

Notice of variation and consolidation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Kimberly-Clark Limited

Flint Paper Mill
Aber Road
Flint
Flintshire
CH6 5EX

Variation application number
EPR/BJ9703IM/V002

Permit number
EPR/BJ9703IM

Flint Paper Mill

Permit number EPR/BJ9703IM

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation and consolidation of an environmental permit.

This variation has been issued to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the Paper & Pulp Sector. At the same time the permit has been converted into the current EPR Permit format.

The Schedules specify the changes made to the permit.

The main features of the permit are as follows.

Kimberly Clark Flint site consists of three mills and a distribution centre. Flint mill produces baby wipes from nonwoven base sheets and is not under IPPC control. Delyn and Coleshill mills produce heavy wet crepe and tissue products for Kimberly Clark Professional sector and fall under IPPC control. The three mills and distribution centre share a 96 acre site on the edge of the Aber Park Industrial Estate, located on the outskirts of Flint in Flintshire, North Wales.

Within sight of the Dee Estuary, the mills are bounded on the North by the A548 and the railway. To the South lies the A55, with the town of Flint to the East and farmlands to the West. The Dee estuary with its SSSI is 600m from the site boundary. A short row of terrace houses back onto the site boundary on the NNE. However, the remaining neighbouring area is covered by industry, with the closest housing estate being 150m away (Old London Road).

The National Grid Reference for the site is SJ 236 735 and for the effluent outfall (which belongs to Coleshill Mill) SJ 246 741.

Between them the mills occupy only 19% of the former farmland that makes up the site; the rest has been transformed into a carefully landscaped environment. The lakes, streams, shrubs and trees that cover the site, provide habitats to a wide diversity of wildlife. A landscape gardening contractor continually maintains the site.

The main purpose of the activities at the installation is the manufacture of paper towels and tissues. Kimberly-Clark Limited produces approximately 32,000 tonnes of wet crepe hand towel and 30,000 tonnes of toilet tissue per annum from two paper mills, Delyn and Coleshill, at its Flint Site, almost all of which is destined for the domestic UK market. The products are manufactured mostly from recycled fibre produced on site from the recycling of used newsprint, office waste and corrugates, although up to 2 % virgin fibre is brought in and used in the Coleshill Mill in products where there is a need for a higher specification.

At the Delyn Mill secondary fibre stock (SFS) pulp is produced by pulping the waste paper fed from the enclosed storage warehouse and waste tissue from the Coleshill Mill. The SFS is then screened in various stages to remove wood and plastics, metal staples and clips, unpulped fibre and coarse contaminants and adhesive contaminants. It is then thickened in wire presses and dirt, ink and ash particles are washed out. There are no de-inking and bleaching processes in this mill. Reject product and waste towel recycled within the Delyn Mill is repulped separately and is added to the SFS after a metal removal stage.

Various dyes and additives are added to the SFS to strengthen and dye the stock. The stock is drained on a wire screen, pressed on a heated cylinder and dried between two layers of fabric. The towel produced is then cut and wound onto large rolls prior to converting to finished product.

The recycled paper pulping process at Coleshill Mill is similar but involves careful selection of the waste mixture, depending on the finished product requirements, and additional de-inking and bleaching stages. A surfactant is added to the initial pulp to help flotation later in the process after the various screening stages to remove wood and plastics, metal staples and clips, unpulped fibre and coarse contaminants and adhesive contaminants.

Fine ink and dirt particles are removed by froth flotation using micro-bubbles of air. The foam is removed from the flotation tank and is collected and degassed before appropriate off-site disposal. The de-inked SFS then passes through a series of cleaners and screens to remove fine contaminants followed by a washing process to remove ash/filler and colloidal material. The residual inks and adhesive residues are dispersed throughout the slurry by agitation and heating. The dyes in the SFS are removed by bleaching with a stabilised solution of sodium hydrosulphite at elevated temperatures (~90 OC) after a vacuum degassing stage.

There is also a simple virgin pulper system in the Coleshill Mill which feeds to the SFS feed tank with the proportion dictated by the finished product requirements. Virgin fibre constitutes less than 2 % of the total fibre used per year.

