

Permit Number: EPR/AB3233DW

Operator: GP Biotec Ltd

Facility: Great Porthamel Farm AD Plant

Form Number: Air 1 / 28/01/21

Reporting of emissions to air for the year 2020

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
A1 CHP Exhaust	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500mg/m ³	Hourly mean		331.50	BS EN 14792	07/01/2020 11.05-12.05	
	Carbon Monoxide	1400mg/m ³	Hourly mean		715.70	BS EN 15058	07/01/2020 12.00-13.00	
	Sulphur Dioxide	350mg/m ³	Hourly mean		1.40	BS EN 14791	07/01/2020 12.00- 13.00	
	Total VOC's (including methane)	1000mg/m ³	Hourly mean		893.40	BS EN 12619	07/01/2020 12.00-13.00	
A2 CHP Exhaust	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500mg/m ³	Hourly mean		491.40	BS EN 14792	07/01/2020 13.58- 14.48	
	Carbon Monoxide	1400mg/m ³	Hourly mean		632.80	BS EN 15058	07/01/2020 13.58- 14.48	
	Sulphur Dioxide	350mg/m ³	Hourly mean		5.44	BS EN 14791	07/01/2020 13.58- 14.48	
	Total VOC's (including methane)	1000mg/m ³	Hourly mean		583.20	BS EN 12619	07/01/2020 13.58- 14.48	
A3 Emergency Flare Stack ^{Note5}	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150mg/m ³	Hourly mean		N/A	BS EN 14792	N/A	N/A
	Total Volatile Organic Compounds (VOCs)	10mg/m ³	Hourly mean		N/A	BS EN 12619	N/A	N/A
	Carbon Monoxide	50mg/m ³	Hourly mean		N/A	BS EN 15058	N/A	N/A

[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. 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 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. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] Monitoring of flare emissions is only necessary when the flare operated in excess of 10% of the time



Signed
(Authorised to sign as representative of Operator)

Date...28.01.2021.....

Permit Number: EPR/AB3233DW

Operator: GP Biotec Ltd

Facility: Great Porthamel Farm AD Plant

Form Number: Water 1 / 15/01/21

Reporting of emissions to water (other than to sewer) and land for the year 2020

Parameter	Units	Result
Batches of water tested for discharge criteria (ammonia, pH, and/or visual check)	number	0
Batches of water passed all tests and discharged to surface water	number	0
Batches of water failed one or more test not released to surface water	number	0

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Date.....28.01.2021.

Permit Number: EPR/AB3233DW

Operator:

GP Biotec Ltd

Facility: Great Porthamel Farm AD Plant

Form Number:

Performance1 15/01/21

Reporting of other performance indicators for the year 2020

Parameter	Units	Result
Waste treated (total)	tonnes	59,231.16
Animal waste treated	tonnes	49,745.57
Biogas produced by AD facility	M ³	3,588,102.7
Power output – Electricity generated	MWh	8,133.3
Energy efficiency	MWh/m ³ biogas	76%
Electrical energy exported to the grid	MWh	7,332.1
Electrical energy drawn from the grid	MWh	2.2
Water usage (mains water and any other sources, specify separately)	m ³	64.20
Operational time of emergency flare	% of operational time	2.6%
Amount of biogas combusted in the CHP unit per day	m ³ /day	9803.60

Operator's comments:

As outlined in Annual Report 2020.

Water collected in W1 was sucked out and re-used in the digestion process.



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(Authorised to sign as representative of Operator)

Date.....28.01.2021

