



Adelaide Brighton Cement Ltd

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QUARTERLY NOISE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 15/11/2023– Quarter 3 2023

EPA Licence 1126: Noise Management Plan (U - 1551)

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 15 November 2023

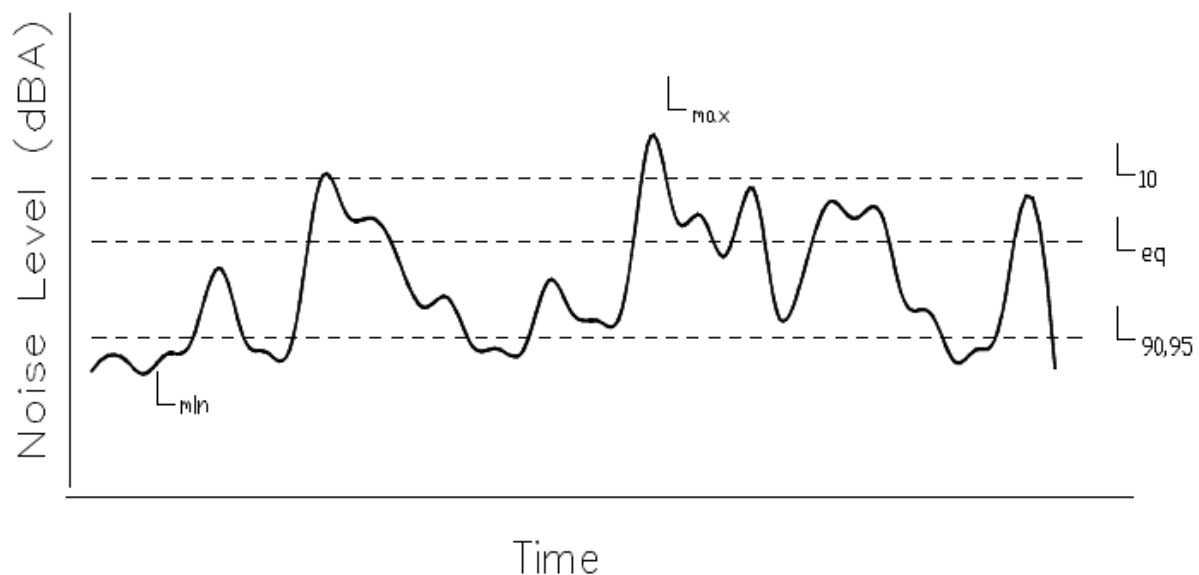
Version Number: 1



Report Submitted by: Advisor Environment - C&L (SA/NSW/NT)

Glossary of acoustic terminology

- dB(A)** A unit of measurement, decibels(A), of sound pressure level which has its frequency characteristics modified by a filter ("A-weighted") so as to more closely approximate the frequency response of the human ear.
- L₁** The noise level which is equalled or exceeded for 1% of the measurement period. L₁ is an indicator of the impulse noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
- L₁₀** The noise level which is equalled or exceeded for 10% of the measurement period. L₁₀ is an indicator of the mean maximum noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
- L₉₀** The noise level which is equalled or exceeded for 90% of the measurement period. L₉₀ is an indicator of the mean minimum noise level, and is used in Australia as the descriptor for background or ambient noise (usually in dBA).
- L_{eq}** The equivalent continuous noise level for the measurement period. L_{eq} is an indicator of the average noise level (usually in dBA).
- L_{max}** The maximum noise level for the measurement period (usually in dBA).



Note: *The subjective reaction or response to changes in noise levels can be summarised as follows:*

A 3 dB(A) increase in sound pressure level is required for the average human ear to notice a change; a 5 dB(A) increase is quite noticeable and a 10 dB(A) increase is typically perceived as a doubling in loudness

Monitoring Objective	<p>The quarterly report will include where applicable:</p> <ul style="list-style-type: none"> • Details of noise complaints (excluding complainant name and identifying address details for reasons of confidentiality), received during the quarter including the outcomes of the complaint investigation and where applicable, corrective actions implemented. • Details on the progress of noise attenuation projects including effectiveness. • Details of noise monitoring reports. • Details of noise minimisation activities.
Monitoring Plan	<p>This monitoring report complies with the Noise Management Plan approved on 2 August 2023 by the SA EPA.</p> <p>The Plan is available on the ABC Birkenhead Community Website: https://adelaidebrightoncommunity.com.au/</p>
Noise Monitoring Reports	<p>No Noise reports in this reporting period</p>
Noise Minimisation Activities	<p>No noise minimisation activities in this reporting period</p>
Noise Complaints Summary	<p>There were 3 complaints for the reporting period.</p> <p>The table below summarises the noise complaints for the reporting period.</p>

Date / Time of occurrence	Location	Description	Action Taken	Weather conditions at time of				Complaint response	
				Temp C	Wind Direction	Wind Speed m/s	Rain fall	Date/time received	Response Date/time
16/07/2023 17:42 pm	Walton Street ? Birkenhead	High pitched squeal	Walked the site Western boundary at the time of the complaint. No unusual noise noticed. Plant running normally Wind blowing towards ABC It is understood the resident lives close to the Birkenhead site in Walton Street near OTR?	12	SSW	1.4	-	16/07/23 17:42 pm	Unable to contact resident as no contact details were provided
15/08/2023 23:00 pm	Exeter	Noise at night after last few nights, Dull roar coming from factory, factory in Birkenhead	Patrolled around tower and perimeter boundary of factory. Some noise coming from reclaiming shed. Further investigation revealed a noisy roller on LR2 - maintenance already planned to replace roller. Follow up call to resident on 25/8/23 as noise description did not correspond with a noisy roller. Resident has lived in the area for a number of years, but has recently noticed a dull roar late at night that goes on for several hours (typically 10/11 pm through to about 3 am) which they are associating with ABC. Resident said they noticed the noise again on 24/08/2023. Weather conditions on the 24/08/23 at 11 pm - Wind speed 1.1 m/s, E direction (from ABC towards resident), temp 13 C, no rainfall - very similar to the noise complaint on the 15/8/2023. Resident indicated that they live in Exeter (did not want to provide address) - about 1 km from the plant. They had looked at ABC community website at the noise reports, and had noticed the nearest monitoring point to them was R4. Noise levels from past surveys at location R4, show night time noise levels about (42-45 dBA) compared with EPA night time noise criteria of 49 dBA. Plant operations on both occasions was normal, stable, with no startup of major pieces of plant/equipment. There hasn't been any changes to plant or operation recently that could be the attributed to the noise that they have noticed. Suggested to the resident that in future they ring the 24/7 hotline number and request get an immediate call back as this might help the plant identify potential noise sources	13	E	1.7	-	15/08/2023 23:00 pm	Resident appreciated the responses provided
03/09/2023 13:06 pm	Alfred Street Birkenhead	"Beeping from trucks or some thing all morning"	Rang resident back immediately but did not answer. Followed up mobile equipment movements at the time and identified that there had only been 2 raw material truck deliveries that morning. RDF deliveries were the only other trucks movements on site. These vehicles do not reverse on ABC site - so the beeping noise was not associated with these movements. Unable to find the source of the beeping noise. Wind blowing parallel to ABC.	18	N	2.2	-	03/09/2023 13:06 pm	Rang Resident back immediately but did not answer. Tried calling resident several times on subsequent days - themobile has incoming call restrictions - so not able to follow up.