In both mills the filtrate from the thickening and other processes is then clarified at each mill site to reduce the level of suspended solids. There is no sewage connection at the mills. The water from all internal drains within each mill and any external drains with the potential for contamination is recycled through the respective mill clarifiers. Other external drains with non-contaminated run-off are discharged through interceptors to either of the lakes and thence to the Dee Estuary.

At each mill sludge from the clarifier is de-watered in a press and stored in the crumb store prior to appropriate off-site disposal. Other wastes and rejects from the process are also stored in skips on hardstanding prior to appropriate off-site disposal. The drainage from the storage areas is recycled after clarification.

The clarified water is mostly recycled within the respective mill with the excess water being sent to the effluent treatment plant at Coleshill Mill before final discharge to holding tanks prior to release to the Dee Estuary on the ebb tide.

The effluent treatment plant is a conventional aerobic activated sludge plant with a sedimentation clarifier. The aeration/digestion stage is a completely mixed tank with surface aeration turbines and submerged invent mixers. The overflow from the aeration tank is degassed before the final clarifier. Settled sludge is removed by siphon tubes on the rotating bridge of the clarifier. Sludge is either recirculated or de-watered for appropriate disposal.

The main releases from the paper mills are the discharge of effluent from the effluent treatment plant, the exhaust stacks from the boilers and dryers and the vent stacks. All these releases have previously been regulated under IPC Authorisation number AU6820 and IPPC permit BJ9703. An ISO 14001 accredited Environmental Management System (EMS) is in place to ensure that there is an ongoing review of the activities in the installation in order to minimise the environmental impact.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application received	Received 21/02/2001	Application for paper mill.
Response to request for additional information, request dated 29/04/2002	Response dated 21/05/2002	
Permit determined EPR/BJ9703IM	27/03/03	Permit issued to Kimberly –Clark Ltd
Environment Agency Paper and Pulp Sector Review 2011 Variation determined EPR/BJ9703IM/V002 Permit EPR/BJ9703IM	27/09/11	Varied and consolidated permit issued in modern condition format

End of Introductory note

Notice of variation and consolidation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/BJ9703IM

issued to:

Kimberly-Clark Limited ("the operator")

whose registered office is

1 Tower View

Kings Hill

West Malling

Kent

ME19 4HA

company registration number **00308676**

to operate a regulated facility at

Aber Road

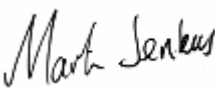
Flint

Flintshire

CH6 5EX

to the extent set out in the schedules.

The notice shall take effect from 27/09/2011

Name	Date
	27th September 2011

Martin Jenkins

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BJ9703IM

This is the consolidated permit referred to in the variation and consolidation notice for application
EPR/BJ9703IM/V002 authorising,

Kimberly-Clark Limited ("the operator"),

whose registered office is

1 Tower View

Kings Hill

West Malling

Kent

ME19 4HA

company registration number **58614**

to operate an installation at:

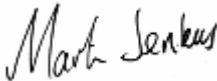
Aber Road

Flint

Flintshire

CH6 5EX

to the extent authorised by and subject to the conditions of this permit.

Name	Date
	28 th September 2011

Authorised on behalf of the Environment Agency

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.5 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.6 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
 - (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity and waste types
S6.1 A1 (b)	Producing in industrial plant, paper board where the plant has a production capacity of more than 20 tonnes per day. Production takes place in 2 Mills the Delyn and Coleshill Mills.	From receipt of waste paper and virgin fibre at both Mills. To despatch of products to distribution warehouse.
S5.3 A1 (c) (i)	Biological treatment of effluent from the paper making process in on-site effluent treatment plant.	From transfer of effluent from both Paper Mills to the effluent treatment plant through to discharge of treated effluent to the Dee Estuary. Effluent shall only be discharged to the Dee Estuary on the ebb tide 30 mins after high tide for a maximum of 2 hours.
Directly Associated Activity		
Combustion Plant	Provision of steam for use in the process by burning gas (or gas oil) in 2 boilers with a combined thermal input of 22.66MW.	Combustion of fuel to release of exhaust gases to atmosphere.
Surface water disposal	Discharge of clean uncontaminated site surface water from roofs, paths and roads	From transfer through the drainage system to discharge into the Dee Estuary via Flint mill and the Swinchard Brook.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to question B2.3 given the Application sections 5.0 and 6.0.	22/02/2001
Response to Schedule 4 notice Request dated 29/04/2002	Response to question 4.	22/05/2002

