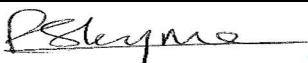


Permit Number: EPR/BV4177IS Operator: Volac International Ltd
 Facility: Volac Felinfach Form Number: Air1 / 25/01/2022

Reporting of emissions to air for the period from 01/01/2021 to 31/12/2021

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Monitoring frequency	Result ¹	Test Method ²	Sample Date and Times ³	Uncertainty ⁴
A15	Sulphur Dioxide (SO ₂)	30 mg/m ³	Periodic	Annual	0.26	BS EN 14791	14/09/2021	052 (MU)+/-
A15	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	Periodic	Annual	101	BS EN 14792	14/09/2021	129 (MU)+/-
A15	Total Particulate Matter (PM)	10 mg/m ³	Periodic	Annual	8.3	BS EN 13284-1	14/09/2021	6.8 (MU)+/-
A15	Carbon Monoxide (CO)	150 mg/m ³	Periodic	Annual	28.7	BS EN 15058	14/09/2021	757 (MU)+/-
A15	Carbon Monoxide (CO)	150 mg/m ³	Hourly average	Continuous Measurement	28.7	BS EN 14181 ⁵	14/09/2021	11%

Signed 

Date....25/01/2022

(Authorised to sign as representative of Operator)

Operator's comment:

The rationale for using 11% O₂ for the 2020 annual monitoring exercise at emission point A15 is advise from DEFRA volume components of the concentration and the specific flue gas volume need to be the same – a dry flue gas at 0°C, 101.3 kPa and at the same defined oxygen concentration. Typically, the reference oxygen content for wood combustion is 6, 10 or 11%”

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 CEMs which meet the MCERTS requirements should also follow the principles of EN 14181 (i.e. QAL2/AST and QAL3) but a reduced number of parallel measurements may be acceptable (subject to NRW approval).

Permit Number: EPR/BV4177IS Operator: Volac International Ltd
Facility: Volac Felinfach Form Number: Water1 / 25/01/2022

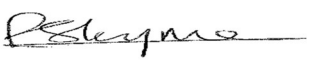
Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2021 to 31/12/2021

Emission Point	Substance / Parameter ¹	Emission Limit Value	Test Method	Month	Result ²	Sample Date and Times
W1	Visible solids, oil or grease	-	Visual check	January	Free of any of the stated substances.	08/01/2021 11:05
				February	Free of any of the stated substances	05/02/2021 09:20
				March	Free of any of the stated substances	05/03/2021 10:00
				April	Free of any of the stated substances	09/04/2021 09:45
				May	Free of any of the stated substances	07/05/2021 09:30
				June	Free of any of the stated substances	04/06/2021 10:20
				July	Free of any of the stated substances	02/07/2021 09:50
				August	Free of any of the stated substances.	06/08/2021 09:20
				September	Free of any of the stated substances	03/09/2021 10:15
				October	Free of any of the stated substances	01/10/2021 11:05
				November	Free of any of the stated substances	05/11/2021 09:25
				December	Free of any of the stated substances	03/12/2021 10:15

¹ Table S3.2 of the permit states that the discharge at W1 and W2 is to be free of any visible solids, oil or grease.

² For each monitoring period, the operator should confirm the presence (or otherwise) of any of the stated substances.

W2	Visible solids, oil or grease	-	Visual check	January	Free of any of the stated substances	08/01/2021 11:05
				February	Free of any of the stated substances	05/02/2021 09:20
				March	Free of any of the stated substances	05/03/2021 10:00
				April	Free of any of the stated substances	09/04/2021 09:45
				May	Free of any of the stated substances	07/05/2021 09:30
				June	Free of any of the stated substances	04/06/2021 10:20
				July	Free of any of the stated substances	02/07/2021 09:50
				August	Free of any of the stated substances	06/08/2021 09:20
				September	Free of any of the stated substances	03/09/2021 10:15
				October	Free of any of the stated substances	01/10/2021 11:05
				November	Free of any of the stated substances	05/11/2021 09:25
				December	Free of any of the stated substances	03/12/2021 10:15

Signed 
 (Authorised to sign as representative of Operator)

Date.....25/01/2022.....

Permit Number: EPR/BV4177IS Operator: Volac International Ltd

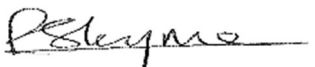
Facility: Volac Felinfach Form Number: Performance1 / 25/01/2022

Reporting of other performance indicators for the period 01/01/2021 to 31/12/2021

Parameter	Quantity	Units
Total feed production	35,500	tonnes
Total food production	25,670	tonnes

Operator's comments:

Genesis Dryer (Feeds) - 35,500T
Aeron Dryer (Food) - 8,525T
Lactose Dryer (Food) - 17,145T


Signed
(Authorised to sign as representative of Operator)

Date...26 January 2022.....

