Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

DS Smith Paper Limited

Kemsley Paper Mill
Kemsley
Sittingbourne
Kent
ME10 2TD

Variation application number

EPR/BJ7468IC/V010

Permit number

EPR/BJ7468IC

Kemsley Paper Mill
Permit number EPR/BJ7468IC

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The schedules specify the changes made to the permit.

Changes introduced by this variation notice

This substantial variation is to modify the effluent treatment plant (ETP) by replacing the current secondary aeration lagoon with an anaerobic digestion (AD) process. The bio-gas produced will be upgraded/converted to bio-methane by the removal of moisture and other substances such as carbon dioxide, hydrogen sulphide and volatile organic compounds, prior to being injected into the national grid.

Additional point source emissions to air are included as follows:

- emergency flares (emission points 154 & 155);
- bio-gas upgrade exhaust (emission point 156); and
- AD biomass tank vent (emission point 157).

Table S2.3 of this permit is updated to increase the maximum throughput of the mechanical treatment of the pulping rejects from 55,000 to 78,000 tonnes per annum.

The opportunity was also taken to:

- remove the directly associated activity and point source emission for the release to sewer. There is no longer a connection from the lorry wash to the sewer, with waste water recirculated and effluent disposed of off-site;

- to update Table 3.1 of this permit as follows:

    - amend emission point 114 to 114a/114b and amend the source from Nash Pump Exhaust to blower exhausts; and
    - amend emission points 120-121 to 121a/121b and amend the source from Sulzer Blower vents to blowers exhausts.

    This is the result of a minor operational change to the vacuum system, agreed with the Environment Agency in December 2016.

- to amend the annual limits in Table S3.4 of this permit based on recycled fibre (RCF) and de-inking operations.

Brief description of the process

Kemsley Mill is located near Kemsley, Kent ME10 2TD on the North Kent coast at National Grid Reference 591771, 166339. It is adjacent to the Swale estuary, a Site of Special Scientific Interest (SSSI), Special Protected Area (SPA), Ramsar and Marine Conservation Zone (MCZ). The local area is largely industrial premises with some local residential housing.

The main purpose of the installation is the manufacture of various recycled paper products on three paper making machines: No 3 and No 4 have a combined capacity of up to 750,000 Air Dry Tonnes (ADT) per annum and No 6 has a capacity of up to 365,000 ADT per annum.

Production of recycled pulp is also undertaken on site in a Recycled Fibre (RCF) Plant, which has a capacity of up to 100,000 ADT per annum of pulp. The RCF plant includes de-inking and bleaching stages.

Mechanical treatment of pulping rejects takes place to recover materials and has a maximum throughput of 78,000 tonnes per annum.

The site produces corrugated case material liners, plasterboard liners, waste based fluting and other specialist grades such as production of high yield pulp and white top test liner.

The following additional activities are carried out to enable the primary activity:

Operation of a two stage ETP, with primary and secondary stages and is designed specifically for the treatment and disposal of waste waters arising from the papermaking process. The secondary stage involves the anaerobic digestion of the waste waters with the bio-gas produced upgraded for injection into the national grid.

The ETP receives wastewater from a number of sources at the Kemsley site and discharges to the Swale, a saline estuary. The discharge channel lies within the MCZ but is outside of the SSSI, SPA and Ramsar. The process is designed to return a proportion of treated waters to the paper mills.

There is a Combined Heat and Power (CHP) plant which provides power and heat to the site. There is also a fluidised bed combustor which is designed to incinerate paper sludge and plastics. The CHP plant and fluidised bed combustor are operated by a power supply contractor under a separate permit.

The principle raw material is baled and loose recycled paper. Mechanical pulping takes place in stock preparation areas. Large contaminants such as wire and plastic (heavy rejects) are removed by screening systems and mechanical treatment. Finer contaminants (light rejects) are also removed and undergo mechanical treatment. Other materials used on site include but are not limited to: starch, dyes, bleachers, de-foamers, coagulants, nutrients, acids and caustic.

Large volumes of water are used in the paper-making process; backwater is re-used within the process wherever practicable. Freshwater is obtained from local water abstraction boreholes, and stored temporarily within ponds adjacent to the ETP.

The permit also includes a waste operation for the mechanical treatment of up to 78,000 tonnes per annum of pulping rejects. The outputs from the mechanical treatment are wet fibrous paper (reused on the paper machines), ferrous metals and mild steel (recycled), plastics (on-site fluidised bed combustor) and refuse derived fuel (incineration with energy recovery).

The installation operates an ISO 14001 Environmental Management System (EMS).

