Permit Number: AB3790ZB **Operator:** Biomass UK No.2 Limited

Facility: Barry Energy Production Facility **Form Number:** Air16 03/12/23

Reporting of emissions to air for the period from 01/04/2023 **to** 31/06/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Result Date and Time [3]	Uncertainty [4]
A1	Hydrogen fluoride	1.5 mg/Nm^3	Average of three consecutive measurements of at least 30 minutes each		CEN TS 17340		
	Cadmium & thallium and their compounds (total)	0.03 mg/Nm^3	Average of three consecutive measurements of at least 30 minutes each		EN 14385		
	Mercury and its compounds	0.03 mg/Nm^3 [5]	Average of three consecutive measurements of at least 30 minutes each [5]		EN 13211		
	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.45 mg/Nm^3	Average of three consecutive measurements of at least 30 minutes each		EN 14385		
	Dioxins / Furans (I-TEQ)	0.01 ng/Nm^3	over minimum 6 hour period, maximum 8 hour period *(Quaterly/Bi-annual sampling)*		Relevant parts of EN 1948		
	Dioxins / Furans (I-TEQ)	0.01 ng/Nm^3 [5]	Value over sampling period of 2 to 4 weeks for long term sampling [5]	*[repeat row as required for number of results in reporting period if applicable]*	CEN TS 1948-5 [5]		
	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		
	Dioxin-like PCBs (WHO-TEQ Fish)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		
	Dioxin-like PCBs (WHO-TEQ Birds)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		
	Dioxins / furans (WHO-TEQ Humans / Mammals)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		
	Dioxins / furans (WHO-TEQ Fish)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Result Date and Time [3]	Uncertainty [4]
	Dioxins / furans (WHO-TEQ Birds)	No limit set	over minimum 6 hour period, maximum 8 hour period		Relevant parts of EN 1948		
	Poly-cyclic aromatic hydrocarbons (PAHs)		over minimum 6 hour period, maximum 8 hour period		BS ISO 11338 Parts 1 and 2		
	Total	0.001 mg/Nm^3					
	Anthanthrene	No individual limits set					
	Benzo{a}anthracene						
	Benzo[b]fluoranthene						
	Benzo[k]fluoranthene						
	Benzo[b]naph(2,1-d}thiophene						
	Benzo[c]phenanthrene						
	Benzo[ghi]perylene						
	Benzo[a]pyrene						
	Cholanthrene						
	Chrysene						
	Cyclopenta(c,d)pyrene						
	Dibenzo[ah]anthracene						
	Dibenzo[a,i]pyrene						
	Fluoranthene						
	Indo[1,2,3-cd]pyrene						
	Naphthalene						

[1] The result given is the maximum value 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. For dioxins and dioxin-like PCBs, the result are 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

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Unless otherise agreed with in writing with Natural Resources Wales

Note: The facility was not operational during Q1 2023, as such no periodic air monritoring was undertaken and nil retuns are reported.

Signed [redacted] [redacted] (Consultant)…… Date…12/07/2023.

(Authorised to sign as representative of Biomass UK No.2 Limited)