



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

PB Gelatins UK Limited

PB Gelatins
Unit A6 Severn Road
Treforest Industrial Estate
Pontypridd
Rhondda Cynon Taff
CF37 5SQ

Permit number
EPR/DP3030ZC

PB Gelatins

Permit number EPR/DP3030ZC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

PB Gelatins is located at Unit 6 (offices) within the Treforest Industrial Estate to the south east of Pontypridd at approximate grid reference ST 10190 86860. The industrial estate sits in the Rhondda Valley and runs in parallel to the River Taff and the A470. The closest residential area is Church Village, located approximately 0.7km to the west. The installation is operated by PB Gelatins UK Limited.

The purpose of the installation is to extract gelatin from oessin (bones). The process of extraction is firstly liming the oessin (Unit A18) to raise the alkalinity and condition the collagen for ultimate extraction. Hydrogen peroxide is added to control microbiological growth and sodium hypochlorite to sanitise the process vessels. This process takes approximately 50 to 65 days. Waste Materials from the Liming Plant include lime sludge, ossein solids and wastewater.

Following liming, the oessin is freed completely of lime by washing in rotary drum washers and cone washers. Phosphoric acid is added to this process to reduce the pH to between 5.5 and 6.5. Once complete the oessin is transported to the extraction vessels (Unit 21) for extraction.

Extraction of gelatin involves a semi continuous process of dissolving it in hot water while the oessin passes through a series of tanks, transferred to storage tanks and filtered.

Final extraction residue is boiled by direct steam injection into the extraction tank in order to dissolve any remaining gelatin from the residue. This is recovered via a clarification process and by dissolved air flotation of the resultant solution.

Gelatin is passed through an ion exchange process before being sent to evaporators. After this process the concentrated gelatin is pumped to the sterilisation, chilling and drying part of the process.

At the end of the dryer, the gelatin is ground by a rotary milling machine. It is pneumatically transported to a bagging plant where the gelatin batches are filled into 800kg bags. Automatic sampling is performed during this stage and samples are also transferred to the quality control laboratory in Unit 6 and analysed for its physico-chemical and bacteriological properties.

Approximately 2,000m³ per day of water is abstracted from the River Taff (Abstraction Licence 21/57/25/0063) via a pump house 0.7km to the North of the main plant. This water is pumped underground to the water works plant at the installation.

Approximately 1,600m³ per day of effluent is generated by the processes. Effluent is collected by a series of drains in all areas of the plant and transferred to an effluent pumping station adjacent to the Liming Process. From the collection sump the effluent is screened to a balance tank. Particles of ossein waste screened out at this stage are collected in a skip and are disposed of via a rendering plant.

The effluent collected in the balance tank is pumped to a Dissolved Air Flotation (DAF) unit where the pH is neutralised by the addition of sulphuric acid. An organic flocculent and a polymer coagulant are added to bind <0.7mm particles in the effluent together which are separated from the aqueous phase as a sludge by addition of air bubbles to the DAF unit. This sludge is pumped into a collection tank which is periodically emptied and transported by tanker for disposal to agriculture or waste disposal plant.

The aqueous phase from the DAF unit overflows into the effluent drain which runs into the Welsh Water Dŵr Cymru (WWDC) sewer (WWDC consent number TE 372) which transports the effluent to the WWDC Cardiff Bay Treatment Plant before discharge into the environment.

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 EPR/DP3030ZC/A0001	Duly made 18/07/13	Application for a gelatine processing installation.
Request for further information Schedule 5 Notice dated 04/10/13	Received 04/03/14	
Additional information received	17/07/14	Confirmation of site boundary.
Permit determined	10/10/14	Permit issued to PB Gelatins UK Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/DP3030ZC

The Natural Resources Body for Wales ("Natural Resources Wales") authorises,
under regulation 13 of the Environmental Permitting (England and Wales)
Regulations 2010


PB Gelatins UK Limited ("the operator"),
whose registered office is

PB Gelatins UK Limited
Unit A6 Severn Road
Treforest Industrial Estate
Pontypridd
Rhondda Cynon Taff
CF37 5SQ

company registration number **01477674**
to operate an installation at

PB Gelatins
Unit A6 Severn Road
Treforest Industrial Estate
Pontypridd
Rhondda Cynon Taff
CF37 5SQ

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

Name	Date
	10/10/2014

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 and excluding the land shown edged in red.

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.

2.4 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, S3.2 and S3.3.
- 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, 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 and S3.3.
- 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.