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 BJ7468 (EPR/BJ7468IC/A001)	Duly made 16/02/01	Application for a paper mill
Additional information	Requested 17/05/01	Response dated 12/01/02
Additional information	Requested 17/01/02	Response dated 04/02/02
Permit determined (EPR/BJ7468IC)	20/03/02	Original permit issued to Kemsley and Sittingbourne Paper Mills
Variation Application BX1039 (EPR/BJ7468IC/V002)	Duly made 30/05/03	Addition of finished product warehouse and removal of monitoring requirement for formaldehyde
Additional information	Requested 30/09/04	Response dated 25/11/04
Variation issued EPR/BJ7468IC/V002	14/07/05	
Variation Application MP3835 (EPR/BJ7468IC/V003)	Duly made 22/09/06	Addition of C and D stock preparation lines
Additional information	Requested 08/12/06	Response dated 01/02/07
Additional information	Requested 30/03/07	Response dated 18/05/07
Variation issued EPR/BJ7468IC/V003	01/11/07	
Variation Application EPR/BJ7468IC/V004	Withdrawn 22/07/11	Variation application withdrawn
Variation Application EPR/BJ7468IC/V005 (variation and consolidation)	Duly made 03/10/11	Application to vary and update the permit to modern conditions
Additional information	24/10/12	Drawing showing major emission points to air
Additional information	25/10/12	Revised site plan
Variation issued EPR/BJ7468IC/V005	05/11/12	Varied and consolidated permit issued in modern condition format (consolidated with EPR/JP3535GR and EPR/YP3635GC)
Environment Agency Variation issued EPR/BJ7468IC/V006	06/01/14	Variation to implement the changes introduced by the Industrial Emissions Directive (IED)
Variation Application EPR/BJ7468IC/V007 (variation and consolidation)	Duly made 12/11/14	Application to include a waste operation for the mechanical treatment of pulping rejects
Variation issued EPR/BJ7468IC/V007	05/12/14	Varied and consolidated permit issued

Status log of the permit		
Description	**Date**	**Comments**
Regulation 60 Notice dated 21/11/14 (Notice requiring information for statutory review of permit)	Response Received 31/03/15	Technical standards detailed in response to the information notice. Information to demonstrate that relevant BAT conclusions are met for the production of pulp, paper and board as detailed in document reference L284.
EPR/BJ7468IC/V008 (variation and consolidation) determined (Billing Ref: QP3835AS)	10/08/16	Statutory review of permit - BAT Conclusions published 30 September 2014 Varied and consolidated permit issued
EPR/BJ7468IC/V009 (variation and consolidation)	Duly made 11/11/16	Change to site boundary due to relocation of roads.
Further Information received	25/11/16	Updated site plan identifying all emissions to water
Variation issued EPR/BJ7468IC/V009 (Billing Reference: WP3936DE)	05/12/16	Varied and consolidated permit issued
Variation Application EPR/BJ7468IC/V010 (variation and consolidation)	Duly Made 07/03/18	To change the secondary aeration lagoon of the effluent treatment plant to an AD process. To increase the tonnage of mechanical treatment of pulping rejects from 55,000 to 78,000 tonnes per annum.
Response to Schedule 5 Notice for information dated 11/04/18	21/05/18	BAT Containment Assessment and AD Project - Secondary Containment Bund Assessment.
Commissioning Plan	16/07/18	Commissioning Programme- June 2018v2 (approved)
Variation issued EPR/BJ7468IC/V010 (Billing Reference: VP3633JK)	04/09/18	Varied and consolidated permit issued

Other Part A installation permits relating to this installation		
Operator	**Permit number**	**Date of issue**
E.On Kemsley CHP Limited EPR/BJ7395IG	EPR/BJ7395IG	24/04/02
K3 CHP Operations Limited EPR/JP3135DK	Full transfer of permit EPR/XP3637VX from WTI UK Ltd to K3 CHP Operations Ltd EPR/JP3135DK Waste incineration	05/08/16
WTI UK Ltd EPR/QP3236DR	EPR/QP3236DR IBA recycling facility	07/03/18

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/BJ7468IC

Issued to

DS Smith Paper Limited ("the operator")

whose registered office is

350 Euston Road
London
NW1 3AX

company registration number **00058614**

to operate a regulated facility at

Kemsley Paper Mill
Kemsley
Sittingbourne
Kent
ME10 2TD

to the extent set out in the schedules.

The notice shall take effect from 04/09/2018

Name	Date
Anne Nightingale	04/09/2018

Authorised on behalf of the Environment Agency

Schedule 1

Conditions 2.5.1, 3.6.1 and 3.6.2 are added.

Tables S1.4 and S2.4 are added.

Tables S1.1, S1.2, S1.3, S2.3, S3.1, S3.2, S3.3, S3.4, S3.5, S4.1, S4.2, and S4.3 are amended.

Definitions in Schedule 6 are added.

Schedule 7 Site Plan is amended (no change to installation boundary) .

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BJ7468IC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BJ7468IC/V010 authorising,

DS Smith Paper Limited ("the operator"),

whose registered office is

350 Euston Road
London
NW1 3AX

company registration number **00058614**

to operate part of an installation at

Kemsley Paper Mill
Kemsley
Sittingbourne
Kent
ME10 2TD

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

Name	Date
Anne Nightingale	**04/09/2018**

Authorised on behalf of the Environment Agency

Conditions

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;

(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.

1.5 Multiple operator installations

1.5.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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").

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 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.

2.3.2 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 or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , 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.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 tables S2.2 and S2.3; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 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.

2.3.6 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.

