Permit Reference Number: BX9455IF

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: S1

Reporting of Emissions to Sewer for the year .....2019.....

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	Aluminium	Not applicable	4.6mg/l	ISBN 0117532444	11/09/19 11.07	UKAS 1314	10%
S1	Cadmium and its compounds	0.01 mg/l [6]	<0.00002	ISBN 0117532444	7/2/20 10.00	UKAS 1314	6.6%
S1	Cadmium and its compounds	0.01 kg/year [7]	<0.0001	ISBN 0117532444	7/2/20 10.00	UKAS 1314	6.6%
S1	Chromium (total)	1.0 mg/l [6]	0.1	ISBN 0117532444	03/12/19 10.37	UKAS 1314	7.6%
S1	Copper	1.0 mg/l [6]	0.1	ISBN 0117532444	27/11/19 11.00	UKAS 1314	7.2%
S1	Lead	1.0 mg/l [6]	0.2	ISBN 0117532444	15/08/19 11.45	UKAS 1314	7.0%
S1	Mercury and its compounds	0.005 mg/l [6]	<0.00003	ISBN 0117519073	7/2/20 10.00	UKAS 1314	7.7%
S1	Mercury and its compounds	0.02 kg/year [7]	<0.0002	ISBN 0117519073	7/2/20 10.00	UKAS 1314	7.7%
S1	Nickel	1.0 mg/l [6]	0.1	ISBN 0117532444	20/05/19 12.22	UKAS 1314	7.1%
S1	Zinc	2.0 mg/l [6]	0.1	ISBN 0117532444	2/4/19 11.55	UKAS 1314	6.3%
S1	pH	Not less than 6 and not greater than 11	9.1	ISBN 0117514284	27/11/19 11.00	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. 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.
[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 .....

(authorised to sign as representative of the Operator)

Date...20/2/20.....

Date of Form: 16/04/18

Permit Reference Number: BX9455IF

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: R1

Reporting of Waste Disposal and Recovery for the year .....2019.....

Waste Disposal & Recovery			
Waste Description	Disposal Route	Disposal Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Named haz. Waste			
Other hazardous wastes			
Total hazardous waste	D9/D13/D15	218.437	
2) Non-Hazardous Wastes			
Named non-haz. Waste	Landfilled	123.24	
Other non-hazardous wastes	Recycled	292.322	
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		
2021		
2022		
2023		

Operator's comments :
Production levels steadily increased throughout 2019, full year production.
Building works taking place to site to improve site.

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

Date....20/2/20.....

Date of Form: 16/04/18

Permit Reference Number: BX9455IF

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: WU1

Reporting of Water Usage for the year .....2019.....

Water Usage		
Water Source	Usage (m^3)	Specific Usage (m^3/t)
Mains water	2323	
Site borehole		
River abstraction		
TOTAL WATER USAGE	2323	

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

Operator's comments :
Production levels steadily increased throughout 2019, 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.....20/2/20.....

Date of Form: 16/04/18

Permit Reference Number: BX9455IF

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: E1

Reporting of Energy Usage for the year .....2019.....

Energy Usage			
Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	CO_2 Produced (tonnes)
Electricity *	MWh	4704.3	1192.5
Natural Gas	tonnes	3635.3	763.4
Gas Oil	tonnes		
Heavy Fuel Oil	tonnes		
TOTAL	-		

Trends in Energy Usage		
Year	Parameter	
	Primary Energy usage	CO_2 produced
2015	7528	1285
2016	3009	365
2017	7222	1273
2018	11557.1	2647.52
2019	8339.6	1955.9
2020		
2021		
2022		
2023		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :
Production levels steadily increased throughout 2019, full year production.
New machinery came online during 2019.

Signed .....

(authorised to sign as representative of the Operator)

Date.....20/2/20.....

Date of Form: 16/04/18