

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 December 2021

Substance/ Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sampling date and times			Accreditation/ Certification ^[4]	Uncertainty ^[5]
									±mg/m3
Hydrogen fluoride	1 mg/m3 over minimum 1 hour period	<0.046	mg/m3	BS ISO 15713	1.12.2021	11:50:00	12:50:00	UKAS & MCERTS	0.004
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.0023	mg/m3	BS EN 14385	30.11.2021	11:23:00	12:26:00		0.0004
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.0011	mg/m3	MID 14385	30.11.2021	11:23:00	12:26:00		0.0003
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	0.0873	mg/m3	BS EN 14385	30.11.2021	11:23:00	12:26:00		0.0178
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0074	ng/m3	BS EN 1948	01.12.2021	08:30:00	14:49:00		0.0015
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0076	ng/m3						0.0016
Dioxins/furans (WHO-TEQ Fish)[6]		0.0061	ng/m3						0.0013
Dioxins/furans (WHO-TEQ Birds)[6]		0.0089	ng/m3						0.0019
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.000179	ng/m3	BS EN 1948					0.000038
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000008	ng/m3						0.000002
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.000291	ng/m3					0.000061	
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	144.80	ug/m3	BS ISO 11338	02.12.2021	08:27:00	10:30:00	UKAS & MCERTS	30.4
Anthanthrene		<0.003	ug/m3						0.001
Benzo(a)anthracene		0.007	ug/m3						0.001
Benzo(b)fluoranthene		0.007	ug/m3						0.002
Benzo(k)fluoranthene		<0.003	ug/m3						0.001
Benzo(b)naph(2,1-d)thiophene		<0.003	ug/m3						0.001
Benzo(c)phenanthrene		<0.003	ug/m3						0.001
Benzo(ghi)perylene		0.02	ug/m3						0.004
Benzo(a)pyrene		<0.003	ug/m3						0.001
Cholanthrene		<0.003	ug/m3						0.001
Chrysene		0.01	ug/m3						0.002
Cyclopenta(c,d)pyrene		<0.003	ug/m3						0.001
Dibenzo(ah)anthracene		<0.003	ug/m3						0.001
Dibenzo(ai)pyrene		<0.003	ug/m3						0.001
Fluoranthrene		0.0220	ug/m3						0.005
Indeo(123-cd)pyrene		0.006	ug/m3						0.001
Naphthalene		144.7	ug/m3						30.4

[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: 20.1.2022