2.5 Pre-operational conditions

2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

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, S3.2 and S3.3.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Total annual emissions from the emission points set out in schedule 3 tables S3.1, S3.2 and S3.3 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.4.

3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

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 which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(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 which identifies and minimises the risks of pollution from odour;

(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 which identifies and minimises the risks of pollution from noise and vibration;

(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;

(b) annual limits specified in table S3.4;

(c) process monitoring specified in table S3.5.

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, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

3.7.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

(b) implement the fire prevention plan, from the date of approval, 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 S4.3 ; 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 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 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.

4.3.5 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.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 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 "immediately" or "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 6.1 Part A(1)(a)	Producing, in industrial plant, pulp from timber or other fibrous materials. Conversion of waste papers to pulp and the cleaning of the pulp to remove contraries, including de-inking and bleaching. Production of pulp through the progressive removal of water.	From the receipt of waste papers, virgin fibres, low grade recycled waste mixed papers to storage of wet lap and/or transfer via pipe to PM3. Waste types as specified in Table S2.2
AR2	Section 6.1 Part A(1)(b)	Producing, in industrial plant, paper and board where the plant has a production capacity of more than 20 tonnes per day. Producing packaging grade paper, plasterboard liner paper on three paper machines (PM3, PM4 and PM6) from pulp by the progressive removal of water. Producing light weight corrugated brown case material from 100 per cent recycled clean pulp by the progressive removal of water.	From receipt of raw material to storage of finished product incorporating the activities below. Receipt of raw materials and fuels through specified activities (including stock preparation, reeling and cutting, paper making operations) to despatch of finished products. Waste types as specified in Table S2.2
AR3	Section 5.4 Part A(1)(a)(i)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment. Secondary biological treatment of paper mill effluent.	From receipt of waste water from process to despatch to effluent treatment plant and discharge of effluent to controlled waters. Anaerobic digestion of waste in two tanks followed by aeration in four aeration tanks and four final sedimentation tanks. Waste types suitable for acceptance are limited to the effluent from activity

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			references AR1 and AR2 in this table and effluents detailed in permit EPR/BJ7395IG. Waste types as specified in Table S2.4 of this permit.
	Directly Associated Activity		
AR4	Treatment of water	Storage and treatment of water from Sonora Fields at the site fresh water ponds	From the treatment of water to its transfer into the process
AR5	Release to controlled waters	Discharge of uncontaminated site surface water via oil interceptor from the installation	From the points listed in Table S3.2
AR6	Emergency flare operation	D10: Incineration on land	Undertaken in relation to activity references AR3 and AR7 in this table. From the receipt of bio-gas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. Use of two auxiliary flares required during periods of breakdown or maintenance of bio-gas upgrading plant, or off-specification uprated biogas.
AR7	Gas upgrading	Upgrading of bio-gas to bio-methane (including the removal of moisture and other substances such as carbon dioxide, hydrogen sulphide and volatile organic compounds) for injection into the national grid.	Undertaken in relation to activity reference AR3 in this table. From the receipt of bio-gas produced at the on-site anaerobic digestion process to injection into the national grid. This includes return of off-specification bio-gas for combustion to the on-site emergency flares.

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR8	Gas storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Undertaken in relation to activity reference AR3 in this table. Storage of bio-gas produced from on-site anaerobic digestion of permitted waste in the roof space of digesters. From the receipt of bio-gas produced at the on-site anaerobic digestion process to despatch for use within the activity references AR6 or AR7.

Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR9	**R12:** Exchange of wastes for submission to any of the operations numbered R1 to R11**.**	Treatment operations shall be limited to: • Mechanical treatment, including shredding, magnetic sorting and screening, for the purpose of recovery. Waste types as specified in Table S2.3 of this permit.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Variation and consolidation application EPR/BJ7468IC/V005	Attachment 5 (Operating techniques) in response to question 3a in Part C3 of the variation application.	03/10/11
Variation and consolidation application EPR/BJ7468IC/V005	Clarification of point source emissions to surface water.	22/12/11
EMS PR4.4.6(31) Effluent Treatment Plant Extended Shut Down Procedure	All Parts	16/07/12
WI 1 Site Effluent Flow Management – Traffic Light System Rev 9	All Parts	25/07/16
EMS PR4.4.8 (26) Operation of Primary Effluent Treatment Plant Bypass Valve Procedure	All Parts	18/09/12
Variation and consolidation application EPR/BJ7468IC/V005	Drawing K-046-T-LD-023538 showing major emission point sources to air	24/10/12
Variation and consolidation application EPR/BJ7468IC/V005	Revised site plan	25/10/12
Variation and consolidation application EPR/BJ7468IC/V007	The response to question 3 Operating techniques, given in Part B4 of the variation application form. Includes Table 3a – Technical Standards Application Supporting Information, dated November 2014, document reference DSSmith/waste/PM1	12/11/14
Response to PO1 in Table S1.3 of EPR/BJ7468IC/V007	Acceptance of third party pulping rejects for processing	08/12/15

