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North Shore Private Hospital - East Tower Expansion - Response to EPA Comments

1 INTRODUCTION

This letter is in response to the EPA letter (EPA Ref: DOC17/207116-04) from Mark Hanemann, dated the 10th of May 2017.

2 RESPONSE

Acoustic Logic Consultancy agree with the EPA that detailed acoustic design work needs to be done and that reporting should be submitted prior to construction.

2.1 OPERATIONAL NOISE

The level of detail provided in the DA stage report included a breakdown of key equipment items, construction processes, likely noise impact and potential treatment options.

The level of detail included was as much as can be practically provided prior to development approval as there will not have been selection of equipment items, or appointment of a contractor/determination of construction processes. This is entirely consistent with projects of this nature.

Notwithstanding, given our experience with similar projects (coupled with preliminary input from the project team) we have presented a preliminary assessment which shows that it is feasible for the development to comply with the project noise emission goals. Further, vibration isolation of the

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mechanical plant and equipment will be required for it to comply within the building which will mean that compliance will be achieved in neighbouring buildings as well. A particular assessment of noise and vibration from the proposed mechanical plant and equipment will need to be prepared and submitted prior to the commencement of construction to ensure ongoing compliance with the project acoustic goals.

Compliance with the EPA noise emission goals (intrusiveness and amenity – Tables 3 and 5 our report) will be achievable.

2.2 CONSTRUCTION NOISE

Regarding construction noise and vibration, the particular noise and vibration impacts from the construction works will depend on the particular methods proposed to be employed by the demolition/building contractor.

These cannot be assessed until after the contractor is appointed.

Despite this, the report identified the likely construction activities and provided predictions of the likely level of noise generation.

Once the builder has been appointed (typically following project approval and completion of primary design work), a detailed Construction Noise and Vibration Management Plan can then be prepared.

Noise levels at nearby residences was predicted to be below the Highly Noise Effected level and typically use of respite periods (which will prolong the construction period if adopted unnecessarily) should not be required. Noise and vibration impacts on other buildings within the hospital precinct would be a matter of negotiation between the various parties and cannot be done prior to the construction methods being at least identified.

3 CONCLUSION

Acoustic Logic Consultancy have prepared an acoustic assessment for the proposed North Shore Hospital East Tower Expansion, in which the project noise and vibration goals have been nominated. During the detailed design process the particular treatments and/or management controls for compliance with those goals will be determined. Follow up reports (Mechanical Noise and Vibration Assessment; and Construction Noise and Vibration Management Plan) will need to be submitted prior to the commencement of construction.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'H Pearce', is written over a faint, large, light-grey watermark that says 'Draft' diagonally across the page.

Acoustic Logic Consultancy Pty Ltd
Hilary Pearce