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC 1	The operator shall submit a report in writing to the Agency that reviews the options for additional effluent treatment. The report shall include, but should not be limited to, a review of Best Available Techniques for the reduction of Biological Oxygen Demand level in the final effluent to 25mg/l or less; and the potential for a reduction in the concentration of other relevant parameters listed in Table S3.2 of the permit.	6 months from the effective date of the variation

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities

Maximum quantity	No limit on maximum quantity, subject to appropriate storage.
Waste code	Description
20 01 01	Paper and Cardboard – Municipal Waste
15 01 01	Paper and Cardboard Packaging
19 12 01	Paper and Cardboard – From the Mechanical Treatment of Waste

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Delyn Mill Boiler Flue - Point A1 in Figure 5.2.2.1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boiler Plant	200mg/m ³	Half hourly average	Every 6 monthsNote1	BS EN 14792 or ISO 10849
A2 Delyn Mill drying hood exhaust - point A2 in Figure 5.2.2.1	Particulates	Drying hood exhaust	No limit set	Minimum 4 hour sample	Every 6 months Note1	BS13284-1 and MID
A3 Delyn Mill H&V extract Fans (x12) - points A3 in Figure 5.2.2.1	No parameters set	H&V extract fans	No limit set	-	-	-
A4 Delyn Mill H&V louvered vents (x9) - points A4 in Figure 5.2.2.1	No parameters set	H&V louvered vents	No limit set	-	-	-
A5 Delyn Mill hot water tank exhaust - point A5 in Figure 5.2.2.1	No parameters set	Hot water tank exhaust	No limit set	-	-	-
A6 Colehill Mill boiler flue - point A6 in Figure 5.2.2.1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boiler Plant	250mg/m ³	Half hourly average	Every 6 monthsNote1	BS EN 14792 or ISO 10849

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A7 Coleshill Mill drying hood - point A7 in Figure 5.2.2.1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Drying hood	50 mg/m ³	Half hourly average	Every 6 months ^{Note1}	BS EN 14792 or ISO 10849
	Particulates		No limit set	Minimum 4 hour sample		BS13284-1 and MID
A8 Coleshill Mill H&V fan 1 - point A8 in Figure 5.2.2.1	No parameters set	H&V fan 1	No limit set	-	-	-
A9 Coleshill Mill H&V fan 2 - point A9 in Figure 5.2.2.1	No parameters set	H&V fan 2	No limit set	-	-	-
A10 Coleshill Mill H&V fan 3 - point A10 in Figure 5.2.2.1	No parameters set	H&V fan 3	No limit set	-	-	-
A11 Coleshill Mill H&V fan 4 - point A11 in Figure 5.2.2.1	No parameters set	H&V fan 4	No limit set	-	-	-
A12 Coleshill Mill H&V fan 5 - point A12 in Figure 5.2.2.1	No parameters set	H&V fan 5	No limit set	-	-	-
A13 Coleshill Mill H&V fan 6 - point A13 in Figure 5.2.2.1	No parameters set	H&V fan 6	No limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A14 Coleshill Mill de-ink vacuum exhaust - point A14 in Figure 5.2.2.1	No parameters set	De-ink vacuum exhaust	No limit set	-	-	-
A15 Coleshill Mill dust extraction - point A15 in Figure 5.2.2.1	Particulates	Dust extraction flue	No limit set	Minimum 4 hour sample	Every 6 months	BS13284-1 and MID
A16 Coleshill Mill stock preparation extract duct - point A16 in Figure 5.2.2.1	No parameters set	Stock preparation extract duct	No limit set	-	-	-
A17 Coleshill Mill roof mounted air extract units (x8) - point A17 in Figure 5.2.2.1	No parameters set	Coleshill Mill roof mounted air extract units	No limit set	-	-	-
A18 Coleshill mist extract	No Parameters set	Coleshill mist extract	No limit set	-	-	-
Note 1: Monitoring to be undertaken when burning gas as the fuel.						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 point of discharge from Flint Mill Lake to Swinchard Brook	No parameters set	Uncontaminated site surface water	No limit set	-	-	-
W2 point of discharge to the Dee Estuary (at Grid Ref: SJ 246 741) from Effluent treatment plant	Biological Oxygen Demand	Final effluent discharged to the Dee Estuary ^{Note 4}	70 mg/l	Tidal flow proportional sample	Weekly ^{Note1}	BS EN 1899-1 (1998)
	Ammonia ^{Note 6}		8 mg/l	Tidal flow proportional sample	At every discharge to the Dee Estuary	BS EN 11732:2005
	Chemical Oxygen Demand		No limit set	Spot Sample ^{Note 5}	Daily ^{Note1}	BS 6068-2.34:1998
	Suspended solids ^{Note 6}		80 mg/l	Tidal flow proportional sample	At every discharge to the Dee Estuary	BS EN 872:2005
	Total Mercury and its compounds		0.1 ug/l	Tidal flow proportional sample	Quarterly ^{Note 1}	BS EN 1483:2007
	Pentachlorophenol (PCP) and its compounds		4 ug/l	Tidal flow proportional sample	Quarterly ^{Note 1}	BS EN 12673:1999
	Total Cadmium and its compounds		0.3 ug/l	Tidal flow proportional sample	Quarterly ^{Note 1}	BS EN ISO 5961:1995
	pH		5 - 9	Instantaneous	Continuous ^{Note2}	BS EN 06068-2.50:1995
	Dangerous substance screen ^{Note 3}		No limit set	Tidal flow proportional sample	Annually ^{Note1}	GC/MS analysis to be carried out by UKAS accredited laboratory
	Temperature		Maximum Temperature 30°C	Instantaneous	Continuous ^{Note2}	Standard temperature sensor