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to the regulation 60(1) Notice dated 21/11/14	Technical standards detailed in response to BAT conclusions 1, 2, 5, 6, 7, 8, 10, 12 to 18, 42, to 46, 52 and 53 of the notice provided under Regulation 60 of Environmental Permitting Regulations. Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for production of pulp, paper and board	31/03/15
Variation Application EPR/BJ7468IC/V010	The response to question 3 Operating techniques, given in Part B4 of the variation application form. Includes Table 3a – Technical Standards	Duly made 07/03/18
Variation EPR/BJ7468IC/V010 Response to Schedule 5 dated 11/04/18	180517 Q9 BAT Containment Assessment and AD Project - Secondary Containment Bund Assessment. Including the requirement for the retention of Lagoons 1 and 3 as part of the containment strategy.	21/05/18
Commissioning Plan	Kemsley AD Plant Commissioning Programme June 2018v2, as agreed by the Environment Agency 16/07/18	Approved 16/07/18

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall submit a report on the implementation of a formal Energy Management System. The report shall include details of the gap analysis referenced in response to BATc 6 and BATc 53. In particular the report shall identify the extent to which the following techniques are used at the installation and provide details where further application of techniques are proposed before 30 September 2018. BATc 6 f, g, h BATc 53 e, g, h, i, n	Complete
IC2	The operator shall submit for approval, a sampling programme designed to assess the composition of surface water run-off associated with RCF storage at “the marsh”. The programme shall identify sample locations, sampling frequency, and an appropriate analysis suite. Upon agreement with the Environment Agency the operator shall implement the sampling programme.	Complete
IC3	The operator shall submit the results of the sampling programme undertaken under IC2 along with further information on the practicality of implementing technique BATc 42 (b) at the Installation.	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4	Prior to changes in Heat and Power supply to Kemsley Paper Mill from the activities permitted in Environmental Permit EPR/XP3637VX the operator, in conjunction with the other operators of the Regulated Facility (Kemsley Paper Mill), shall submit a report detailing how those changes; • may impact on the emissions from and performance of the Kemsley Mill CHP facility; • may impact in meeting the provisions of the Industrial Emissions Directive and any published BAT Conclusions Documents relevant to those activities.	Complete
IC5	Following completion of commissioning of the Anaerobic Digester and Activated Sludge Lagoon the operator shall review wastes sent to the K2 incineration plant and, in conjunction with the operator of permit EPR/BJ7395IG, shall review whether further measures are necessary to ensure optimised running of the K2 incineration plant. The review shall include, but not be limited to moisture content and ratio of available permitted wastes. A summary report of the review and any measures implemented shall be submitted to the Environment Agency.	30/11/18
IC6	The operator shall review the need for further cooling measures to ensure compliance with the temperature emission limits at W1 in Table S3.2 of this permit. A summary report of the review and any measures to be implemented shall be submitted to the Environment Agency.	31/03/19

Table S1.4 Pre-operational measures	
Reference	**Pre-operational measures**
PO1	Prior to commissioning of the effluent treatment plant and gas injection processes, the operator shall develop procedures relating to activity references AR3, AR6, AR7 and AR8 in this permit. The procedures shall be incorporated into the site Environmental Management System (EMS) and made available for inspection. The revised procedures shall have regard to the Environment Agency Guidance – How to develop a management system: environmental permits and section 8.2.1 of the Environment Agency Draft Technical Guidance for Anaerobic Digestion (Reference LIT 8737, November 2013). The EMS shall include the techniques the operator relies upon to manage the operation, accidents (including flooding), closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of this permit.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
-	-

Table S2.2 Permitted waste types and quantities for paper making activity references AR1 & AR2 (Table S1.1 of this permit)	
Maximum quantity	
Waste code	**Description**
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 01	paper and cardboard packaging
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard

Table S2.3 Permitted waste types and quantities for waste operation, activity reference AR9 (Table S1.1 of this permit)	
Maximum quantity	78,000 Tonnes per year
Waste code	**Description**
03	**Waste for the paper Industry**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 10	Fibre rejects, fibre-, filler- and coating sludges from mechanical separation at Kemsley Crossing
20	**Industrial Wastes**
20 01	**separately collected fractions**
20 01 11	textiles (Paper Machine Clothing)

Table S2.4 Permitted waste types and quantities for internal transfer of waste within the installation for bulk removal from the installation	
Waste code	**Description**
20	**Industrial Wastes**
20 01	**Separately collected fractions (produced from the operations under permit EPR/BJ7395IG)**
20 01 38	Wood other than wood containing hazardous substances mentioned in 20 01 37
20	**Industrial Wastes**
20 03	**Other municipal wastes (produced from the operations under permit EPR/BJ7395IG)**
20 03 01	Mixed municipal waste.

