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ENVIRONMENTAL IMPROVEMENT PROGRAMME (EIP) QUARTERLY REPORT FOR BIRKENHEAD WORKS EPA Approved Document no: 1126 EIP Version 1

COMPLIANCE DATE: 14/08/19 – Quarter 2, 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: 31 July 2019

Version Number: 1




Report Submitted by: Environmental Engineer

Certified by: Compliance Manager



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	Tabled below


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
1	Fugitive Dust - Stockpile emission reduction	Relocate Bauxite Stockpile and cover with Geofabric	1	By the 24/04/2019, ABC will select a suitable Geofabric, determine installation methodology and project costs to enable a business case to be developed for capital expenditure approval.	<p>ABC has researched several suitable Geofabrics, installation methodologies and obtained estimated project costs.</p> <p>In summary:</p> <ul style="list-style-type: none"> • A heavy duty shade cloth material to be used for the stockpile cover –(example photo below)  <ul style="list-style-type: none"> • Stockpile to be covered with six panels of heavy duty shade cloth (15 m x 65 m each) to provide flexibility and safety in covering and uncovering the stockpile • Covers will be applied using a combination of lifting equipment and manual labour • Covers will be anchored using water filled 200 litre drums appropriately spaced <p>A business case and a capital expenditure proposal will be submitted to obtain capital funding by the 23/08/2019.</p>

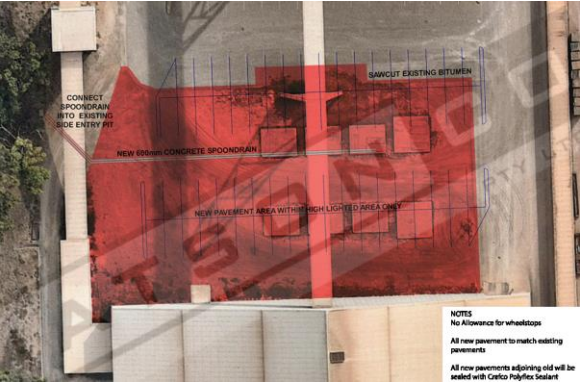

Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)
1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
16	Noise	Kiln Feed Elevator Gear box	50	By the 26/4/2019, ABC will have replaced the noisy gearbox on the kiln feed elevator and reinstate its Western cladding.	<p>Kiln feed elevator gear box has been replaced and Western cladding has been reinstated.</p> <ul style="list-style-type: none"> • Photo showing gearbox installed  <ul style="list-style-type: none"> • Vipac (Acoustic Consultants) measured noise levels on 16/4/2019 from the replaced gearbox at 91dBA, at 1m distance from the gearbox. • A reduction of 9dBA has been achieved (previously 100dBA in November 2018) • Photo showing replacement of western cladding (dark blue section) 

**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
3	Fugitive Dust - Stockpile emission reduction	Geofabric – Limestone stockpile	9	By the 30/05/2019, ABC will select a suitable Geofabric, determine installation methodology and project costs to enable a business case to be developed for capital expenditure approval.	<p>ABC has researched several suitable Geofabrics, installation methodologies and obtained estimated project costs.</p> <p>In summary:</p> <ul style="list-style-type: none"> • A heavy duty shade cloth material to be used for the stockpile cover –(example photo below)  <ul style="list-style-type: none"> • In active areas of the stockpile to be covered with panels of heavy duty shade cloth to provide flexibility and safety in covering and uncovering the stockpile • Covers will be applied using a combination of lifting equipment and manual labour • Covers will be anchored using water filled 200 litre drums appropriately spaced <p>A business case and a capital expenditure proposal will be submitted to obtain capital funding by the 27/09/2019.</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
9	Fugitive Dust – Sealing exposed unsealed surfaces	Seal area – north of reclaimer shed	30	By the 25/06/2019, ABC will complete the engineering design to enable capital approval for sealing 1200m ² of unsealed surface area on the northern side of the reclaimer shed.	<p>ABC has developed an engineering scope of work and obtained estimated project costs. In summary:</p> <ul style="list-style-type: none"> • 1375 m² of unsealed surface is to be bituminised • Sealed surface to blend in with existing paved areas • Additional car parking spaces to be provided • Surface drainage into existing arrangements • Draft plan below  <p>NOTES: No Allowance for wheelstops All new pavement to match existing pavements All new pavements adjoining old will be sealed with Cretico Polyflex sealant</p> <ul style="list-style-type: none"> • Site Location below  <p>A business case and a capital expenditure proposal will be submitted to obtain capital funding by the 24/09/2019.</p>