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Wales

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

SCA Hygiene Products UK Limited

Oakenholt Paper Mill
Chester Road
Oakenholt Road
Flintshire
CH6 5PU

Permit number
EPR/BJ9681IX

Oakenholt Paper Mill

Permit number EPR/BJ9681IX

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The main purpose of the activity at the installation is to manufacture tissue paper from pulp. Two paper machines operate to provide a combined production capacity of approximately 75000 tonnes of tissue per annum (paper machine 1 has a production capacity of approximately 25000 tonnes, and paper machine 2 a production capacity of approximately 50000 tonnes).

The Mill abstracts water from its own reservoir. Most of the water supplied is reused in the process. Any excess water is then treated at the sites own two stage Effluent Treatment Plant, consisting of an aerated biological filter and a settlement tank. The Effluent Treatment Plant discharges to Lead Brook which leads direct to the Dee Estuary (designated a SSSI).

The plant is powered by two natural gas fired boilers for steam raising. These boilers form the main part of emissions to air from the site.

The Mill operates and is accredited to an ISO 14001 Environmental Management System. It also holds MCERTS certification for the flow meter for effluent leaving the plant to Lead Brook.

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

Status log of the permit		
Description	Date	Comments
Application received	Duly made 28/02/01	Application for paper mill
Additional information received	06/09/01	Response to request for information dated 25/07/01
Supplementary information received	01/03/02	
Additional information received	27/05/02	Response to request for information dated 29/04/02
Supplementary information received	29/07/02	
Permit determined BJ9681IX	30/08/02	Permit issued to North Wales Tissue Limited
Transfer application BV3715IL received	16/06/03	
Transfer application determined BV3715IL (EPR/BV3715IL/T001)	28/04/04	Permit transferred to SCA Hygiene Products UK Limited

Variation application GP3938SA (EPR/BV3715IL/V002)	15/10/04	
Variation application GP3938SA (EPR/BV3715IL/V002) withdrawn	15/06/07	
Environment Agency Paper and Pulp Sector Review 2011 (DP3230FD) Variation determined EPR/BV3715IL/V004 Permit EPR/BV3715IL	29/11/12	Varied and consolidated permit issued in modern condition format
Environment Agency led variation determined EPR/BV3715IL/V005	21/03/13	Environment Agency led variation to implement the changes introduced by IED
Natural Resources Wales led variation determined EPR/BV3715IL/V006	12/07/13	Varied and consolidated permit issued in modern condition format.
Regulation 60(1) Notice of request for information	01/12/14	
Regulation 60(1) response received	31/03/15	Implementation of BAT conclusions under IED
Variation and consolidation application received EPR/BJ9681IX/V007	Duly made 30/11/15	Application to include new PM2 dust extraction system
Supplementary information received	3/02/16	Plan showing emission and sampling points
Variation and consolidated permit EPR/BJ9681IX/V007 issued	Issued 05/02/16	Varied and consolidated permit issued to include new dust extraction system
Natural Resources Wales variation and consolidation EPR/BJ9681IX/V008	31/03/16	Natural Resources Wales variation to implement changes following the publication of the BAT conclusions for production of Pulp, Paper and Board which was published in September 2014.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/BJ9681IX

This is the consolidated permit referred to in the variation and consolidation notice for application **EPR/BJ9681IX/V008** authorising,

SCA Hygiene Products UK Limited (“the operator”),

whose registered office is


**Southfields Road
Dunstable
Bedfordshire
LU6 3EJ.**

company registration number **03226403**

to operate an installation at

**Oakenholt Paper Mill
Chester Road
Oakenholt
Flintshire
CH6 5PU**

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

Name	Date
	31/03/2016

Eirian Macdonald

Authorised on behalf of Natural Resources Wales

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; 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 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 Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil to the protocol agreed in writing with Natural Resource Wales under Improvement Condition no. 8, 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1, S3.2.
- 3.3.2 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.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 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 Natural Resources Wales.