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
Point 15 on Drawing K-046-T-LD-023538	Vacuum pump collection tank extraction	Water vapour	No limit set	--	--	--
Points 19-24 on Drawing K-046-T-LD-023538	PM3 dry end hood exhausts	Water vapour	No limit set	--	--	--
Points 45-46 on Drawing K-046-T-LD-023538	PM4 size press exhausts	Water vapour	No limit set	--	--	--
Points 51-55 on Drawing K-046-T-LD-023538	PM4 dry end hood exhausts	Water vapour	No limit set	--	--	--
Point 100a/ 100b on Drawing K-046-T-LD-023538	Top former autoslice fan	Water vapour	No limit set	--	--	--
Point 101 on Drawing K-046-T-LD-023538	Top former extraction fan	Water vapour	No limit set	--	--	--
Point 102 on Drawing K-046-T-LD-023538	Top former mist removal fan	Water vapour	No limit set	--	--	--
Point 103 on Drawing K-046-T-LD-023538	Top former fan	Water vapour	No limit set	--	--	--
Points 104-109 on Drawing K-046-T-LD-023538	PV dry end exhaust fan	Water vapour	No limit set	--	--	--
Points 110-112 on Drawing K-046-T-LD-023538	Hood exhaust fans	Water vapour	No limit set	--	--	--
Point 113 on Drawing K-046-T-LD-023538	Flash vessel exhaust	Water vapour	No limit set	--	--	--
Points 114a/114b on Drawing K-046-T-LD-023538	Blower exhausts	Water vapour	No limit set	--	--	--

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
Points 121a/121b on Drawing K-046-T-LD-023538	Blower exhausts	Water vapour	No limit set	--	--	--
Point 131 on Drawing K-046-T-LD-023538	PM3 press exhaust	Water vapour	No limit set	--	--	--
Point 135 on Drawing K-046-T-LD-023538	PM3 low/high vac blowers	Water vapour	No limit set	--	--	--
Points 136-137 on Drawing K-046-T-LD-023538	PM4 low/high vac blowers	Water vapour	No limit set	--	--	--
Point 154 on Drawing K-046-T-LD-023538	Emergency Flare 1	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	150 mg/m^3	Hourly average	Monitoring to be undertaken if the flare has been in operation for more than 10% of the year (876 Hours)	BS EN 14792
		Carbon monoxide	50 mg/m^3			BS EN 15058
		Total VOCs	10 mg/m^3			BS EN 12619:2013
Point 155 on Drawing K-046-T-LD-023538	Emergency Flare 2	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	150 mg/m^3	Hourly average	Monitoring to be undertaken if the flare has been in operation for more than 10% of the year (876 Hours)	BS EN 14792
		Carbon monoxide	50 mg/m^3			BS EN 15058
		Total VOCs	10 mg/m^3			BS EN 12619:2013
Point 156 on Drawing K-046-T-LD-023538	Bio-gas upgrade exhaust	Carbon dioxide	No limit set	--	--	--
		VOCs				
		Hydrogen sulphide				

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
Point 157 on Drawing K-046-T-LD-023538	AD biomass tank vent	Hydrogen sulphide	No limit set	--	--	--
		VOCs				

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1 on site plan in Schedule 7 of this permit	Effluent Treatment plant	Flow Rate	720 litres/sec	Instantaneous	Continuous	MCERTS self-monitoring of effluent flow scheme
		Maximum Daily Flow	40,500 m^3/day	24 hours	Daily	MCERTS self-monitoring of effluent flow scheme
		Mean Daily Flow	-	24 hours	Daily	MCERTS self-monitoring of effluent flow scheme
		pH (units)	6 (min) 9 (max)	Instantaneous	Continuous	MCERTS Approved instrumentation
		Temperature	32.2 ^oC	Hourly Average	Continuous	Standard temperature sensor
			35 ^oC	Instantaneous		
		Chemical oxygen demand (COD) or Total organic carbon (TOC) Note 1	-	24-hour flow proportional sample	Daily Note 2	COD: BS ISO 15705 TOC: BS EN 1484
		Biochemical oxygen demand (BOD_5)	40 mg/l	24-hour flow proportional sample	Weekly Note 4 (once a week)	BS EN 1899-1
		Total suspended solids (TSS)	60 mg/l	24-hour flow proportional sample	Daily Note 2	BS EN 872
			90 mg/l	Spot sample	Weekly Note 4 (once a week)	
		Total nitrogen	no limit	24-hour flow proportional sample	Weekly Notes 2,4 (once a week)	BS EN 12260
		Total phosphorus	no limit	24-hour flow	Weekly Notes 2,4	BS EN ISO 15681- 1

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
				proportional sample	(once a week)	Or BS EN ISO 15681- 2
		Metals Total and Dissolved (Zn, Cu, Cd, Pb, Ni, Hg)	-	Spot sample	twice a year	BS EN ISO 15586 BS EN ISO 17852 for Hg only
		Hazardous Pollutants screen Note 3	-	Spot sample	twice a year	GCMS analysis at UKAS accredited laboratory
W2 on site plan in Schedule 7 of this permit	Rain water run- off from warehouse roof	No parameter set	No limit set	--	--	--
W3 on site plan in Schedule 7 of this permit	Rain water run- off from the road areas located to the East of the warehouse	Oil or grease	No visible trace	--	Daily	--
W4 on site plan in Schedule 7 of this permit	Surface water run-off from road ways and installation areas outside of the RCF Plant, storage areas and outside areas of the paper machines	Oil or grease	No visible trace	--	Daily	--
W5 on site plan in Schedule 7 of this permit			No visible trace	--	Daily	--
W6 on site plan in Schedule 7 of this permit	Surface water run-off from the road and surface areas located to the North of the warehouse	Oil or grease	No visible trace	--	Daily	--
W7 on site plan in Schedule 7 of this permit			No visible trace	--	Daily	--
W8 on site plan in Schedule 7 of this permit	Surface water drains from road ways and external areas of Line C	Oil or grease	No visible trace	--	Daily	--

