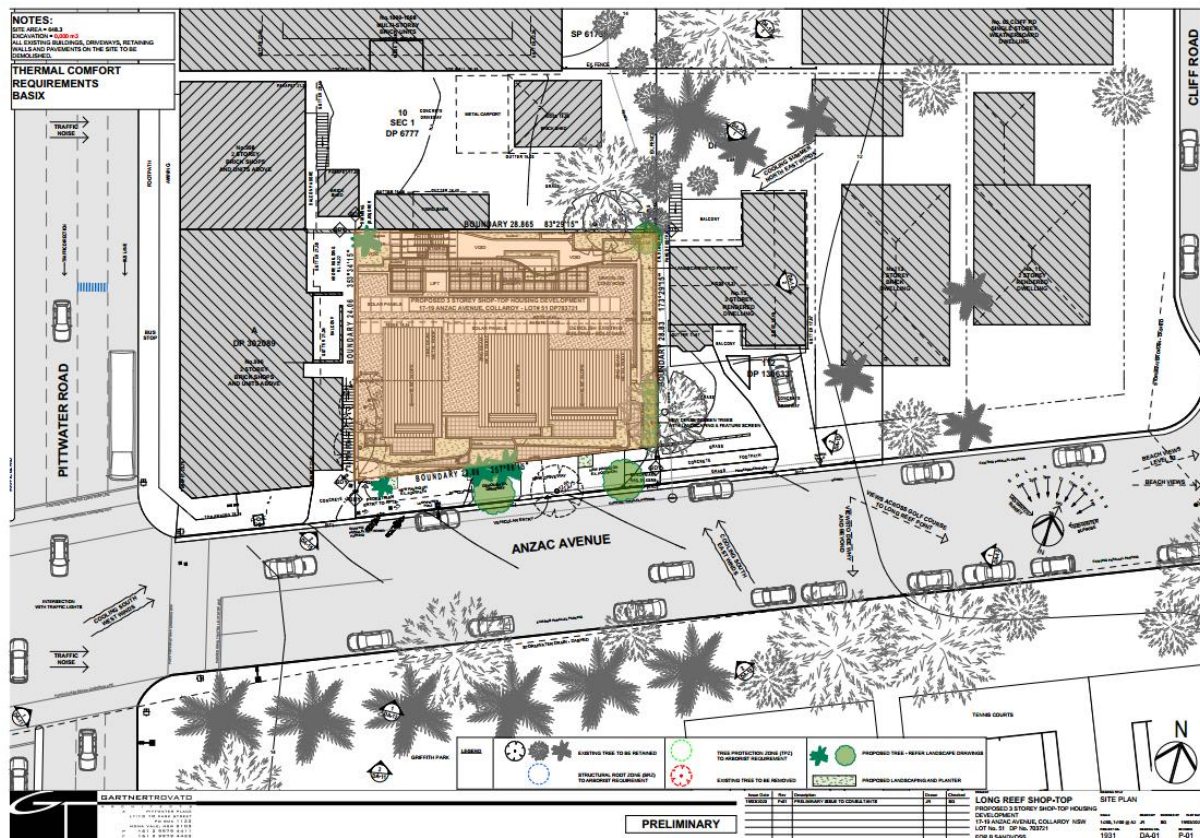
1. State Environmental Planning Policy (Infrastructure) 2007; and,
2. 'Development near Rail Corridors and Busy Roads - Interim Guideline' produced by the NSW Department of Planning.

Accordingly Wilkinson Murray Pty Ltd has been engaged to conduct an assessment of road noise from the nearby Pittwater Road in accordance with the above requirements.

1 SITE DESCRIPTION

The site is on Anzac Street is to the east of Pittwater Road and separated from the road by a 2 storey commercial building. The southern side of the site faces Griffith Park and is therefore subject to road traffic noise from part of Pittwater Road. Figure 1 shows the area location.