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Flow		500 l/second	Instantaneous	Continuous ^{Note2}	MCERTS self monitoring of effluent flow scheme
	Total Nitrogen		No limit set	Tidal flow proportional sample	Weekly ^{Note1}	BS EN ISO 11905-1:1998, BS 6068-2.62:1998
	Total Phosphorous		No limit set	Tidal flow proportional sample	Weekly ^{Note1}	BS EN ISO 15681-1:2004, BS6068-2.86:2003
	AOx		No limit set	Tidal flow proportional sample	Quarterly ^{Note 1}	As agreed in writing with the Agency.
	Maximum Tidal volume		3182 m ³ /tide	From 30 mins after high tide for a maximum of 2 hours	Continuous ^{Note2}	MCERTS Self Monitoring of effluent flow scheme
	Maximum Daily Volume		6364 m ³ /tide	24 hours	Continuous ^{Note2}	MCERTS Self Monitoring of effluent flow scheme

Note 1: Monitoring shall be undertaken when discharging on the ebb tide to the Dee Estuary.

Note 2: Monitoring shall be undertaken during every discharge on the ebb tide to the Dee Estuary.

Note 3: Water Framework Directive Dangerous Substances and other plant protection substances detailed in Schedule 6 – Interpretation.

Note 4: Final effluent is the effluent that is discharged from the site to the Dee Estuary.

Note 5: The spot sample may be taken from either the final clarifier outlet or final effluent discharge.

Note 6: Where in-house analysis is used for compliance assessment purposes for the following substances, a duplicate sample shall be sent for external analysis (UKAS/ISO17025) at a six monthly frequency: Suspended Solids and Ammonia.

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1	A1, A2, A6, A7 and A15	Every 6 months	From date of variation issue
Emissions to water Parameters as required by condition 3.5.1	W2	Every 12 months where monitoring frequency is annual and every 3 months for monitoring frequency less than annual.	From date of variation issue

Table S4.2 Performance parameters

Parameter ^{Note 2}	Frequency of assessment	Units
BOD/ADT	Quarterly	kg/ADT ^{Note1}
Suspended solids/ADT	Quarterly	kg/ADT ^{Note1}
Total Nitrogen/ADT	Quarterly	kg/ADT ^{Note1}
Total Phosphorous/ADT	Quarterly	kg/ADT ^{Note1}
NOx /ADT	Quarterly	Tonnes/ADT ^{Note1}
CO ₂ /ADT	Quarterly	Tonnes/ADT ^{Note1}

Note 1: ADT means Air Dried Tonne

Note 2: Assessment may be based on actual monitoring or use of emission factors (fuel consumption)

Table S4.3 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	26/09/2011
Water	Form water 1 or other form as agreed in writing by the Environment Agency	26/09/2011
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	26/09/2011
Waste subject to condition 4.2.5	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by the Environment Agency	N/A

Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

(a) If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	EPR/BJ9703IM
Name of operator	Kimberly- Clark Limited
Location of Facility	Flint Paper Mill, Aber Road, Flint, Flintshire.
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Kimberly-Clark Limited.