3.4 Odour

- 3.4.1 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 Natural Resources Wales, 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.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Noise and vibration

- 3.5.1 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 Natural Resources Wales, 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.
- 3.5.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 annual production /treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 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 Natural Resources Wales, 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 Natural Resources Wales, 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.

4.3 Notifications

- 4.3.1 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event 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 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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", 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
A1	S6.1 A1 (b)	Producing in industrial plant, paper and board where the plant has a production capacity of more than 20 tonnes per day.	From wood pulp storage and other raw materials, to storage and despatch of the paper, including reprocessing of waste paper.
A2	S5.4 A1 (a) (i)	Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment.	Effluent from paper mill and on-site power generation facility only.
Directly Associated Activity			
A3	Steam generation	Two gas fired boilers with aggregated thermal input of 23.1 MWth.	Steam production within the boundary of the installation.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.3 given in section 2.3 of the application	28/02/01
Response to Schedule 4 Part 1 Notice	Response to questions 4 & 9	06/09/01
Supplementary Information	Section 2.3 pages 11 – 18	01/03/02
Supplementary Information	Section 2.3.8 (on pages 3 – 5 and drawing IPPC 2.3-3)	29/07/02
Information received in support of Natural Resources Wales's Paper, Pulp and Board Sector Review 2015	All parts of operator response to Regulation 60(1) notice	31/03/15
PM2 Dust extraction summary – noise	The response to question 3 in Part C3 of the application	30/11/15
PM2 Dust extraction summary - particulates	The response to question 3 in Part C3 of the application	30/11/15
Noise Management Plan	The response to question 4 (monitoring) in Part C3 of the application	30/11/15

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	The Operator shall submit a written report for the subsequent approval of Natural Resources Wales that summarises a review of the provision of MCERTS accreditation for the monitoring equipment, personnel and organisations employed for the emissions monitoring programme in condition 3.5.1. The report shall also propose a timetable for achieving this standard for any elements that are not MCERTS certified.	Completed
2	The Operator shall submit a written report detailing a review of the current monitoring methods for discharges to surface water. The review shall consider both in-house and external monitoring against the standards set out in Environment Agency technical guidance note „M18 – Monitoring of Discharges to Water and Sewer“, and identify where these standards are met, justify deviations or submit proposals for improvements. The report shall propose a timetable for completion of improvements for any elements that are not MCERTS certified. Once approved by Natural Resources Wales any improvements identified by the review will be implemented to the agreed timescale.	Completed
3	The operator shall submit a summary report following a review of the design and operation of the effluent plant. The review shall assess the suitability of the ETP plant for the current effluent loading and shall identify improvements to the current operation with timescales for implementation.	Completed
4	The operator shall submit an updated BAT assessment for options for disposal of effluent plant sludge.	Completed
5	The operator shall provide a report detailing improvements to the performance of the effluent treatment process to achieve a reduction in the BOD of the effluent at emission point W1 to below 25 mg/l. The timescales for the identified improvements to be implemented shall be agreed with Natural Resources Wales and the improvements shall be implemented within the agreed timescales.	Completed
6	The operator shall complete a noise survey on the new PM2 dust extraction system once it has been installed, to compare actual results with modelled results included in the application and submit it to NRW	01/09/2016

