

Permit Number: **EPR/ZP3939GL**

Operator: **Western Bio-Energy Limited**

Facility: **Western Wood Energy Plant - Margam**

Form Number: **Air 2** (Periodic Monitoring)

Reporting of emissions to air for the period from:

01/10/2022 to 31/01/2023


Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Sample date and times	Test Method [3]	Uncertainty
A1	Particulate Matter	15 mg/m3	Average over monitoring period - Periodic sample over a minimum 1 hour period	1.14	05/01/2023 11:50 - 12:52	EN 13284-1 & MID for EN 13284-1	53%
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	300 mg/m3	Average over monitoring period - Periodic sample over a minimum 1 hour period	178.73	05/01/2023 14:00 - 15:00	EN 14792	3%
A1	Carbon monoxide (CO)	250 mg/m3	Average over monitoring period - Periodic sample over a minimum 1 hour period	119.10	05/01/2023 14:00 - 15:00	EN 15058	4%
A1	Ammonia (NH ₃)	10 mg/m3	Periodic sample over a minimum 1 hour period	8.06	05/01/2023 11:50 - 12:52	EN ISO 21877	14%
A1	Nitrous oxide (N ₂ O)	No Limit Set	Periodic sample over a minimum 1 hour period	0.53	09/01/2023 14:00 - 15:00	PD CEN/TS 17337:2019	9%
A1	Sulphur dioxide (SO ₂)	No Limit Set	Periodic sample over a minimum 4 hour period	20.06	06/01/2023 15:00 - 16:02	PD CEN/TS 17021:2017	14%
A1	Hydrogen Chloride (HCl)	No Limit Set	Periodic sample over a minimum 1 hour period	24.02	05/01/2023 11:50 - 12:52	EN 1911	14%
A1	Cadmium & thallium and their compounds (total)	No Limit Set	Periodic sample over a minimum 30 minute, maximum 8 hour period	0.0013	05/01/2023 15:00 - 16:02	EN 14385 & MID for EN 14385	5%
A1	Mercury and its compounds	No Limit Set	Periodic sample over a minimum 30 minute, maximum 8 hour period	0.00044	06/01/2023 13:10 - 14:12	BS EN 13211 : 2001	10%
A1	Metals (Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total))	No Limit Set	Periodic sample over a minimum 30 minute, maximum 8 hour period	0.099	05/01/2023 15:00 - 16:02	EN 14385 & MID for EN 14385	5%
A1	Dioxins / furans (I-TEQ) - ng/m ³ *	No Limit Set	Periodic sample over a minimum 6 hour, maximum 8 hour period	0.0025	09/01/2023 10:35 - 16:40	EN 1948: Parts 1, 2 & 3 & MID for EN 1948	12%

1) The result given is the maximum value (or the 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.

2) For non-continuous measurements the date and time of the sample that produced the result is given.

3) The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

4) Periodic monitoring shall be performed when the boiler is operating at a minimum MCR of 60% and when a typical combination of virgin and non-virgin biomass fuel is being combusted in the unit.

Signed 
(Authorised on behalf of Western Bio-Energy Limited)

Date: 20/02/2023