



Adelaide Brighton Cement Ltd

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QUARTERLY STACK PARTICULATE REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 31/10/21 – Quarter 3, 2021
EPA Licence 1126: Stack Particulate Management Plan (U-749)

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 29 October 2021

Version Number: 1



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

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

Term	Definition
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
mg/m^3	milligrams per cubic metre
m	metre
m^3	cubic metres
m^3/s	cubic metres per second
Nm^3	Gas volume in dry cubic metres at STP dry basis
Abbreviations	Definition
Air EPP	Environment Protection (Air Quality) Policy 2016
SA EPA	South Australian Environment Protection Authority
STP dry basis	Standard Temperature and Pressure (zero degrees Celsius and 101.3 kilo Pascals absolute)
TSP	Total Suspended Particulates
SPMP	Stack Particulate Management Plan

Monitoring Objective	<p>All stack particulate emissions events for the reporting quarter, where levels have exceeded the reporting thresholds:</p> <ul style="list-style-type: none"> • 100 mg/Nm³ (1 hour averaging period) on Kiln Stack 4A • 60 mg/Nm³ (1 hour averaging period) on Pre calciner Stack 4B <p>Particulate Emissions will be reported in a table format providing the following details:</p> <ul style="list-style-type: none"> • date, time and duration • the measured particulate concentration mg/Nm³ (STP-dry) • immediate actions taken to reduce particulate emissions • cause and corrective actions taken to prevent future reoccurrence
Monitoring Plan	<p>This monitoring report has been prepared in compliance with Stack Particulate Management Plan, approved 18 June 2018, by SA EPA.</p> <p>The Plan is available on the ABC Birkenhead Community Website: https://adelaidebrightoncommunity.com.au/</p>

One Hour Stack Particulate Reporting Events

4A Stack
 1 hr >
 100mg/Nm3
 Rolling 1hr
 average

Date	Time start	Time finish	Duration (min)	Magnitude mg/Nm3	Cause	Immediate Actions Taken	Actions Taken to Prevent a Reoccurrence
03/08/2021	14:45	15:17	32	122.2	Automatic safety trip on the kiln. 4A mill was also off at the same time. 4A Conditioning tower water sprays were not activated.	Kiln and mill remained off until emissions reduced.	Investigation in progress to determine why the water sprays were not activated.

4B Stack
 1 hr >
 60mg/Nm3
 Rolling 1hr
 average

No 1-hr reporting events for this reporting period