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QUARTERLY NOISE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 15/02/19 – Quarter 4, 2018
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 February 2019**

Version Number: **1**

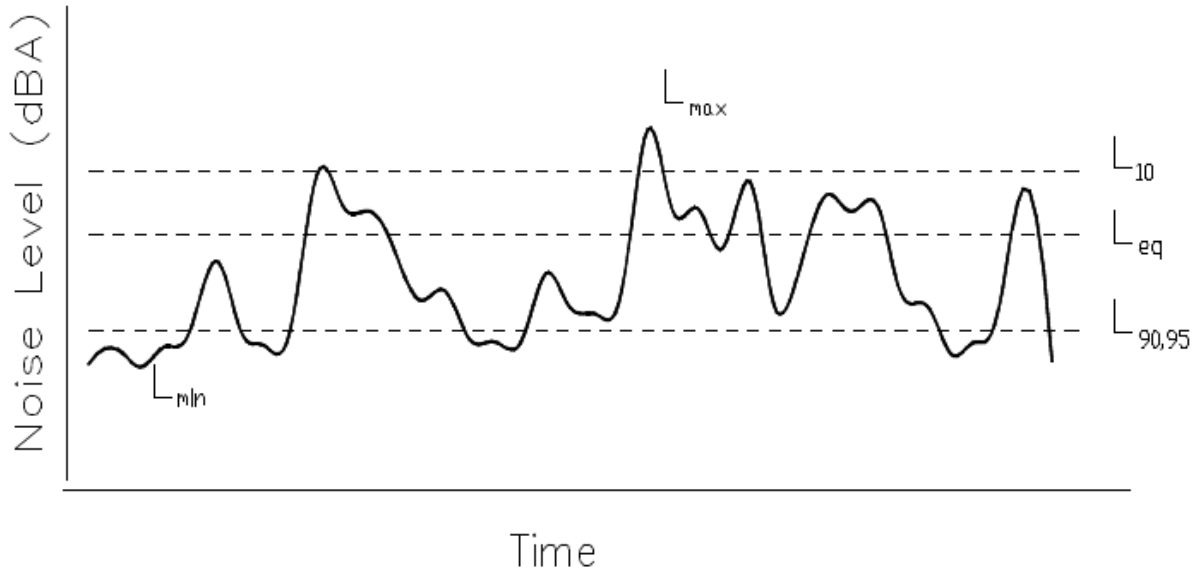
Report Submitted by: Environmental Engineer

Certified by: Compliance Manager

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.
L_1	The noise level which is equalled or exceeded for 1% of the measurement period. L_1 is an indicator of the impulse noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
L_{10}	The noise level which is equalled or exceeded for 10% of the measurement period. L_{10} is an indicator of the mean maximum noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
L_{90}	The noise level which is equalled or exceeded for 90% of the measurement period. L_{90} 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

The quarterly report will include where applicable:

- Details of noise complaints (excluding complainant name and identifying address details (for reasons of confidentiality), received during the quarter, including 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 other noise minimisation activities

Monitoring Plan

This monitoring report complies with the Noise Management Plan approved on 16 August 2018 by the SA EPA.

The Plan is available on the ABC Birkenhead Community Website: http://www.birkenheadcommunity.com.au

Noise Complaints Summary

Date & Time	Location	Description	Action taken
26/10/2018, 11:26 PM	Alfred street Peterhead	Resident rang regarding knocking noise coming from plant	Shift Supervisor attended resident's address to verify potential noise source and a subsequent plant investigation identified solid material circulating in Wood Chip pumping line. Solid material was subsequently removed from pumping line.
5/11/2018, 4:00 AM	Baker street Peterhead	Resident called to inform that there was a louder than normal roaring noise coming from the plant.	Called resident back to obtain more information and asked if they could still hear the noise - resident advised that the noise had reduced since time of complaint. Supervisor visited residential site/areas and could not identify any noise sources from plant. Plant was running under normal operating conditions.

Noise Attenuation Projects

No noise attenuation projects were completed for the quarter

Noise Monitoring reports

No reports for the Quarter

Noise Minimisation Activities

Vipac Acoustic Engineers & Scientists were engaged to conduct a site noise study over December 2018 to February 2019, to update the site noise emissions profile including:

- Site intensity measurements of all major noise sources
- Identification of potential noise abatement projects
- Update the source intensity sound model, including the incorporation of the completed noise projects from the ABC Environmental Improvement Program 1126 EIP Version 3 - 31 January to 30 June 2018