Permit Number: EPR/BU2489IT Operator: Sofidel UK Limited

Facility: Baglan Paper Mill Form Number: Water 1 30/09/2018

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	Emission Limit Value [10]	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4] [5]
W1	Biological Oxygen Demand (BOD)	25 mg/l	24-hour flow proportional composite sample	37 mg/L	GLPMETH030-005 by titrimetry	30/11/2021 – schedule 5 notification submitted	
W1	Chemical Oxygen Demand (COD)[7]	1.5 kg/T	Annually	0.3567 Kg/T	GLPMETH030-008 by digestion with acidic potassium dichromate and colorimetry		
W1	Total Suspended Solids	0.35 kg/T	Annually	0.0634 Kg/T	GLPMETH030-003 by gravimetry		
W1	Total Mercury and its compounds	--	24-hour flow proportional composite sample	<0.2 µg/L	Method ALS WAS013 CVAFS	02/03/2021 08/06/2021 07/09/2021 09/11/2021	
W1	Total Cadmium and its compounds	--	24-hour flow proportional composite sample	<0.07 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021 08/06/2021 07/09/2021 09/11/2021	
W1	pH	9	Instantaneous	8.68	Standard Sensor		
W1	pH	6	Instantaneous	6.29	Standard Sensor		
W1	Priority Hazardous Substances Screen [8]	--	24-hour flow proportional composite sample	Please see report Priority Hazardous Substances Submission	GCMS analysis at UKAS accredited laboratory	09/11/2021	

Emission Point	Substance / Parameter	Emission Limit Value [10]	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4] [5]
W1	Temperature	Maximum 40°C	Instantaneous	27.7°C	Standard Temperature Sensor	20/07/2021	
W1	Flow rate	30 l/s	Instantaneous	11 l/s	MCERTS self-monitoring of effluent flow scheme		
W1	Maximum daily volume[6]	850 m^3/day	Instantaneous	Max/Mean m^3/day Jan;791/502 Feb;694/516 Mar;660/508 Apr;855/546 May;406/126 June;491/268 July;539/280 Aug;540/320 Sept;980/363 Oct;574/370 Nov;550/373 Dec;634/423	MCERTS self-monitoring of effluent flow scheme	Jan;21/01/2021 Feb;10/02/2021 Mar;20/03/2021 Apr;27/04/2021 shutdown May;20/05/2021 June;04/06/2021 July;13/07/2021 Aug;11/08/2021 Sept;21/09/2021 shutdown Oct;02/10/2021 Nov;18/11/2021 Dec;08/12/2021	
W1	Total Nitrogen	0.15 kg/T	Annually	0.0184 Kg/T	Method ALS TM212 High Temperature Catalytic Oxidation		
W1	Total Phosphorus	0.012 kg/T	Annually	0.007 Kg/T	Method ALS WAS076 ICP-MS		
W1	AO_x	0.05 kg/T	Annually	0.0003 Kg/T	Method 3023 using CL10-AOX analyser	12/01/2021 09/03/2021 11/05/2021 13/07/2021 07/09/2021 09/11/2021	
W1	Fe	--	24-hour flow proportional composite sample	107 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	
W1	Pb	--	24-hour flow proportional composite sample	<0.3 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	
W1	Zn	--	24-hour flow proportional composite sample	74 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	

W1	As	--	24-hour flow proportional composite sample	4.4 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	
W1	Cu	--	24-hour flow proportional composite sample	2.5 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	
W1	Cr	--	24-hour flow proportional composite sample	<0.51 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	
W1	Ni	--	24-hour flow proportional composite sample	1.9 µg/L	Method ALS WAS 076 ICP-MS	02/03/2021	

[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] In the case of results for the Hazardous pollutants screen supply the quoted Limit of Detection (LOD) with the result.

[6] In the case of daily flow supply the maximum and mean figure for each month within the 6 month reporting window.

[7] If TOC is already monitored as a key process parameter, there is no need to measure COD, however the correlation between the two parameters must established and checked regularly.

[8] Hazardous pollutants screen substances are: Anthracene, Brominated diphenyl ether, Cadmium, C10-13 Chloroalkanes, Endosulphan, Hexachlorobenzene, Hexachlorobutadiene, Hexachloro-cyclohexane, Mercury and its compounds, Nonylphenol (4-Nonylphenol), Pentachlorobenzene, Polycyclic aromatic Hydrocarbons (PAHs), Tributyltin compounds (Tributyltin-cation) Report submitted January 2022 for Water Framework Directive Priority Hazardous Substances

[9] For integrated or multi product mills where the BAT AEL range has been calculated according to a mixing rule based on their share of the discharge, based on information supplied by the Operator, the Operator must notify Natural Resources Wales if the product/ raw material mix changes by more than 10% in any direction.

[10] Kg/T Net annual production used for calculations based on BREF definition

K. Mackie

Signed …… Date 27th January 2022

(Authorised to sign as representative of Operator)