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
	and D building					
W9 on site plan in Schedule 7 of this permit	Surface water run-off from car park and road ways	No parameter set	No limit set	--	--	--
W10 on site plan in Schedule 7 of this permit	Uncontaminated surface water run-off post interceptor	No parameter set	No limit set	--	--	--
W11 on site plan in Schedule 7 of this permit	Uncontaminated surface water run-off post interceptor	No parameter set	No limit set	--	--	--
W12 on site plan in Schedule 7 of this permit	Uncontaminated surface water run-off post interceptor	No parameter set	No limit set	--	--	--

Note 1: 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.

Note 2: If internal rapid test methods are used, they must be cross referenced by external tests to EN or ISO standards monthly.

Note 3: Hazardous pollutants screen substances are: chlorpyriphos, cypermethrin, endosulphan (A & B), 4- nonylphenols & nonylphenol ethoxylates, PCP, TBT.

Note 4: Weekly samples should be collected by following a randomised sampling program as far as is practicable.

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
E6 on Drawing IPPC-DSSP Area Plan 2012 - clarified effluent tank	Volumetric flow rate	Landfill leachate	No limit set	Instantaneous	When transferring to the Effluent Plant	As agreed in writing with the Environment Agency
E7 on Drawing IPPC-DSSP Area Plan 2012 - clarified effluent tank	No parameter set	CHP Plant effluent	No limit set	--	--	--

Table S3.4 Annual limits		
Substance	Medium	Limit (including unit)
Chemical Oxygen Demand (COD)	Water Note 1	1.56 kg/t Note 2
Total suspended solids (TSS)	Water Note 1	0.21 kg/t Note 2
Total nitrogen	Water Note 1	0.091 kg/t Note 2
Total phosphorus	Water Note 1	0.008 kg/t Note 2

Note 1: 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.

Note 2: All annual emission limits that impose BAT AEL's for direct discharges to water apply from 01 October 2018.

Table S3.5 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Abstracted water inlet	Hazardous Pollutants screen Note 1	Twice per annum as per discharge monitoring	GCMS analysis at UKAS accredited laboratory	Spot sample
Bio-gas from Digester(s) Note 2	Flow	Continuous	In accordance with EU weights and measures Regulations	--
Bio-gas from Digester(s) Note 2	Methane	Continuous	None specified	Gas monitors shall be calibrated every 6 months or in accordance with the manufacturer's recommendations.
		Daily	None specified	--
Digester(s), conditioning tanks, sludge buffer tank, aeration tanks and storage tank(s) Note 2	Integrity checks	Weekly	Visual assessment	--
Scrubber / Carbon filtration system Note 2	Key process parameters to include pH, temperature, hydrogen sulphide and air flow	In accordance with manufacturer's recommendations	None specified	Odour abatement system shall be regularly checked and maintained to ensure appropriate temperature and moisture content. Carbon filter(s) to be replaced when saturated in accordance with manufacturer's recommendations.
Internal Circulation (IC) reactor 1 bottom sampling point Note 2	Ash content in biomass sample	Weekly	Standard ash content method or as agreed in writing with the Environment Agency	Spot sampling
Internal Circulation (IC) reactor 2 bottom sampling point Note 2				
Note 1: Hazardous pollutants screen substances are: chlorpyriphos, cypermethrin, endosulphan (A & B), 4- nonylphenols & nonylphenol ethoxylates, PCP, TBT. Note 2: Reporting of monitoring data is not required; however the results shall be made available at the request of the Environment Agency.				

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	154 & 155	In accordance with Table S3.1 of this permit	1 January In accordance with Table S3.1 of this permit
Emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July

Table S4.2 Performance parameters			
Parameter	**Frequency of assessment**	**Units**	**Units**
Water inputs to the Mill Note 1	Annually	tonnes	m^3/t
Water used in manufacturing Note 1	Annually	tonnes	m^3/t
Other inputs of water/moisture Note 1	Annually	tonnes	m^3/t
Water outputs Note 1	Annually	tonnes	m^3/t
Waste/raw material inputs Note 1	Annually	tonnes	
Waste/raw material outputs Note 1	Annually	tonnes	
Net total annual production Note 1	Annually	tonnes	
Emergency flare operation	Annually	hours	
Bio-methane exported	Annually	tonnes or m^3	
Digestate exported	Annually	tonnes	
Note 1: All to be monitored and reported in accordance with associated guidance note issued with variation EPR/BJ7468IC/V008.			

