

Permit Number: EPR/BJ9703IM

Operator: Kimberly Clarke Ltd

Facility: Flint Paper Mill

Form Number: Air1 / 30/9/18

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A6	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	No Limit Set	Half hourly average		Monitoring methods used shall be in accordance with Environment Agency 'Technical Guidance Note M2 <i>Monitoring of stack emissions to air</i>		
A7	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	No Limit Set	Half hourly average				
A7	Particulate Matter	No Limit Set	Minimum 4 hour sample				
A15	Particulate Matter	No Limit Set	Minimum 4 hour sample				

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.

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/BJ9703IM

Operator: Kimberly Clarke Ltd

Facility: Flint Paper Mill

Form Number: Water1 / 30/09/18

Reporting of emissions to water (other than to sewer) for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty/ LOD ^{[4] [5]}
W2	Flow Rate	500 litres/ sec	Instantaneous		MCERTS self-monitoring of effluent flow scheme		
W2	Maximum Tidal Volume ^[6]	2500 m ³ /day	From 30 mins after high tide for a maximum of 2 hours		MCERTS self-monitoring of effluent flow scheme		
W2	Maximum Daily Volume ^[6]	5000 m ³ /day	24 hours		MCERTS self-monitoring of effluent flow scheme		
W2	pH (units)	5 (min) 9 (max)	Instantaneous		BS EN 06068-2.50:1995		
W2	Temperature	Maximum Temperature 30°C	Instantaneous		Standard temperature sensor		
W2	Chemical oxygen demand (COD) ⁷	No Limit Set	Spot sample		BS 6068-2.34:1998		
W2	Biochemical oxygen demand (BOD) ⁵	35 mg/l	Tidal flow proportional sample		BS EN 1899-1 (1998)		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty/ LOD ^{[4] [5]}
W2	Total suspended solids	80 mg/l	Tidal flow proportional sample		BS EN 872:2005		
W2	AOx	No Limit Set	Tidal flow proportional sample				
W2	Ammonia as N	4 mg/l	Tidal flow proportional sample		BS EN ISO 11732 or ISBN 0117516139		
W2	Total nitrogen	No Limit Set	Tidal flow proportional sample		BS EN ISO 11905-1:1998, BS 60608-2.62:1998		
W2	Total phosphorus	No Limit Set	Tidal flow proportional sample		BS EN ISO 15681-1:2004, BS6068-2.86:2006		
W2	Metals – Zn, Cu, As, Pb, Ni, Total and dissolved	No Limit Set	Tidal flow proportional sample		Method in accordance with M18 guidance note		
W2	Pentachlorophenol (PCP) and its compounds	4 µg/l	Tidal flow proportional sample		BS EN 12673:1999		
W2	Priority Hazardous Substances ⁸	No Limit Set	Tidal flow proportional sample		GCMS analysis at UKAS accredited laboratory		
W2	Chemical Oxygen Demand (COD)	4.0 kg/t	Annually ⁹		COD: BS ISO 15705		
W2	Total suspended solids (TSS)	0.4 kg/t	Annually ⁹		BS EN 872		
W2	Total nitrogen	0.15 kg/t	Annually ⁹		BS EN 12260		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty/ LOD ^{[4] [5]}
W2	Total phosphorus	0.015 kg/t	Annually ⁹		BS EN ISO 6878 followed by BS EN ISO 15681- 1 Or BS EN ISO 15681- 2		
W2	Adsorbable organically bound halogens (AOX)	0.05 kg/t	Annually ⁹		AOX = BS EN ISO 9562		

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 be 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)
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 the Environment Agency if the product/ raw material mix changes by more than 10% in any direction.

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/BJ9703IM

Operator: Kimberly Clarke Ltd

Facility: Flint Paper Mill

Form Number: Energy1 / 30/09/18

Reporting of Energy Usage for the year 2018

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/BJ9703IM

Operator: Kimberly Clarke Ltd

Facility: Flint Paper Mill

Form Number: Performance1 / 30/09/18

Reporting of other performance indicators for the period 01/01/YYYY to 31/12/YYYY (annually)

Parameter	Units		Methodology
Water	Total m ³ /p.a	m ³ /t	Measured or Calculated
<u>Water Inputs to the Mill</u> ³			
Surface water (actual not licensed) eg: river water			
Groundwater (actual not licensed) eg: borehole water			
Mains water (only report if used in the paper or pulp manufacturing process)			
Other water (eg; if rainwater harvesting is practised)			
<u>Water used in manufacturing</u> ³			
Cooling water (once through or hybrid systems)			
Process water			
Other water used in manufacturing			
<u>Other inputs of water/moisture</u>			
Pulp or other fibre or wood at X% moisture content ²			
Waste paper for recycling at X% moisture content ²			
<u>Water outputs</u> ³			
Waste Water discharged to surface waters NB; this figure should be the one used to report water usage per tonne as per BREF benchmarks under BATC No.5 and should exclude site drainage and cooling water			
Waste water discharged to sewer			
Losses to evaporation			
Losses in final product at Y% moisture content ²			
Losses in major waste stream outputs at Y% moisture content such as sludge ²			
Losses in major waste stream outputs at X% moisture content such as rejects (EWC 03 03 07) ²			

Parameter	Units	
Waste	Total tonnes/p.a	Measured or Calculated
<u>Waste/raw material inputs (other than those reported via quarterly waste returns)</u>		
Pulp		
Starch & main fillers		
Other significant raw material inputs if >1000 tonnes		
<u>Waste/raw material outputs (other than those reported via quarterly waste returns)</u>		
<u>Production (Net annual production reported as total as defined in the BREF BATCs¹)</u>		

Notes:

1. (i) For paper mills: the unpacked, saleable production after the last slitter winder, i.e. before converting. (ii) For off-line coaters: production after coating. (iii) For tissue mills: saleable production after the tissue machine before any rewinding processes and excluding any core. (iv) for market pulp mills: production after packing (ADt). (v) For integrated mills: Net pulp, production refers to the production after packing (ADt) plus the pulp transferred to the paper mill (pulp calculated at 90 % dryness, i.e. air dry). Net paper production: same as (i)
2. X% & Y% moisture content. Is defined as the average moisture content over the 12 month period. Monitoring frequency and test method (in the absence of any EN standard test method) determined by each mill but to be noted on the return for each input/output.
3. All parameters in **bold text** are required to be reported on, others are optional.

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)