

REVERB ACOUSTICS

Noise and Vibration Consultants

Our Ref: 08-1223-L3

2 March 2022

Hometown Australia
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REQUEST FOR ADDITIONAL INFORMATION (ACOUSTICS) THE PINES PARK MODIFICATION – 8 HEARNES ROAD, WOOLGOOLGA

This letter has been prepared in response to a request for additional information by NSW Department of Planning and Environment (DPE) for "The Pines" Caravan Park, 8 Hearnese Lake Road, Woolgoolga. This letter is to be read in conjunction with Reverb Acoustics Report 08-1223-R2, dated September 2009 (referred to as RA-R2 in this letter). Further information is presented below:

DPE REQUEST: *It has been identified upon the review of documentation that the plans submitted with MP08_0005-Mod-2 have not included a previously approved acoustic fence along the western and part of the southern boundaries. It is also noted that site 1 is in closer proximity to what was previously assessed under the acoustic assessment submitted with MP08_0005 (prepared by Reverb Acoustics, September 2009). It is requested that an addendum to this report be prepared to outline the suitability of site 1 with respect to the traffic noise.*

REVERB RESPONSE: Hometown Australia (HTA) have informed Reverb Acoustics that all new dwellings will comply with the acoustic requirements detailed in Condition C38 of Development Consent, which states the following:

C38. Noise Management

Moveable dwellings shall include in their design noise reduction construction materials as recommended in the Reverb Acoustic Noise Impact Assessment contained in the EA and in accordance with AS/NZS 2107-2000 "Acoustics-Recommended Design Sound Levels and Reverberation Times for Building Interiors" such that all habitable rooms under ventilated conditions within moveable dwellings other than sleeping rooms comply with the noise objectives of 45dB(A) LAeq(15hr) and 40dB(A) LAeq(9hr). All sleeping rooms within moveable dwellings are to comply with the noise objective of 35dB(A) Leq(9hr).

Section 6 of the provides acoustic recommendations to ensure noise levels within future dwellings achieve the requirements of C38, i.e. walls roof, ventilation, etc. Acoustic fences have also been recommended as follows (also see attached Masterplan):

Location	Height above FGL (mm)
West Boundary	2400
South Boundary (PART)	1800

Building Acoustics-Council/EPA Submissions-Modelling-Compliance-Certification

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The acoustic fence extends north along the west boundary sufficient distance to provide equivalent attenuation of road traffic noise for Lot 1, afforded to other Lots further south.

Lot 1 is equivalent in location in relation to the Pacific Highway as previous Lot 7 (see RA-R2 report) and current Lot 10 (see attached Masterplan). Therefore providing equivalent noise control modifications are incorporated into the design, compliance will be achieved. For reference, part of Table 4, taken from the RA-R2 is reproduced below, which applies to Lot 1:

Glazing Systems: Type A: Single-glaze 3-4mm clear float glass.
Type B: Single-glaze 6-8mm clear float glass.
Type C: Single glaze laminated glass.
Type F: Double glazed system, Insulating Glass Unit (IGU) or Magnetite system.

The recommended construction shown in the following Tables should be used as a guide only. The supplier of the window/door must be able to provide evidence from a registered laboratory that the complete window/door assembly will achieve the specified Rw performance.

Table 4: Recommended Construction

Facade	Room	Description	Required Rw	Typical Glazing System
Lots 1-32				
West	Bed	Window	26	Type B
	Liv/Din	Wind/Sl. Door	24	Type B
	Bath/WC/Lndry	Window	<20	No acoustic requirement
North/South	Bed	Window	24	Type B
	Liv/Din	Wind/Sl. Door	22	Type A or B
	Bath/WC/Lndry	Window	<20	No acoustic requirement
East	All	All	-	No acoustic requirement

NOTE: The nominated Rw rating must be achieved for the entire window suite for compliance.

We understand that HTA has contracted new house builds and provided a copy of the acoustic report and this letter to ensure compliance with the acoustic requirements of the Consent without amendment. We further understand that HTA will construct acoustic barriers as specified in the RA-R2 report.

In conclusion, providing the recommendations detailed in Sections 6.1, 6.3, 6.4, 6.5, 6.6 of the RA-R2 report and nominated Rw ratings detailed in Table 4 above are satisfied, Condition C38 will be satisfied. We therefore see no acoustic reason why approval should be denied.

We assume this concludes our involvement in the project thus far. However, should you require further assistance, please contact the undersigned.

Steve Brady M.A.S.A. A.A.A.S.
Principal Consultant