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	2018
Water	Form Water 1 or other form as agreed in writing by the Environment Agency	2018
Resource efficiency/ Performance form	Form Performance 1 or other form as agreed in writing by the Environment Agency	2018

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.

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	
Name of operator	
Location of Facility	
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 the operator

Schedule 6 - Interpretation

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

“ADQP” means Anaerobic Digestion Quality Protocol

“ADt” means Air Dried Tonnes (of pulp) expressed as 90% dryness. ADt for paper should be reported at “normal” or average moisture content for the production over the course of any one year, noted but not corrected.

“anaerobic digestion” means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methane-rich bio-gas and whole digestate.

“AOX” is adsorbable organic halides measured according to the EN ISO:9562 standard method for waste waters.

“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.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“digestate” means material resulting from an anaerobic digestion process.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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 limit.

“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.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

Metals monitoring as follows: Zn (Zinc), Cu (Copper), Cd (Cadmium), Pb (Lead), Ni (Nickel), Hg (Mercury).

Net production is as follows:
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 tonnes after the tissue machine before any rewinding processes and excluding any core.

(iv) For market pulp mills: tonnage after packing (pulp at 90 % dryness, i.e. 'air dry' - AD).

(v) For integrated pulp mills: net pulp production refers to the tonnage after packing (pulp at 90 % dryness, i.e. AD) plus the pulp transferred to the paper mill (pulp calculated at 90 % dryness, i.e. air dry). For the net paper production of the integrated mill refer to (i)

“pests” means birds, vermin and insects.

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

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system; and
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

Total nitrogen (Tot-N). Total nitrogen (Tot-N) given as N, The sum of organic nitrogen, free ammonia and ammonium (NH_4^+-N), nitrites (NO_2^- -N) and nitrates (NO_3^- -N).

Total phosphorus (Tot-P). Total phosphorus (Tot-P) given as P, includes dissolved phosphorus plus any insoluble phosphorus carried over into the effluent in the form of precipitates or within microbes.

“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.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

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.

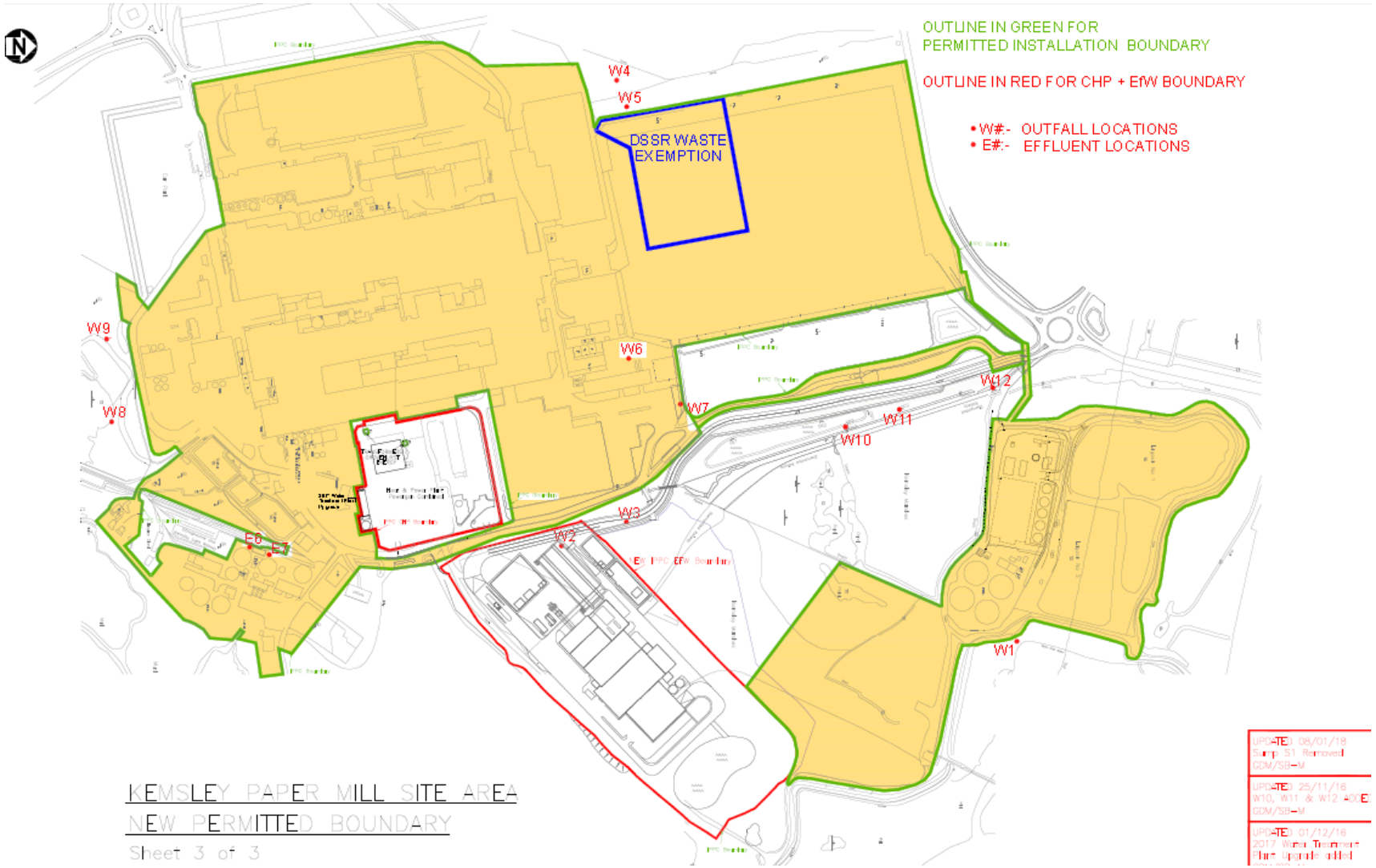
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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
- 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.

