

Permit Reference Number: BX94551F

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: S1

Reporting of Emissions to Sewer for the year .....2022.....

Emissions to Sewer							
Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
S1	Aluminium	50 mg/l	4.5mg/l	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	10%
S1	Cadmium and its compounds	0.01 mg/l <sup>[6]</sup>	<0.00002	ISBN 0117532444	22/06/2022 12.34	UKAS 1314	6.6%
S1	Cadmium and its compounds	0.01 kg/year <sup>[7]</sup>	<0.0001	ISBN 0117532444	22/06/2022 12.34	UKAS 1314	6.6%
S1	Chromium (total)	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	7.6%
S1	Copper	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	7.2%
S1	Lead	1.0 mg/l <sup>[6]</sup>	0.2	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	7.0%
S1	Mercury and its compounds	0.005 mg/l <sup>[6]</sup>	<0.00003	ISBN 0117519073	22/06/2022 12.34	UKAS 1314	7.7%
S1	Mercury and its compounds	0.02 kg/year <sup>[7]</sup>	<0.0002	ISBN 0117519073	22/06/2022 12.34	UKAS 1314	7.7%
S1	Nickel	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	7.1%
S1	Zinc	2.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	06/12/2022 11.09	UKAS 1314	6.3%
S1	pH	Not less than 6 and not greater than 11	7.3	ISBN 0117514284	06/12/2022 11.09	UKAS 1314	0.1pH
S1	Flow	Not applicable					

[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. colourimetry.

[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.

[6] The emission limit values for cadmium and its compounds, chromium, copper, lead, mercury and its compounds, nickel and zinc are expressed as a maximum individual value.

[7] The emission limit values for cadmium and its compounds and mercury and its compounds are expressed as a maximum annual value.

Signed .....

Date .....

21/2/23

(Authorised to sign as representative of the Operator)

Permit Reference Number: BX94551F

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: R1

Reporting of Waste Disposal and Recovery for the year .....2022.....

Waste Disposal & Recovery			
Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Named haz. Waste			
Other hazardous wastes			
Total hazardous waste	D9/D13/D15	5	5
2) Non-Hazardous Wastes			
Named non-haz. Waste	Landfilled	2.620	
Other non-hazardous wastes	Recycled		499.54
Total non-hazardous waste			
TOTAL WASTE		-	

Trends in Waste Disposal and Recovery		
Year	Parameter Named Waste	Total Waste
2015		266.69
2016		486.5
2017		341.11
2018		541.933
2019		633.999
2020		313.01
2021		279
2022		502.16
2023		
2024		

**Operator's comments:**  
 Production levels steadily increased throughout 2022, full year production.  
 Increase in production volume and number of personnel.

Signed .....  
 (Authorised to sign as representative of the Operator)

Date: 21/2/23

Permit Reference Number: BX94551F

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: WU1

Reporting of Water Usage for the year .....2022.....

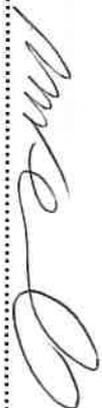
Water Usage		
Water Source	Usage (m <sup>3</sup> )	Specific Usage (m <sup>3</sup> /t)
Main's water	3021	1.3
Site borehole		
River abstraction		
<b>TOTAL WATER USAGE</b>	<b>3021</b>	<b>1.3</b>

Trends in Water Usage		
Year	Parameter Named Water source (Mains)	Total Water usage
2015	3975	
2016	5804	
2017	8201	
2018	2886	
2019	2323	
2020	7500	
2021	3021	
2022	3348	
2023		

**Operator's comments:**

Production levels steadily increased throughout 2021, full year production. Anodising processes optimised to reduce water usage, ongoing. Figure taken from water bills, current awaiting a rebate from the water company. (Water readings taken across 3 different meters.)

Signed .....



(Authorised to sign as representative of the Operator)

Date.....

21/2/23

Permit Reference Number: BX94551F

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: E1

Reporting of Energy Usage for the year .....2022.....

Energy Source	Energy Usage		CO <sub>2</sub> Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	5208	1005
Natural Gas	MWh	1656	347
Gas Oil	tonnes		
Heavy Fuel Oil	tonnes		
TOTAL			

\* Conversion factor for delivered electricity to primary energy = 2.4

Year	Parameter	CO <sub>2</sub> produced
2015	Primary Energy usage	1285
2016	Primary Energy usage	365
2017	Primary Energy usage	1273
2018	Primary Energy usage	2647.52
2019	Primary Energy usage	1955.9
2020	Primary Energy usage	1581
2021	Primary Energy usage	2010
2022	Primary Energy usage	1352
2023	Primary Energy usage	

**Operator's comments:**  
 Production levels steadily increased throughout 2022, full year production.  
 New machinery came online during 2021.  
 Gas readings estimated due to problem with fiscal meter, now resolved.

Signed .....  .....  
 (Authorised to sign as representative of the Operator)

Date: 21/2/23