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
7	<p>If storing Priority Hazardous Substances on site, the Operator must carry out the following assessments with reference to the Environment Agency's guidance "<i>How to carry out a risk assessment if you're applying for a bespoke permit that includes discharging hazardous pollutants to surface water</i>",</p> <ul style="list-style-type: none"> Phase 1 Part A screening tests for mercury, cadmium, nickel, lead, benzene, polyaromatic hydrocarbons and any other relevant substances. Phase 1 Part B screening tests for mercury, cadmium, polyaromatic hydrocarbons and any other relevant priority hazardous substances. For any substance which is not screened out by the Phase 1 Part A or Part B screening tests the Operator will also need to carry out Phase 2 modelling, as described in "<i>How to carry out a risk assessment if you're applying for a bespoke permit that includes discharging hazardous pollutants to surface water</i>". <p>The Operator must provide Natural Resources Wales with the results of the emissions monitoring, the results from the screening tests and the results from any Phase 2 modelling. The Operator may use the Environment Agency's H1 electronic screening tool to present the emissions data and to carry out the Phase 1 screening tests.</p> <p>Note: With regard to the Phase 1 Part A screening - a full list of relevant substances is provided in the Environment Agency guidance "<i>How to carry out a risk assessment if you're applying for a bespoke permit that includes discharging hazardous pollutants to surface water</i>" under the section entitled "<i>Screening test: priority hazardous pollutants</i>". The Operator must review the list and carry out the screening for any substances, in addition to those specified in the notice, that may be present in the installations discharges to surface water. With regard to the Phase 1 Part B screening for priority hazardous pollutants, the section entitled "<i>Screening test: priority hazardous pollutants</i>" provides a full list of relevant priority hazardous substances and their associated annual significant loads.</p>	30 September 2016
8	<p>The Operator shall submit the written protocol referenced in condition 3.1.3 for the monitoring of soil and groundwater for approval by Natural Resources Wales. The protocol shall demonstrate how the Operator will meet the requirements of Articles 14(1) (b), 14(1) (e) and 16(2) of the IED.</p> <p>The procedure shall be implemented in accordance with the written approval from Natural Resources Wales.</p>	30 September 2016
9	<p>The Operator shall submit a report on the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED. The report shall contain information, supplementary to that already provided in the application Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED.</p>	30 September 2016

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
10	The operator shall submit, for approval by Natural Resources Wales, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 30 September 2018. The report shall include, but not be limited to, the following: <ol style="list-style-type: none">1) Methodology for achieving BAT.2) Associated targets / timelines for reaching compliance by 30 September 20183) Any alterations to the initial plan	30 September 2016 and 30 September 2017
11	The Operator shall submit a written report detailing the way in which bimonthly monitoring of adsorbable organically bound halogens (AOX) in the effluent discharged through emission point W1 will be carried out, in order to demonstrate compliance with BATc 50.	30 September 2016
12	The operator shall submit, for approval by Natural Resources Wales, a report detailing how compliance with the limits for ammoniacal nitrogen and total nitrogen will be assessed to account for the variability in the raw water concentrations.	30 September 2016

Schedule 2 - Waste types, raw materials and fuels

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

Schedule 3 (a) – Emissions and monitoring

Emissions until 29/09/2018

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 point 1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boilers house	250 mg/m ³	Hourly average	Annually	BS EN 14792
A2 point 4 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Hoods exhaust,	No limit set			
A4 point 3 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Vacuum exhaust, ,	No limit set			
A5 point 11 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Hoods exhaust (direct),	No limit set			
A9 point 12 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Dust Removal System	No limit set			
A7 point 10 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Vacuum exhaust	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
A8 point 5 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 dust removal exhaust,	No limit set			
A3 point 2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Wet End Dust Removal	No limit set			
A6 point 6 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A6 point 7 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A6 point 8 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A6 point 9 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A11 position 13 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Dust Extraction system	No limit set			

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 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	BOD	Effluent Treatment Plant	50 mg/l	24-hour flow proportional sample	Weekly	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	COD	Effluent Treatment Plant	No limit set	24-hour flow proportional composite sample	Daily	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Suspended solids	Effluent Treatment Plant	50 mg/l	24-hour flow proportional composite sample	Daily	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Temperature	Effluent Treatment Plant	25°C	Instantaneous	Continuous	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Flow	Effluent Treatment Plant	Maximum instantaneous flow 108 m ³ /hour	Instantaneous	Continuous	MCERTS self monitoring of effluent flow scheme
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	pH	Effluent Treatment Plant	5-9	Instantaneous	Continuous	MCERTS approved instrumentation
W1 as shown on plan reference: IPPC 2.3-3 Rev a	Ammonia as N	Effluent Treatment Plant	16mg/l	24-hour flow proportional sample	Weekly (once a week)	BS EN ISO 11732 or

