

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 January to June 2023

Substance/ Parameter	Emission Limit Value	Result <sup>[1]</sup>		Test Method <sup>[2]</sup>	Sampling date and times			Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
									±mg/m3
Hydrogen fluoride	1 mg/m3 over minimum 1 hour period	<0.07	mg/m3	CEN/TS 17340	11.05.2023	08:30:00	09:30:00	UKAS & MCERTS	0.01
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.0019	mg/m3	BS EN 14385	15.05.2023	10:35:00	11:37:00		0.0003
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.002	mg/m3	BS EN 13211	15.05.2023	13:03:00	14:05:00		0.001
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	0.012	mg/m3	BS EN 14385	15.05.2023	10:35:00	11:37:00		0.002
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0028	ng/m3	BS EN 1948	11.05.2023	08:00:00	14:04:00		0.0006
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0031	ng/m3						0.0007
Dioxins/furans (WHO-TEQ Fish)[6]		0.0033	ng/m3						0.0008
Dioxins/furans (WHO-TEQ Birds)[6]		0.0061	ng/m3						0.0014
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.000241	ng/m3	BS EN 1948					0.000056
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000016	ng/m3						0.000004
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.001936	ng/m3					0.000453	
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	94.50	ug/m3	BS ISO 11338	12.05.2023	08:26:00	10:30:00	UKAS & MCERTS	22
Anthanthrene		<0.007	ug/m3						0.0002
Benzo(a)anthracene		<0.007	ug/m3						0.0002
Benzo(b)fluoranthene		<0.007	ug/m3						0.0002
Benzo(k)fluoranthene		<0.007	ug/m3						0.0002
Benzo(b)naph(2,1-d)thiophene		<0.007	ug/m3						0.0002
Benzo(c)phenanthrene		<0.007	ug/m3						0.0002
Benzo(ghi)perylene		<0.007	ug/m3						0.0002
Benzo(a)pyrene		<0.007	ug/m3						0.0002
Cholanthrene		<0.007	ug/m3						0.0002
Chrysene		<0.007	ug/m3						0.0002
Cyclopenta(c,d)pyrene		<0.007	ug/m3						0.0002
Dibenzo(ah)anthracene		<0.007	ug/m3						0.0002
Dibenzo(ai)pyrene		<0.007	ug/m3						0.0002
Fluoranthene		0.2164	ug/m3						0.0307
Indeo(123-cd)pyrene		<0.007	ug/m3						0.0002
Naphthalene	94.2	ug/m3	3.11						

[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: Daniel Bound  
(authorised to sign as representative of Tarmac Cement and Lime Ltd)

Date: 21.07.2023