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Atkins Acoustics and Associates Pty Ltd.

Consulting Acoustical & Vibration Engineers

ENVIRONMENTAL NOISE AUDIT
INGHAMS BERRIMA FEEDMILL
JANUARY 2023

This report presents the results and findings of an environmental noise audit conducted for Inghams Berrima Feedmill. As a result of previous investigations, it was agreed with Berrima Management that the audit be undertaken to represent the noise exposure at or in proximity of the closest residential dwellings. Two (2) reference residential properties have been identified and adopted for assessing noise and compliance status. We are advised that the *Chelsey Park* property was acquired by Boral and the residential dwelling demolished.

The noise audit was undertaken on Tuesday morning 24 January 2023. Weather conditions reported for the Moss Vale (BOM Station 068239) during audit (05.30am – 06.45am) were NNW breeze (3m/sec), light cloud clearing, air temperature 15°C and relative humidity 95%.

The *EPA Licence Condition (Licence No 11261)* relating to noise for the Berrima Feedmill states the following:

- L2.1 Noise from the premises must not exceed a LAeq(15 minute) noise emission criterion of 40dB(A) at any time.*
- L2.2 Noise from the premises is to be measured at any point on or within the residential boundary or at any point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the LAeq(15 minute) noise limits in condition L6.1. The modification factors presented in Section 4 of the NSW Industrial Noise Policy January 2000 shall also be applied to the measured noise levels where applicable.*
- L2.3 The sound pressure level of noise (L_{Amax}) emitted from the premises must not exceed the background sound pressure level (LA₉₀, 15minutes) by more than 15dB(A) between the hours of 10:00pm and 7:00am.*

L2.4 Noise from the premises is to be measured at any point within one metre of the façade of the most affected residential premises to determine compliance with condition L2.3.

At the time of the audit, we were advised that the plant was operating normally.

Measurements were conducted at the four (4) reference locations shown in *Attachment 1*. NM1 and NM4 are non-residential locations selected for assessing noise trends associated with the Feedmill. *Table 1* presents a summary of the measurement results and the estimated L_{Aeq} contributions from Inghams Feedmill.

Table 1: Night-time Noise Audit Results

Reference Location	Sound Pressure Levels									
	Measured Ambient Sound Pressure Level	Ingham Feedmill Calculated Contribution	Octave Band Centre Frequency							
			20x10 ⁻⁶ Pa							
$L_{Aeq,15min}$	$L_{Aeq,15min}$	63	125	250	500	1K	2K	4K	8K	
NM1 Chelsey Park*	48.4	<40	57.0	51.2	47.6	46.9	44.2	36.7	34.0	37.4
NM2 Brookdale Road	48.7	<38	50.6	44.9	39.6	38.3	40.4	46.4	32.1	30.0
NM3 Douglas Road	39.1	<36	50.7	43.4	37.5	36.9	34.5	27.0	25.1	30.8
NM4 Berrima Road*	55.0	<35	56.0	51.0	43.2	38.9	40.2	51.8	48.9	27.8

* Non-residential locations

Noise sources identified during the Tuesday morning site-attended audit at Chelsey Park (NM1) included Inghams Feedmill, Blue Circle Cement, insects, birds and road traffic. At Brookdale Road (NM2) noise sources identified included Blue Circle Cement, road traffic, birds and insects. At Douglas Road (NM3) noise sources identified included Inghams Feedmill, Blue Circle Cement, insects, birds and road traffic. At the Berrima Road (NM4) monitoring location noise sources identified included Blue Circle Cement, insects and road traffic. During the audit noise from the Feedmill was not tonal or impulsive at the residential measurement locations (NM2 and NM3).

The findings of the noise audit confirmed the $L_{Aeq,15min}$ contributions from Inghams Berrima Feedmill at the referenced residential locations (NM2 and NM3) were less than 40dBA and satisfied Condition L2.1 of the *EPA Licence*. With respect to Condition L2.3, the L_{Amax} noise contributions from Inghams did not exceed the background L_{A90} level by more than 15dBA and satisfied the *EPA Licence* condition.

ATKINS ACOUSTICS & ASSOCIATES PTY LTD.

ATTACHMENT 1: NOISE MEASUREMENT LOCATIONS

