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**ENVIROMENTAL IMROVEMENT PROGRAMME (EIP)
QUARTERLY REPORT FOR BIRKENHEAD WORKS
EPA Approved Document no: 1126 EIP Version 1**

**COMPLIANCE DATE: 14/02/20 – Quarter 4, 2019
EPA Licence 1126: Environmental Improvement Programme
(U-583)**

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 14 February 2020

Version Number: 1



Report Submitted by: Environmental Engineer

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

Purpose	The purpose of the Environmental Improvement Programme (EIP) is to reduce noise and fugitive particulate emissions from the site.
Background Information	<p>In order to reduce its environmental impact, Adelaide Brighton Cement Ltd, has developed an EIP that contains projects to reduce noise and fugitive particulate emissions. These projects were identified from the following inputs:</p> <ul style="list-style-type: none"> • Adelaide Brighton Cement Limited Report, August 2018, “Assessment of Options Report” • Katestone Environmental Report, August 2018 “Birkenhead Cement Plant – Options Assessment Report” • Katestone Environmental Report 2017 “Air Quality Assessment of the Birkenhead Cement Plant” • Vipac Engineers and Scientists Report, August 2018 “Environmental Noise Model Update” • Vipac Engineers and Scientists Report, February 2019 “Noise model update and Abatement Options” <p>Thirteen fugitive particulate and three noise improvement projects were identified and incorporated into an EPA approved EIP.</p> <p>EIP project implementation is tracked through the completion of 52 compliance actions over the life of the EIP.</p> <p>The EIP approved by the EPA on 28 February 2019 is available on the ABC Birkenhead Community Website: http://www.birkenheadcommunity.com.au/</p>
Reporting Objective	<p>Quarterly EIP progress report providing:</p> <ul style="list-style-type: none"> • Details of steps taken to progress compliance actions • Details of proposed next steps to be taken
Quarterly Report	<p>ABC sought a variation in EIP project 1, Relocate Bauxite stockpile and cover with Geofabric, completion date. This was due delays in obtaining the stockpile fabric/material. At the time of developing the EIP, ABC was not cognisant of the long lead times associated with the delivery of the material which is sourced from overseas manufacturers and the production timing coinciding with a seasonally related busy period.</p> <p>The revised completion date of 28 February 2020, and the application of chemical dust suppressant to the stockpile as an interim fugitive dust control measure, was approved by the SA EPA.</p> <p>The EIP progress report for the quarter is tabled below</p>

Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)

1 March 2019 – December 2022


EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
6	Fugitive Dust – Storage/processing buildings	CM6 CF6 Clinker Transfer Point Dust Collector	21	By 28/11/2019, ABC will obtain the capital expenditure for the installation of a CM6 CF6 Clinker transfer point dust collector.	<p>ABC has developed an engineering scope of work to reduce dust emissions at the clinker transfer onto Cement Mill 6 (CM6) Clinker Feed conveyor (CF6)</p> <p>Engineering analysis determined the existing dust collector is correctly sized, but dust capture and handling needs improvement.</p> <p>The scope of work includes;</p> <ul style="list-style-type: none"> • Redesigned ductwork to provide effective capture of dust at the clinker transfer point • Improved dust collector discharge arrangements <p>These improvements will reduce dust loadings within CM6 building and will lead to lower overall fugitive dust emissions from the building.</p> <p>ABC has obtained approval for the expenditure necessary to reduce dust emissions at the CM6 CF6 Clinker transfer point.</p>

Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)

1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
8	Fugitive Dust – Dust Collectors	CM1Dust Collector – Redirect outlet	28	Subject to development approval by 29/10/2019, ABC will obtain the capital expenditure for changing the CM1 dust collector outlet to a vertical discharge by 28/01/2020	<p>ABC has obtained the funding to change the CM1 dust collector outlet to a vertical discharge.</p> <p>ABC plans to complete the installation of the redirected CM1 dust collector outlet in February 2020, as the planned CM1 shutdown has been brought forward from April 2020.</p>

Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)
1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
9	Fugitive Dust – Sealing exposed unsealed surfaces	Seal area – north of reclaimer shed	32	Subject to capital approval by the 24/09/2019, ABC will seal 1200 m ² of unsealed surface area on the northern side of the limestone reclaimer by 26/11/2019.	<p>ABC has sealed 1200m² of unsealed surfaces on the northern side of the reclaimer shed with bitumen.</p> <p>The bituminised area is now being utilised to provide additional car parking spaces – see photograph below.</p>  <p>Independent air quality modelling and analysis indicates this project may reduce the maximum 24 h-hr average concentrations of PM₁₀ at the Community Park by 0.3 µg/m³.</p> <p>The EIP project was completed on the 23/10/2019 before the required compliance date of 26/11/2019.</p>

Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)
1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
14	Noise	CM1/CM7 Clinker Gantry Dust Collector Fans	47	By 17/10/2019, ABC will commit to a noise attenuation option and obtain approval for the necessary expenditure.	<p>ABC has obtained capital funding to install duct noise attenuators on the CM1/CM7 Clinker Gantry Dust Collection Fans.</p> <p>Subject to the annual plant shutdown commencing on 6/01/2020, ABC will implement the CM1/CM7 Clinker Gantry Dust Collection Fans by the 31/01/2020.</p>