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“ADT” means Air Dried Tonnes (6% moisture)

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit..

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

Water Framework Directive Dangerous Substances and other plant protection substances are: aldrin, dieldrin, endrin, atrazine, endosulfan, hexachlorobenzene, simazine, trifluralin, azinphos methyl, fenitrothion, dichlorovos, cypermethrin, TBT and chlorpyrifos.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

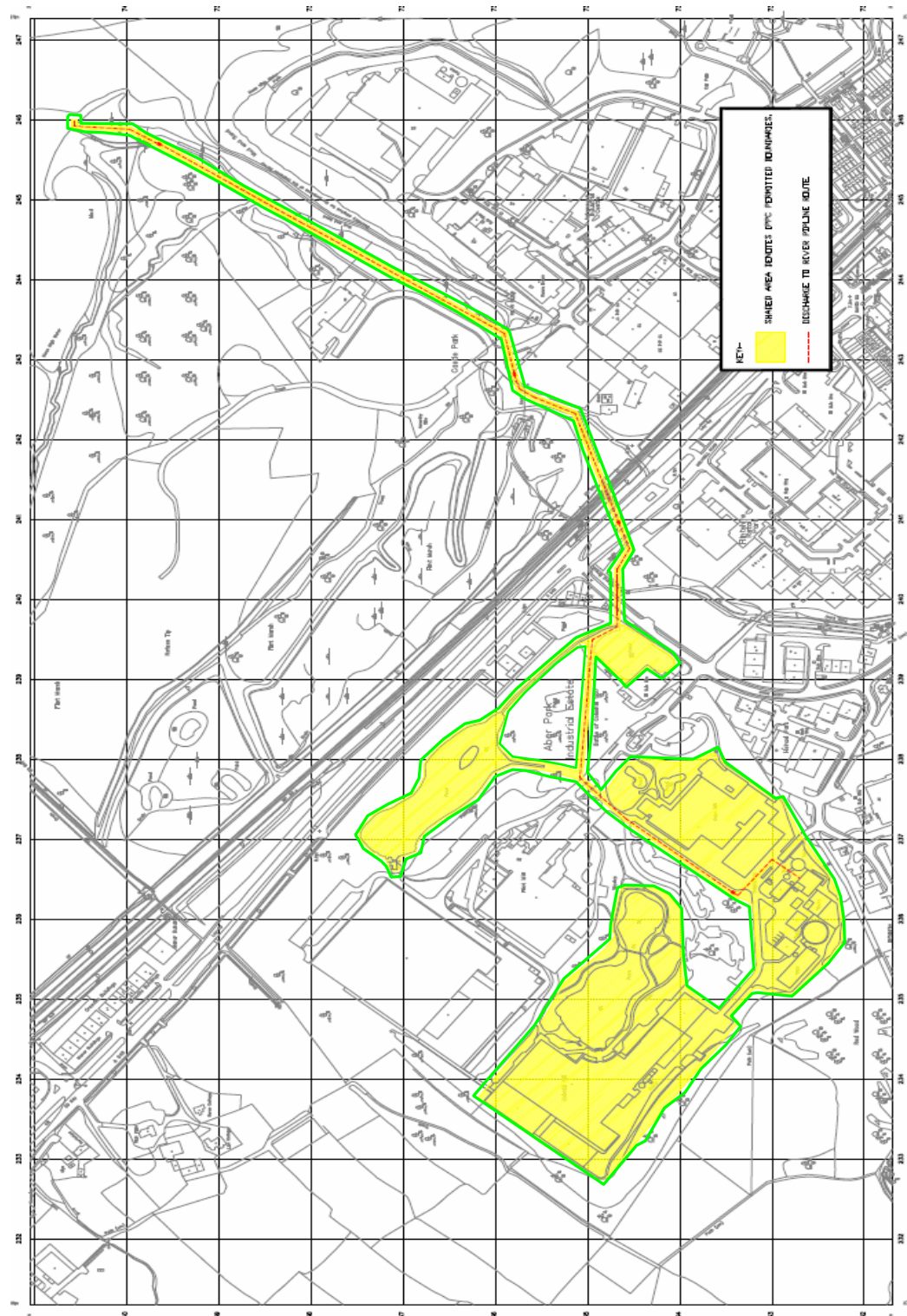
“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