21/02/15. Received on 3 February 2016						ISBN 0117516139
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Nutrients N and P	Effluent treatment plant	N – no limits set P - no limit set	24-hour flow proportional composite sample	Weekly	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Metals Zn, As, Cu, Cr, Ni, Pb.	Effluent treatment plant	No limits set	24-hour flow proportional composite sample	Quarterly	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Priority Hazardous Pollutants screen	Effluent treatment plant	-	24-hour flow proportional sample	Annually	GCMS analysis at UKAS accredited laboratory
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Suspended solids	Site drainage including sand filter wash water	100 mg/l	Spot sample	Monthly	In accordance with TGN M18
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	PH	Site drainage including sand filter wash water	5-9	Spot sample	Weekly	In accordance with TGN M18, MCERTS approved instrumentatio n if available
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Hydrocarbon Oil	Site drainage including sand filter wash water	15 mg/l	Spot sample	Monthly	In accordance with TGN M18
W3 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Site surface water drainage	No limit set			

Schedule 3 (b)– Emissions and monitoring

Emissions from 30/09/2018

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 point 1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boilers house	250 mg/m ³	Hourly average	Annually	BS EN 14792
A2 point 4 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Hoods exhaust,	No limit set			
A4 point 3 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Vacuum exhaust, ,	No limit set			
A5 point 11 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Hoods exhaust (direct),	No limit set			
A9 point 12 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Dust Removal System	No limit set			
A7 point 10 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM2 Vacuum exhaust	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
A8 point 5 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 dust removal exhaust,	No parameters set			
A3 point 2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	PM1 Wet End Dust Removal	No parameters set			
A6 point 6 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No parameters set			
A6 point 7 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A6 point 8 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A6 point 9 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Wet End Extractor Fan	No limit set			
A11 (point 13 on drawing IPPC 2.3-3)	No parameters set	PM2 Dust Extraction system	No limit set			

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 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Biological Oxygen Demand (BOD)	On-site effluent treatment plant	50mg/l (note 1)	24-hour flow proportional composite sample	Weekly	MCERTS - Performance Standards and Test Procedures for Continuous Water Monitoring Equipment
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Chemical Oxygen Demand (COD)	On-site effluent treatment plant	No limit set	24-hour flow proportional composite sample	Daily	MCERTS - Performance Standards and Test Procedures for Continuous Water Monitoring Equipment
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Suspended solids	On-site effluent treatment plant	50 mg/l	24-hour flow proportional composite sample	Daily	In accordance with TGN M18
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Temperature	Effluent Treatment Plant	25°C	Instantaneous	Continuous	Standard temperature sensor
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Flow	Effluent Treatment Plant	2200 m ³ /day. Maximum instantaneous flow 108 m ³ /hour	Instantaneous	Continuous	MCERTS self monitoring of effluent flow scheme
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	pH	Effluent Treatment Plant	5-9	Instantaneous	Continuous	MCERTS approved instrumentation
W1 as shown on plan reference: IPPC	Ammonia as N	Effluent Treatment Plant	16mg/l	24-hour flow proportional sample	Weekly	BS EN ISO 11732

2.3-3 Rev a 21/02/15. Received on 3 February 2016					(once a week)	or ISBN 0117516139
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Total nitrogen	On-site effluent treatment plant	No limit set	24-hour flow proportional composite sample	Weekly	MCERTS - Performance Standards and Test Procedures for Continuous Water Monitoring Equipment
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Total phosphorous	On-site effluent treatment plant	No limit set	24-hour flow proportional composite sample	Weekly	MCERTS - Performance Standards and Test Procedures for Continuous Water Monitoring Equipment
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Metals Zn, As, Cu, Cr, Ni, Pb.	Effluent treatment plant	No limits set	24-hour flow proportional composite sample	Quarterly	BS EN ISO 15586:2003
W1 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Priority Hazardous Pollutants screen	Effluent treatment plant	-	24-hour flow proportional sample	Annually	GCMS analysis at UKAS accredited laboratory
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Suspended solids	Site drainage including sand filter wash water	100 mg/l	Spot sample	Monthly	BS EN 872:2005
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	PH	Site drainage including sand filter wash water	5-9	Spot sample	Weekly	MCERTS approved instrumentatio n
W2 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	Hydrocarbon Oil	Site drainage including sand filter wash water	15 mg/l	Spot sample	Monthly	In accordance with TGN M18
W3 as shown on plan reference: IPPC 2.3-3 Rev a 21/02/15. Received on 3 February 2016	No parameters set	Site surface water drainage	No limit set			

