



Adelaide Brighton Cement Ltd

an **ADBRI** company

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QUARTERLY NOISE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 15/05/2022– Quarter 1 2023
EPA Licence 1126: Noise Management Plan (U-787)

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 15 May 2023

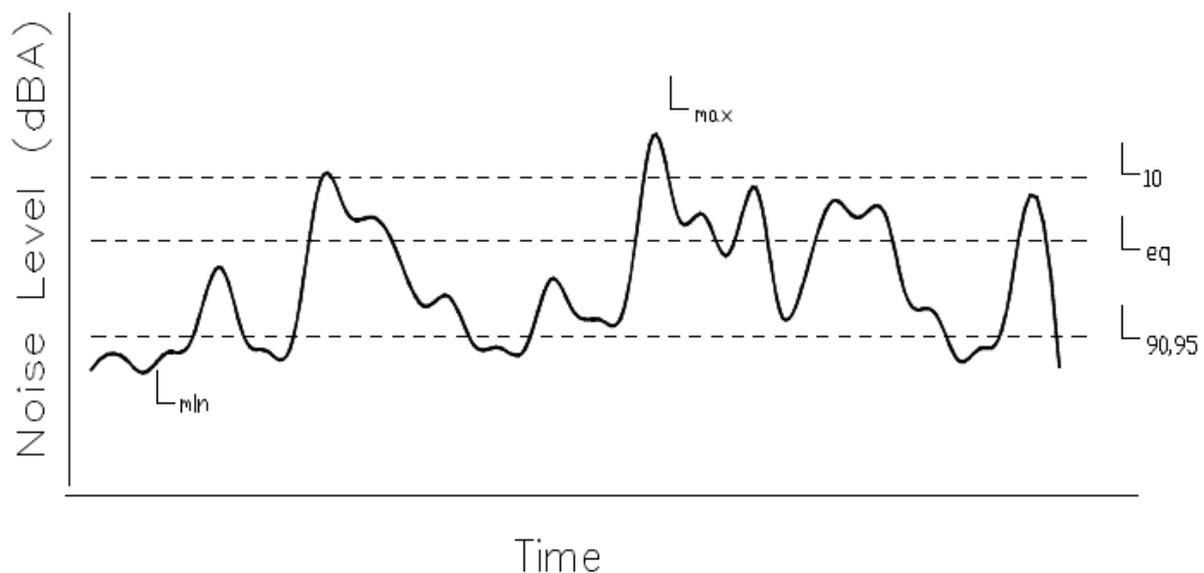
Version Number: 1



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 16 August 2018 by the SA EPA.</p> <p>The Plan is available on the ABC Birkenhead Community Website: https://adelaidebrightoncommunity.com.au/</p>																
Noise Complaints Summary	<p>There were 3 complaints for the reporting period.</p> <p>The tables below summarise the noise complaints for the reporting period.</p> <table border="1" data-bbox="319 869 1460 1680"> <thead> <tr> <th>Date and Time</th> <th>Location</th> <th>Description</th> <th>Action Taken</th> </tr> </thead> <tbody> <tr> <td>05/03/2023 6:40 am</td> <td>Darton Street Birkenhead</td> <td>Resident woken by idling truck noise at 6am</td> <td>Resident reported the noise had woken them at 6:00 am, believing the source was due to ABC starting up the plant. Resident has lived in area for 5 years and this is first time they had heard this noise. Plant runs 24/7 and was running at the time, no plant/equipment had started up. ABC probably not the source of this noise complaint.</td> </tr> <tr> <td>05/03/2023 10:28 am</td> <td>Gilbert Street Birkenhead</td> <td>High pitched noise coming from plant.</td> <td>Resident came out of home and heard noise, which stopped at the time of making the call. Plant investigation to see if any plant or equipment had started up or shut down - did not identify a source Wind blowing towards the plant from NNW</td> </tr> <tr> <td>07/03/2023 17:50 pm</td> <td>Anonymous</td> <td>Noise from flagpole</td> <td>Secured loose flag ropes which were flapping/knocking on the flagpole in strong SW breeze</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • No complaints related to annual plant shutdown activities (9/1/2023 to 8/2/2023) 	Date and Time	Location	Description	Action Taken	05/03/2023 6:40 am	Darton Street Birkenhead	Resident woken by idling truck noise at 6am	Resident reported the noise had woken them at 6:00 am, believing the source was due to ABC starting up the plant. Resident has lived in area for 5 years and this is first time they had heard this noise. Plant runs 24/7 and was running at the time, no plant/equipment had started up. ABC probably not the source of this noise complaint.	05/03/2023 10:28 am	Gilbert Street Birkenhead	High pitched noise coming from plant.	Resident came out of home and heard noise, which stopped at the time of making the call. Plant investigation to see if any plant or equipment had started up or shut down - did not identify a source Wind blowing towards the plant from NNW	07/03/2023 17:50 pm	Anonymous	Noise from flagpole	Secured loose flag ropes which were flapping/knocking on the flagpole in strong SW breeze
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Noise Monitoring Reports	<p>No noise monitoring reports</p>																

**Noise
Minimisation
Activities**

Annual Plant Shut Down

During the annual plant shutdown, the following controls were put in place to reduce the noise associated with kiln refractory demolition

- Remote controlled pneumatic breaker (Brokk) – allows for better control of the activity
- A 14m high noise barrier was installed
- Noisiest activities scheduled during the daytime period and stopped at 10 pm
- Daily team briefings



Photo of noise attenuation barrier and pneumatic breaker in the kiln