



Adelaide Brighton Cement Ltd

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QUARTERLY STACK PARTICULATE REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 30/04/21 – Quarter 1, 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: 30 April 2021

Version Number: 1



Report Submitted by: 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

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

<p>Monitoring Objective</p>	<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 Precalciner 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
<p>Monitoring Plan</p>	<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

No 1-hr reporting events

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

Date	Time start	Time finish	Duration (min)	Magnitude mg/Nm ³	Cause	Immediate Action Taken	Actions Taken to Prevent a Reoccurrence
18/02/2021	2.02	2.05	3	60.8	Kiln and Calciner - Emergency stop activated in response to a Kiln shell hot spot	Hot spot inspection indicated refractory failure in a small section of the Kiln. Kiln cool down and annual plant shutdown commenced.	Refractory replacement on annual plant shutdown.