Note: Reduce limits for BOD on agreement with operator

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
Chemical Oxygen Demand (COD)	Water	1.5 kg/t
Total suspended solids (TSS)	Water	0.35 Kg/t
Total nitrogen	Water	0.15 kg/t
Total phosphorus	Water	0.012 kg/t
Adsorbable organically bound halogens (AOX)	Water	0.05 kg/t

Schedule 4 (a) – Reporting

Reporting until 29/09/2018

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 3.3.1	A1, A2 and A5	Every 12 months	1 January
Emissions to Water Parameters as required by condition 3.5.1.	W1 and W2	Every 3 months for monitoring frequency up to quarterly (using form water 1). Every 12 months for annual monitoring (using form water 2).	1 January

Table S4.2 Performance parameters

Parameter ⁽¹⁾		Units
NOx	Annually	Tonnes
CO2	Annually	Tonnes
BOD	Annually	Kg/T
Suspended Solids	Annually	Kg/T
Total Nitrogen	Annually	Kg/T
Total Phosphorus	Annually	Kg/T

(1) 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
Water and Land	Form water 1 and water 2 or other form as agreed in writing by Natural Resources Wales	
Resource Efficiency	Form performance 1 or other form as agreed in writing by Natural Resources Wales	

Schedule 4 (b) – Reporting

Reporting from 30/09/2018

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 3.3.1	A1, A2 and A5	Every 12 months	1 January
Emissions to Water Parameters as required by condition 3.3.1.	W1 and W2	Every 3 months for monitoring frequency up to quarterly (using form water 1). Every 12 months for annual monitoring (using form water 2).	1 January

Table S4.2 Performance parameters

Parameter ⁽¹⁾		Units
NO _x	Annual	Tonnes
CO ₂	Annual	Tonnes
BOD	Annual	Kg/T
Suspended Solids	Annual	Kg/T
Total Nitrogen	Annual	Kg/T
Total Phosphorus	Annual	Kg/T
Water input to installation	Annual	Tonnes
Water Discharged from installation	Annual	Tonnes

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

Table S4.3 Reporting forms

Media/parameter	Reporting format
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales
Resource Efficiency	Form performance 1 or other form as agreed in writing by Natural Resources Wales

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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
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 permit condition	
To be notified immediately	
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) In the event 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:

To be notified immediately	
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.

“*Annex I*” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*Annex II*” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*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 Natural Resources Wales 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.

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

“*disposal*” means any of the operations provided for in Annex IIA to Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on Waste.

“*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.

“*General WFD/DS*” means: aldrin, dieldrin, endrin, atrazine, endosulfan, hexachlorobenzene, simazine, trifluralin, azinphos methyl, fenitrothion, dichlorovos, cypermethrin, TBT and chlorpyrifos.

“*hazardous property*” has the meaning given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

“*hazardous waste*” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“*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.

Pests means *Birds, Vermin and Insects*.

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

“*TGN M2*” means Environment Agency Technical Guidance Note (Monitoring) M2 – Monitoring of stack emissions to air.

“*TGN M18*” means *Environment Agency Technical Guidance Note (Monitoring) M18 - Monitoring of discharges to water and sewer*.

“*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.

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

“Water Framework Directive Priority Hazardous Substances and other plant protection substances are: Anthracene, Brominated diphenyl ether, Cadmium, C10-13 Chloroalkanes, Endosulphan, Hexachlorobenzene, Hexachlorobutadiene, Hexachloro-cyclohexane, Mercury and its compounds, Nonylphenol (4-Nonylphenol), Pentachlorobenzene, Polycyclic aromatic Hydrocarbons (PAHs), Tributyltin compounds (Tributyltin-cation).

“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.