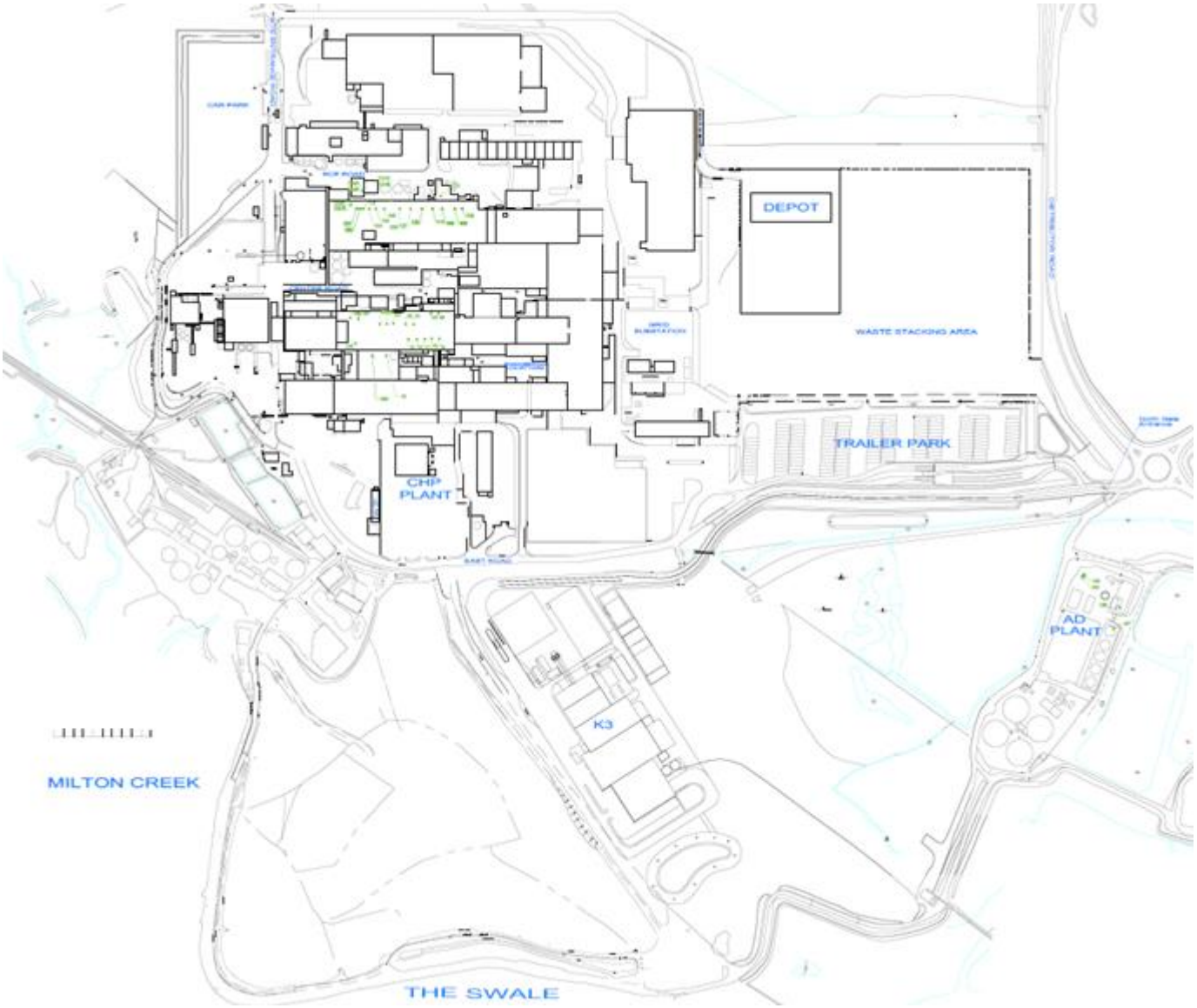
“year” means calendar year ending 31 December.

Schedule 7 – Site plan

Installation boundary



Site schematic



AD plant

154	AD Plant	Emergency Flare 2 (Biomethane)
155	AD Plant	Emergency Flare 1 (Biogas)
156	AD Plant	CO2 Exhaust
157	AD Plant	Biomass Buffer Tank

END OF PERMIT