

Permit Number: EPR/BL3986ID

Operator: Lafarge Tarmac Cement & Lime Ltd

Installation: Aberthaw Works

Form number: Air 1 / 31 August 2010

Reporting of Emissions to Air from Emission Point A1 for the six-month period from Jan to Jun 2014

Substance/ Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5] ±mg/m3
Hydrogen fluoride	1 mg/m3 over minimum 1 hour period	0.22	mg/m3	BS ISO 15713	30/05/2014 15:40 16:40	UKAS & MCERTS	0.03
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.002	mg/m3	BS EN 14385:2004	13/06/2014 13:35 14:39		0.0003
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.001	mg/m3	BS EN 13211:2001	13/06/2014 13:35 14:39		0.0001
Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5mg/m3 over minimum 30 minute, maximum 8 hour period	0.029	mg/m3	BS EN 14385:2004	13/06/2014 13:35 14:39		0.004
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0013	ng/m3	BS EN 1948-1:2006	29/05/2014 08:41 14:48		0.0003
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0013	ng/m3				0.0003
Dioxins/furans (WHO-TEQ Fish)[6]		0.0011	ng/m3				0.0003
Dioxins/furans (WHO-TEQ Birds)[6]		0.0068	ng/m3				0.014
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.000191	ng/m3	BS EN 1948-1:2006			0.00039
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000016	ng/m3				0.000003
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.002305	ng/m3				0.000469

Substance/ Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
							±mg/m3
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	87.90	ug/m3	BS ISO 11338-1	30/05/2014 15:40 17:44	UKAS & MCERTS	10.3
Anthanthrene		0.31	ug/m3				0.0400
Benzo(a)anthracene		0.004	ug/m3				0.0004
Benzo(b)fluoranthene		0.003	ug/m3				0.0003
Benzo(k)fluoranthene		0.003	ug/m3				0.0003
Benzo(b)naph(2,1-d)thiophene		0.003	ug/m3				0.0004
Benzo(c)phenanthrene		0.003	ug/m3				0.0003
Benzo(ghi)perylene		0.003	ug/m3				0.0003
Benzo(a)pyrene		0.003	ug/m3				0.0003
Cholanthrene		0.003	ug/m3				0.0003
Chrysene		0.012	ug/m3				0.0010
Cyclopenta(c,d)pyrene		0.003	ug/m3				0.0004
Dibenzo(ah)anthracene		0.003	ug/m3				0.0003
Dibenzo(ai)pyrene		0.003	ug/m3				0.0003
Fluoranthrene		0.420	ug/m3				0.0490
Indeo(123-cd)pyrene		0.003	ug/m3				0.0003
Naphthalene		67.1	ug/m3				7.9

[1] The result given is the maximum value (or minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is 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: Silvia Canut
(authorised to sign as representative of Lafarge Tarmac Cememt and Lime Ltd)

Date: 21/07/2014