Figure 1: Location of Site

Figure 2: Proposed Site Plan

2 SITE REVIEW

The proposed development is at least 35 -40 metres from the nearest major road, being Pittwater Road. In accordance with the Department of Planning's "*Development near Rail and Busy Roads – Interim Guidelines 2008*" and a typical AADT traffic flow of 40,000 vpd day the site can be categorised as Category 3 / 4 in accordance with the following screen test:

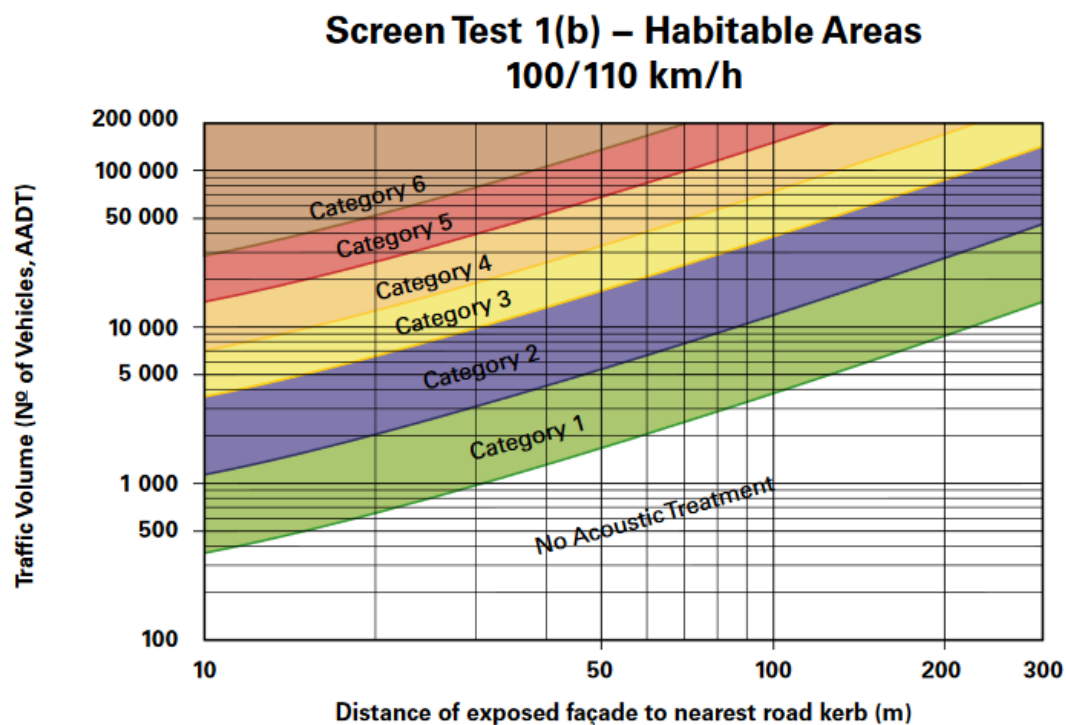








Figure 3.3(b): Screen tests for habitable areas of single/dual occupancy dwellings (if any exposed façade is direct line-of-sight)

It is noted that the categories apply to any façade that is direct line of sight of the roadway. However given that the angle of view to the southern most affected façade of the development is halved from 180 degrees to 90 degrees the application of Category 3 is warranted.

3 NOISE TREATMENTS.

The standard mitigation measures consistent with Road Noise Control Treatment Category are shown in the following figure:

Category No.	Building Element	Standard Constructions	sample
3	Windows/Sliding Doors	Openable with minimum 6.38mm laminated glass and full perimeter acoustic seals	
	Frontage Facade	Brick Veneer Construction: 110mm brick, 90mm timber stud or 92mm metal stud, minimum 50mm clearance between masonry and stud frame, 10mm standard plasterboard internally.	
		Double Brick Cavity Construction: 2 leaves of 110mm brickwork separated by 50mm gap	
	Roof	Pitched concrete or terracotta tile or sheet metal roof with sarking, 1 layer of 13mm sound-rated plasterboard fixed to ceiling joists, R2 insulation batts in roof cavity.	
	Entry Door	45mm solid core timber door fitted with full perimeter acoustic seals	
	Floor	Concrete slab floor on ground	

Alternative constructions that achieve the same acoustic ratings may be selected at design stage provided the following acoustic ratings are achieved.

- Windows / Glass Doors Rw 32
- Front Façade Rw 52
- Roof Rw 46

The final design can be reviewed at detail design stage to ensure that the selected building components meet the above constructions or acoustic rating. It should be noted that the above requirements apply only to the southern façade of the development.

I trust this information is sufficient. Please contact us if you have any further queries.

Regards

WILKINSON MURRAY



Brian Clarke

Senior Associate