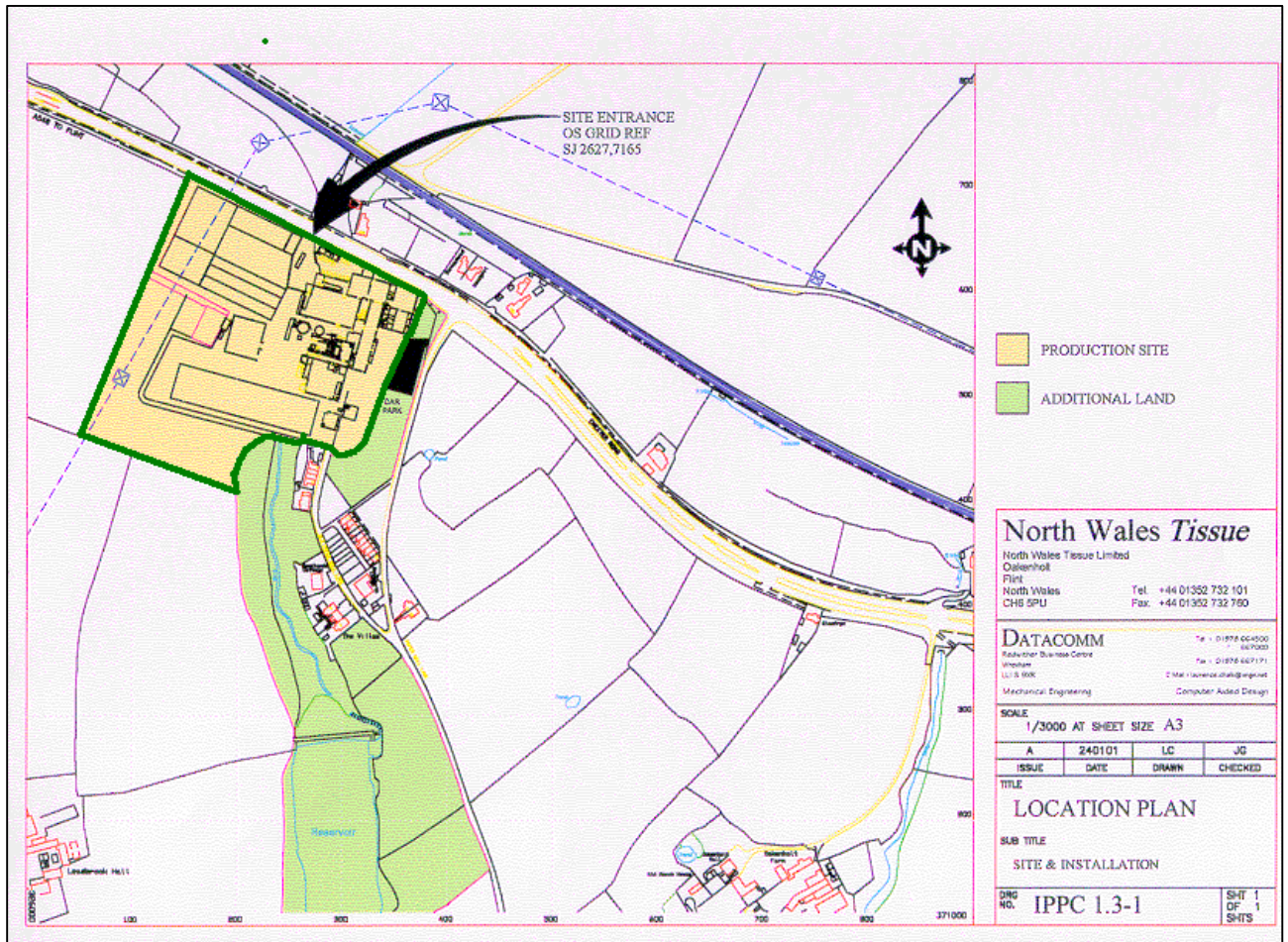
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

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

Calculation for the conversion of mg/litre to kg/t can be found in Annex 1 of the BREF notes

Schedule 7 - Site plan



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END OF PERMIT