Permit Number: EPR/BV4177IS Operator: Volac International Ltd

Facility:

Volac Felinfach

Form Number:

S1 / 25/01/2022

Reporting of Emissions to Sewer for the period from 01.01.21 to 31.12.21

Emissions to Sewer							
Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	Biological oxygen demand	10,000 mg/l ^[6]	4.290	WAS001	June 2021	ALS Environmental	
S1	Chemical oxygen demand	22,162 mg/l ^[6]	6530	WAS040	June 2021	UKAS	
S1	Copper	1.0 mg/l ^[6]	0.061	WAS049	June 2021	1314	
S1	Lead	1.0 mg/l ^[6]	0.009	WAS049	Jan 2021	0897	
S1	Nitrogen, Total Oxidised as N	50 mg/l ^[6]	22.6	WAS036	Jan 2021	1229	
S1	Phosphate as P	150 mg/l ^[6]	96	WAS036	Jul 2021	1510	
S1	Suspended solids	3,324 mg/l ^[6]	684	WAS006	Jan 2021	4409	
S1	Flow	No limit applies to flow	99.66m3	meter	07/07/2021	MCERTS	+/- 0.2%

[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.

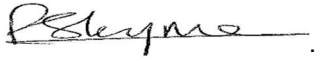
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring 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. The following uncertainties are quoted on a different basis (basis as stated) – {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

[6] The emission limit values for biological oxygen demand, cadmium and its compounds, chemical oxygen demand, copper, lead, mercury and its compounds, nitrogen, phosphate and suspended solids are expressed as a maximum individual value.

Signed  Date.....26 January 2022

(Authorised to sign as representative of the Operator)

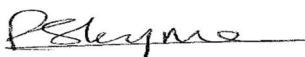
Permit Number: EPR/BV4177IS Operator: Volac International Ltd
 Facility: Volac Felinfach Form Number: R1 / 25/01/2022

Reporting of Waste Disposal and Recovery for the year 01.01.21 to 31.12.21

Waste Disposal & Recovery			
Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Named haz. Waste		1.763	0
Other hazardous wastes			
Total hazardous waste		1.763	0
2) Non-Hazardous Wastes	Land Fill	43.76	96.09
Named non-haz. Waste	Land Injected	0	0
Other non-hazardous wastes		0	0
Total non-hazardous waste		43.74	96.09
TOTAL WASTE		45.52	96.09

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2019	Recovery	105.11	0.00163
2019	Land Fill	52.38	0.00081
2019	Land Injected	0	
2020	Recovery	92.759	0.00143
2020	Land Fill	48.802	0.00075
2020	Land Injected	0	0
2021	Recovery	96.09	0.00218
2021	Land Fill	43.761	0.00099
2021	Land Injected	0	0

Operator's comments...
 Year on year reduction in landfill continues

Signed 
 (Authorised to sign as representative of the Operator)

Date.....26 January 2022

Permit Number: EPR/BV4177IS

Operator: Volac International Ltd

Facility: Volac Felinfach

Form Number: WU1 / 25/01/2022

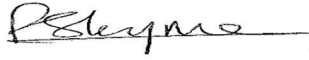
Reporting of Water Usage for the year 01.01.21 to 31.12.21

Water Usage		
Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	132,218	2.197m ³ /T
Site borehole	284,025	4.719m ³ /T
River abstraction		
TOTAL WATER USAGE	416,243	6.916m ³ /T

Trends in Water Usage			
Year	Parameter		
	Named Water source	Total Water usage	Water per unit output
2019	Mains	160834	2.830m ³ /T
2019	Extracted Water	468000	6.240m ³ /T
2020	Mains	45,997	0.666m ³ /T
2020	Extracted Water	283,338	4.105m ³ /T
2021	Mains	132,218	2.197m ³ /T
2021	Extracted Water	284,025	4.719m ³ /T

Operator's comments :

Issues with water recovery system and boreholes through the year combined with utilisation of a larger dryer in the factory, have contributed to an increased reliance on mains water.

Signed 
(Authorised to sign as representative of the Operator)

Date.....26 January 2022.....

Permit Number: EPR/BV4177IS Operator: Volac International Ltd

Facility: Volac Felinfach Form Number: E1 / 25/01/2022

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Reporting of Energy Usage for the year 01.01.21 to 31.12.21

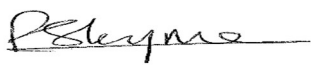
Energy Usage			
Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	17,146,061 kWh	17,146	0.285 MWh per tonne of output
LNG	62,108,592 kWh	62,109	1.032 MWh per tonne of output
Kerosene	477,060 Ltr	5,123	0.085 MWh per tonne of output
Biomass wood	53492.09 Tonnes	133,730**	
TOTAL		218,108	3.623 MWh per tonne of output

* Conversion factor for delivered electricity to primary energy = 2.6

Operator's comments :

*Electricity is grid power only. Remaining electricity was supplied from the VREL Biomass of which the biomass wood is the primary source

** Primary Energy – total tonnes of wood multiplied by 9 (avg. GJ /T) * 0.277778 = MWh

Signed 

(Authorised to sign as representative of the Operator)

Date.....26 January 2022.....