

Permit Reference Number : BX94551F

Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : R1

Reporting of Waste Disposal and Recovery for the year 2016

Waste Disposal & Recovery		
Waste Description	Disposal	Recovery
	Route	Tonnes
1) Hazardous Wastes		
Named haz. Waste	Oil + Oil contaminated	25.6
Other hazardous wastes	Various	38.17
Total hazardous waste		
2) Non-Hazardous Wastes		
Named non-haz. Waste	Landfilled	12.93
Other non-hazardous wastes	recycled	410
Total non-hazardous waste		
TOTAL WASTE	-	

Trends in Waste Disposal and Recovery		
Year	Parameter	Total Waste
2010	Named Waste	
2011		366
2012		379.6
2013		370.81
2014		323.14
2015		266.69
2016		486.5

Operator's comments :

Decommissioning activities took place in 2016. Substances removed from machines, machinery and steelwork scrapped. Remaining product on site scrapped.

Signed Ritu Greening
(authorised to sign as representative of the Operator)

Date 20/01/17

Hazardous	Tonnes
20 01 21	28 016
17 04 09	0.3
13 03 09	0.2
16 11 03	0.7
12 01 14	1.4
15 02 02	2.02
12 01 20	3.20
08 01 17	0.43
15 01 10	1.10
16 02 14	1.0
13 02 08	0.69
13 02 06	0.95
13 05 03	23.78

Non Hazardous	Tonnes
20 03 01	12.93
15 01 01	0.74
15 01 03	10.00
15 01 02	0.6
20 01 10	398.7
	(removal of steel, copper, aluminium)
	(removal of stainless + equipment)
General waste	
Cardboard	
Wood	
Plastic	
Metal (steel, copper, aluminium)	
	398.7

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Form Number : S1

Reporting of Emissions to Sewer for the period from 01/01/16 to 31/10/16

Emissions to Sewer						
Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]
S1	Aluminium	Not applicable	—	ISBN 0117534444	not measured	UKAS 1314
S1	Cadmium and its compounds	0.01 mg/l [6]	—	ISBN 0117534444	not measured	UKAS 1314
S1	Cadmium and its compounds	0.01 kg/year [7]	—	ISBN 0117534444	not measured	UKAS 1314
S1	Chromium (total)	1.0 mg/l [6]	0.1	ISBN 0117534444	24/10/16 10:30	UKAS 1314
S1	Copper	1.0 mg/l [6]	0.1	ISBN 0117534444	24/10/16 10:33	UKAS 1314
S1	Lead	1.0 mg/l [6]	0.2	ISBN 0117534444	24/10/16 10:30	UKAS 1314
S1	Mercury and its compounds	0.005 mg/l [6]	—	ISBN 0117519073	not measured	UKAS 1314
S1	Mercury and its compounds	0.02 kg/year [7]	—	ISBN 0117519073	not measured	UKAS 1314
S1	Nickel	1.0 mg/l [6]	0.1	ISBN 0117534444	24/10/16 10:33	UKAS 1314
S1	Zinc	2.0 mg/l [6]	0.1	ISBN 0117534444	24/10/16 10:30	UKAS 1314
S1	pH	Not less than 6 and not greater than 11	8.7	ISBN 0117514444	24/10/16 10:33	UKAS 1314
S1	Flow	Not applicable	2084 m ³			

[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 Ritu Greening Date 24/10/17
(authorised to sign as representative of the Operator)

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Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : WU1

Reporting of Water Usage for the year 2016

Water Usage		
Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	5804	
Site borehole	None	
River abstraction	None	
TOTAL WATER USAGE		5804.

Trends in Water Usage		
Year	Parameter	Total Water usage
	Named Water source	
2013.	36379	
2014.	3270	
2015	3975	
2016	5804.	

Operator's comments :

Anodising commissioning up to October 2016.
Anodising process operated one shift per day from early October to 16 December 2016. Decommissioning activities on site.

Signed Ritu Greening,
(authorised to sign as representative of the Operator)

Date 24/01/17

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Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : E1

Reporting of Energy Usage for the year 2016

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	1998	331
Natural Gas	tonnes	1011	34
Gas Oil	tonnes		
Heavy Fuel Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage		
Year	Parameter	CO ₂ produced
2010		
2011	32077	5512
2012	29515	5038
2013	27689	4735
2014	1242	131
2015	7508	1285
2016	3009	365

Operator's comments :

Gas used for annealing boiler. Annealing operated on 1/shift per day between early October and 16 December 2016.
Same assembly activities Jan to Jun 2016. Decommissioning activities for remainder of year.

Signed Ruth Greening
(authorised to sign as representative of the Operator)

Date 24/01/17

