

Permit Number: **EPR/BL1096IB**Operator: **Castle Cement Limited**Installation: **Padeswood Cement Works**Form Number: **Air 1**Date: **10/01/17**

**Six-monthly Reporting of Emissions to Air from Emission Point A8 for the period from 01/07/2016  
to 31/12/2016**

Substance / Parameter	Emission Limit Level	Result <sup>(1)</sup>		Test Method <sup>(2)</sup>	Sample Date & Times <sup>(3)</sup>	Accreditation/ Certification <sup>(4)</sup>	Uncertainty <sup>(5)</sup>
		First 6 Months	Second 6 Months				
Hydrogen Fluoride	1mg/Nm <sup>3</sup> over minimum 1 hour period		<0.069 mg/Nm <sup>3</sup>	ISO 15713	17/10/2016 15:15 – 17:15	MCERTS	46%
Cadmium & thallium and their compounds (total)	0.05mg/Nm <sup>3</sup> over minimum 30 min, max 8 hr period		0.0012 mg/Nm <sup>3</sup>	EN 14385	19/10/2016 15:20 – 19:24	MCERTS	16%
Mercury and its compounds	0.05mg/Nm <sup>3</sup> over minimum 30 min, max 8 hr period		0.022 mg/Nm <sup>3</sup>	EN 13211	19/10/2016 15:20 – 19:24	MCERTS	15%
Sb, As, Pb, Cr, Co, Cu, Mn, Ni, and V and their compounds (total)	0.5mg/Nm <sup>3</sup> over minimum 30 min, max 8 hr period		0.047 mg/Nm <sup>3</sup>	EN 14385	19/10/2016 15:20 – 19:24	MCERTS	14%
Dioxins / Furans (I-TEQ) <sup>6</sup>	0.1ng/Nm <sup>3</sup> over minimum 6hr, max 8 hr period		0.016 ng/Nm <sup>3</sup>	EN 1948	18/10/2016 08:45 – 17:55	MCERTS	12%
Dioxins / Furans (WHO – TEQ Humans/ Mammals) <sup>6</sup>	No Limit		0.015 ng/Nm <sup>3</sup>	EN 1948		MCERTS	12%
Dioxins / Furans (WHO – TEQ Fish) <sup>6</sup>	No Limit		0.017 ng/Nm <sup>3</sup>	EN 1948		MCERTS	12%
Dioxins / Furans (WHO – TEQ Birds) <sup>6</sup>	No Limit		0.035 ng/Nm <sup>3</sup>	EN 1948		MCERTS	12%

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reported period, expressed in the same terms as the emission limit value. Where the emission limit is expressed as a range, the result given as the minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the agency is used then the appropriate identifier is given. In other cases the principal technique is stated e.g. gas chromatography
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
5. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
6. The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.

Signed .....Robert Keough.....  
(Authorised to sign as representative of Castle Cement Limited)

Date.....11/01/2017.....