Schedule 7 - Site plan



END OF PERMIT

Permit Number: BJ9703IM

Operator: Kimberly-Clark Limited

Facility: Flint Paper Mill

Form Number: Air1 / 26/09/11

Reporting of emissions to air for the period from to

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³	Half hourly average		BS EN 14792		
A2	Particulates	No limit set	Minimum 4 hour sample		BS EN 13284-1		
A6	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	Half hourly average		BS EN 14792		
A7	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	50 mg/m ³	Half hourly average		BS EN 14792		
A7	Particulates	No limit set	Minimum 4 hour sample		BS EN 13284-1		
A15	Particulates	No limit Set	Minimum 4 hour sample		BS EN 13284-1		

(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 Environment Agency 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 Kimberly- Clark Limited)

Permit Number: BJ9703IM

Operator:

Kimberly – Clark Limited

Facility: Flint Paper Mill

Form Number:

Water1 / 26/09/11

Reporting of emissions to water (other than to sewer) and land for the period from to

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
W2	Biological Oxygen Demand	70 mg/l	Tidal flow proportional sample		BS EN 1899-1 (1998)		
W2	Ammonia	8 mg/l	Tidal flow proportional sample		BS EN11732:2005		
W2	Chemical Oxygen Demand	No limit set	Spot sample		BS 6068-2.34:1998		
W2	Suspended solids	80 mg/l	Tidal flow proportional sample		BS EN 872:2005		
W2	Total Mercury and its compounds	0.1 ug/l	Tidal flow proportional sample		BS EN 1483:2007		
W2	Pentachlorophenol (PCP) and its compounds	4 ug/l	Tidal flow proportional sample		BS EN 12673:1999		
W2	Total Cadmium and its compounds	0.3ug/l	Tidal flow proportional sample		BS EN ISO 5961:1995		
W2	pH	5 - 9	Instantaneous		BS EN 06068-2.50:1995		
W2	Dangerous Substance screen	No limit set	Tidal flow proportional sample		GC/MS analysis to be carried out by UKAS accredited laboratory		
W2	Temperature	Maximum Temperature 30°C	Instantaneous		Standard temperature sensor		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
W2	Flow	500 l/second	Instantaneous		MCERTS self monitoring of effluent flow scheme		
W2	Total Nitrogen	No limit set	Tidal flow proportional sample		BS EN ISO 11905-1:1998, BS 6068-2.62:1998		
W2	Total Phosphorous	No limit set	Tidal flow proportional sample		BS EN ISO 15681-1:2004, BS6068-2.86:2003		
W2	AOx	No limit set	Tidal flow proportional sample		Method to be agreed in writing upon completion of IC1		
W2	Maximum Tidal Volume	3182 m ³ /tide	Time period from high tide to low tide		MCERTS self monitoring of effluent flow scheme		
W2	Maximum Daily Volume	6364 m ³ /tide	24 hours		MCERTS self monitoring of effluent flow scheme		

(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 Environment Agency 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 Kimberly – Clark Limited)

Permit Number: BJ9703IM

Operator: Kimberly-Clark Limited

Facility: Flint Paper Mill

Form Number: Performance1 / 26/09/11

Reporting of other performance indicators for the period **to**

Parameter	Units
BOD/ADT	kg/ADT
Suspended solids/ADT	kg/ADT
Total Nitrogen/ADT	kg/ADT
Total Phosphorous/ADT	kg/ADT
NOx /ADT	Tonnes/ADT
CO ₂ /ADT	Tonnes/ADT

Operator's comments :

Signed Date.....
(Authorised to sign as representative of Kimberly – Clark Limited)

.