

Permit Number: EPR/BL3986ID

Operator: 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 July to Dec 2020

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	0.046	mg/m3	BS ISO 15713	09/09/2020	10.50	11.50	UKAS & MCERTS	0.004			
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.00102	mg/m3	BS EN 14385	25/11/2020	10.50	11.57		0.0002			
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.00092	mg/m3	MID 14385	25/11/2020	10.50	11.57		0.00022			
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	0.022	mg/m3	BS EN 14385	25/11/2020	10.50	11.57		0.00448			
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.00088	ng/m3	BS EN 1948	09/09/2020	8.52	15.04		0.0002			
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.00081	ng/m3						0.0002			
Dioxins/furans (WHO-TEQ Fish)[6]		0.00077	ng/m3						0.0002			
Dioxins/furans (WHO-TEQ Birds)[6]		0.0034	ng/m3						0.0007			
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.000050	ng/m3	BS EN 1948					0.000011			
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000005	ng/m3						0.000001			
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.000979	ng/m3						0.000208			
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	350.67	ug/m3	BS ISO 11338				08/09/2020	10.05	11.41	UKAS & MCERTS	74.39
Anthanthrene		0.003	ug/m3									0.0010
Benzo(a)anthracene		0.01	ug/m3									0.002
Benzo(b)fluoranthene		0.08	ug/m3									0.016
Benzo(k)fluoranthene		0.03	ug/m3		0.006							
Benzo(b)naph(2,1-d)thiophene		0.05	ug/m3		0.0100							
Benzo(c)phenanthrene		0.043	ug/m3		0.009							
Benzo(ghi)perylene		0.05	ug/m3		0.010							
Benzo(a)pyrene		0.04	ug/m3		0.009							
Cholanthrene		0.003	ug/m3		0.0010							
Chrysene		0.138	ug/m3		0.0290							
Cyclopenta(c,d)pyrene		0.043	ug/m3		0.0090							
Dibenzo(ah)anthracene		0.011	ug/m3		0.0020							
Dibenzo(ai)pyrene		0.006	ug/m3		0.0010							
Fluoranthene		0.834	ug/m3		0.1770							
Indeo(123-cd)pyrene		0.035	ug/m3		0.007							
Naphthalene		349.30	ug/m3		74.100							

[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: G Taubman
(authorised to sign as representative of Tarmac Cement and Lime Ltd)

Date: 26/01/2021