



Adelaide Brighton Cement Ltd

an **ADBRI** company

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QUARTERLY NOISE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 15/11/2020 – Quarter 3 2020
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 November 2020

Version Number: 1

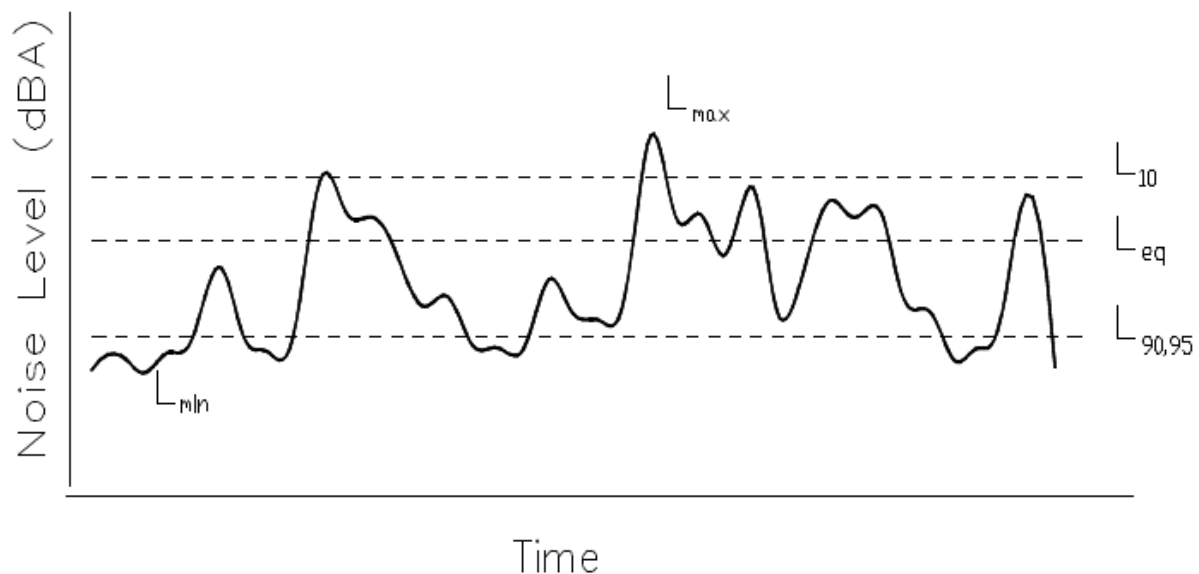


Report Submitted by: Sustainability/Environmental Engineer

I certify that to the best of my knowledge and ability all the information in this report is a true and accurate reflection of the regulatory monitoring performed.

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.
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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: http://www.birkenheadcommunity.com.au</p>
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Noise Complaints Summary	<table border="1"> <thead> <tr> <th>Date and Time</th> <th>Location</th> <th>Description</th> <th>Action Taken</th> </tr> </thead> <tbody> <tr> <td>1/07/2020 12:24</td> <td>Victoria Road, Birkenhead</td> <td>Noticed more vibration and noise coming from ABC, particularly late at night over the last couple of weeks. Noise is happening now 12.30 pm</td> <td>Only change in plant activity was related to removal of redundant assets along Victoria road between 7.30 am and 3.30 pm. This activity was occurring at the time of the complaint.</td> </tr> <tr> <td>1/07/2020 13:48</td> <td>Hilton street, Birkenhead</td> <td>Demolition noise (steel on steel) and grinders, last 2 days. Noise only an issue during the day, not at night</td> <td>Removal of redundant assets along Victoria road between 7.30 am and 3.30 pm. Notification placed on ABC website advising of the times and duration of the activity. Email advice sent to EPA and CLG members.</td> </tr> <tr> <td>2/07/2020 17:35</td> <td>Alfred street, Peterhead</td> <td>High pitch continuous noise all day</td> <td>Identified 4B conditioning tower sprays damaged flange packing - post maintenance. Packing replaced within an hour of complaint.</td> </tr> <tr> <td>14/07/2020 23:00</td> <td>Hilton street, Birkenhead</td> <td>Loud humming noise from factory during late evening. Could hear it above the TV in room with window shutters closed. Made contact via email the following day.</td> <td>A similar complaint was received by another resident. Industrial vacuum truck, cleaning weigh building close to Hilton St / Victoria Rd. Stopped activity.</td> </tr> <tr> <td>14/07/2020 23:50</td> <td>Anonymous</td> <td>Loud humming noise.</td> <td>Industrial vacuum truck, cleaning weigh building close to Hilton St/Victoria Rd. Stopped activity</td> </tr> </tbody> </table>	Date and Time	Location	Description	Action Taken	1/07/2020 12:24	Victoria Road, Birkenhead	Noticed more vibration and noise coming from ABC, particularly late at night over the last couple of weeks. Noise is happening now 12.30 pm	Only change in plant activity was related to removal of redundant assets along Victoria road between 7.30 am and 3.30 pm. This activity was occurring at the time of the complaint.	1/07/2020 13:48	Hilton street, Birkenhead	Demolition noise (steel on steel) and grinders, last 2 days. Noise only an issue during the day, not at night	Removal of redundant assets along Victoria road between 7.30 am and 3.30 pm. Notification placed on ABC website advising of the times and duration of the activity. Email advice sent to EPA and CLG members.	2/07/2020 17:35	Alfred street, Peterhead	High pitch continuous noise all day	Identified 4B conditioning tower sprays damaged flange packing - post maintenance. Packing replaced within an hour of complaint.	14/07/2020 23:00	Hilton street, Birkenhead	Loud humming noise from factory during late evening. Could hear it above the TV in room with window shutters closed. Made contact via email the following day.	A similar complaint was received by another resident. Industrial vacuum truck, cleaning weigh building close to Hilton St / Victoria Rd. Stopped activity.	14/07/2020 23:50	Anonymous	Loud humming noise.	Industrial vacuum truck, cleaning weigh building close to Hilton St/Victoria Rd. Stopped activity
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6/08/2020 20:50	Alfred street, Peterhead	loud humming vibration noise from South end of plant near car park	Inspected Plant - no source could be found
26/08/2020 20:19	Gilbert Street, Peterhead	Constant loud whirring noise	No source found onsite. Noise coming from the Eastern side of Port River near grain silos. Plant operators had complained earlier to shift supervisor about it
31/08/2020 18:40	Alfred street, Peterhead	Constant high pitched squealing/ whistling sound - has not heard it for a while	Noise from 4B conditioning tower spray nozzle. Spray nozzle isolated and replaced.
18/09/2020 15:15	Craige Street, Birkenhead	"whooshing" noise with thumps all day (7.30 am - 3.30 pm) Heard it all week Mon-Fri walking along Victoria Road near the big (Reclaimer) shed Southern end of plant	Verified the source was not from the Reclaimer shed. Reclaimer not operating. Source found to be Hydra jetting on the Eastern side of the Port River Wharf. Plant Operators had complained to shift supervisor about it

Noise Monitoring Reports

No noise monitoring undertaken in this quarter

Noise Attenuation Projects

No noise attenuation activities undertaken in this quarter