

17th December 2021

Ref: SY190518-AUL02-A

Hansen Yuncken
Building 1, L3, 75-85 O'Riordan Street
Alexandria NSW 2015

ATTN: Lee Moran

Dear Lee,

Re: Acoustic Assessment – Noise Assessment at East Leppington Public School

Northrop Consulting Engineers (Northrop) Acoustics have been engaged by Hansen Yuncken to assess the new East Leppington Public School located at Commissioners Dr & Elkhorn St, East Leppington NSW 2179 for compliance with consent conditions relating to noise. The report summarizes the measurement results and provides an assessment of noise impact in relation to the consent conditions and recommended noise level criteria.

Project Criteria

Consent Conditions

The following consent conditions pertaining to noise and acoustics have been prescribed:

E8 The Applicant must undertake short term noise monitoring in accordance with the Noise Policy for Industry where valid data is collected following the commencement of use of each stage of the development. The monitoring program must be carried out by an appropriately qualified person and a monitoring report must be submitted to the Planning Secretary within two months of commencement of use of each stage of the development (or other timeframe agreed to by the Planning Secretary) to verify that operational noise levels do not exceed the recommended noise levels for mechanical plant and for the use of the multipurpose hall outside of school hours identified within Acoustic Report for School Building – East Leppington Public School dated 20 February 2020 and prepared by Northrop. Should the noise monitoring program identify any exceedance of the recommended noise levels referred to above, the Applicant is required to implement appropriate noise attenuation measures so that operational noise levels do not exceed the recommended noise levels or provide attenuation measures at the affected noise sensitive receivers.

Project Noise Trigger Levels

The Project Noise Trigger Levels at the boundary of the nearest affected residences as determined in the Acoustic Report for SSDA are shown in Table 1, below.

Table 1 Project noise criteria

Assessment period	Project Noise Trigger Levels – dB(A)
Day (7:00am – 6:00pm)	48 L _{Aeq} , 15 minute
Evening (6:00pm – 10:00pm)	43 L _{Aeq} , 15 minute
Night (10:00pm – 7:00am)	38 L _{Aeq} , 15 minute

Measurements

The survey was conducted with an NTI XL2 Precision Integrating Octave Band Sound Level Meter (and windshield), Type 1 with 1/3 Oct band filter unit, which conforms to applicable standards of IEC 61672-1:2002-05 CLASS1 & IEC 60651 TYPE1. Equipment was calibrated before and after the measurements. No calibration deviations were recorded.

Measurements were conducted on Tuesday 14th December 2021 between 4pm and 4:30pm to assess noise emissions from the use of the multipurpose hall for out of school hours care upon the nearest affected receivers at Commissioners. Measurement location was selected to be 73 Commissioners Drive as it is the nearest to the hall.

At the time of measurement the weather was good, calm and dry. At the time of visit, traffic noise from Willowdale Drive was present so 15-minute measurements were not possible. Shorter measurements were undertaken while there were breaks in traffic noise and measured to be L_{Aeq} 48 dB(A).

Assessment

Noise levels are found not to exceed the day time Project Noise Trigger Levels at the nearest affected receivers at 73 Commissioners Drive. The out of school hours care is operational only within the day period with operational hours 3:30pm to 6pm. The assessment was undertaken during the day; hence this report assesses noise levels for daytime only.

Conclusion

On site measurements indicate that the cumulative noise from the operation of the hall from out of hours school care at the nearest affected residences do not exceed the recommended Project Noise Trigger Levels for the day period, hence comply with consent condition E8.

Yours sincerely,



Isabella Adlington
Acoustic Consultant
Northrop Consulting Engineers

Date	Rev	Issue	Author	Verifier
17.12.2021	A	Preliminary	I. Adlington	J. Ameli