3.4 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; and
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, submit to Natural Resources Wales 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 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 S4.1; and
 - (c) 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 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 Natural Resources Wales shall be notified without delay following the detection of:
- (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 (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 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 “without delay”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
S6.8 Part A1 (c)	Disposing of or recycling animal carcasses or animal waste, at a plant with a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.	From receipt of Ossein and other raw materials to the extraction and storage of gelatine.
S5.4 A (1) (a) (ii)	Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment.	From collection of process effluent to discharge to sewer, including the Dissolved Air Flotation (DAF) plant.
Directly Associated Activity		
Storage of waste	Storage and handling of by-products and wastes generated by the process	From receipt of by-products and wastes from the process to dispatch from site.
Finished product storage	Storage of finished products	From receipt of finished products to despatch of products.
Raw materials storage	Raw materials storage and handling	From receipt of raw materials to transfer to the manufacturing process
Chemical storage	Chemical storage and handling	From receipt of materials to their use on-site or disposal off-site.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	Section 3 of part B3 of the application form	16/04/13
Additional Information received	Response to application form B3	19/06/13
Additional Information received	Response to application form B3	18/07/13
Additional Information received	BAT Assessment – Waste Water Treatment	24/02/14
Additional Information received	BAT Assessment – Gelatin Extraction Process from Ossein	24/02/14
Additional information	Updated site plan	17/07/14

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	The Operator shall submit a written report to Natural Resources Wales detailing the site procedure for managing the environmental risks associated with all storage areas on site. The procedure should include, as a minimum, details of all substances stored on site, the maximum capacity of each storage vessel (including skips) or area and how this has been calculated along with monitoring methods and recording systems for measuring the amounts stored at each location. The report shall also include proposals of a timetabled plan on how this procedure will be implemented on the site including training of relevant personnel. The procedure and implementation plan shall be progressed following agreement in writing by Natural Resources Wales.	Report to be submitted by 30 November 2014 Implemented by 31 December 2014
2	The Operator shall submit a detailed written Odour Management Plan (OMP) to Natural Resources Wales for agreement. The plan should be in line with the requirements of the Environment Agency's H4 guidance document (https://www.gov.uk/government/collections/horizontal-guidance-environmental-permitting) and the 'How to Comply' document (https://www.gov.uk/government/publications/how-to-comply-with-your-environmental-permit). The OMP, as agreed with Natural Resources Wales shall be implemented by the Operator in line with written agreement from Natural Resources Wales.	OMP submitted by 31 October 2014 Implemented by 31 December 2014.
3	The Operator shall submit a written Preventative Maintenance procedure to Natural Resources Wales for agreement. The procedure should include, as a minimum, details on preventative maintenance techniques and inspection frequency for all storage vessels, production vessels, refrigeration system and the entire on-site effluent drainage system and treatment plant. The procedure should also detail all tanks on site that are subject to certification and how the Operator plans to manage this requirement. The Preventative Maintenance procedure shall be implemented by the Operator in line with written agreement from Natural Resources Wales.	Submit by 31 December 2014 Implement by 01 March 2014.
4	The operator shall move the pipework for tanks BC08 and BC10 inside the bund.	31 December 2014
5	The operator shall put in place tertiary bunding and Aco drains in the area around BC08, BC10, BC06 and BC07.	30 December 2015
6	The operator shall put in place impermeable hardstanding and bunded surface area around the Sulphuric Acid delivery point for the DAF plant.	31 March 2015
7	The operator shall install and operate an additional filter to remove Mercaptans. This to be carried out in accordance with the proposals in the document "BAT Assessment – Waste Water Treatment" dated 17/02/14..	31 December 2014
8	The operator shall submit to Natural Resources Wales a written report detailing the feasibility of installing and operating additional effluent discharge treatment to remove COD and solids.	Submit report by 31 December 2014 Commence work (if necessary) by 31 March 2015
9	The operator shall submit to Natural Resources Wales a written report detailing the outcome of a review of the size of the balancing tank in line with the BAT requirement for balancing tank retention time. Should the tank need to be enlarged or replaced, the operator shall implement the enlargement or replacement of the tank.	Submit report by 31 November 2014 Implement work (if necessary) by 31 March 2015

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
10	The operator shall submit to Natural Resources Wales a written report detailing contingency measures to prevent accidental discharges from overloading or damaging the treatment plant. Should any infrastructure improvements be required, the operator will implement these works.	Submit report by 31 December 2014 Implement work (if necessary) by 31 March 2015
11	The Operator shall submit to Natural Resources Wales a monitoring plan for routine visual and analytical checks to minimise the environmental impact of the site. The plan should include as a minimum, monitoring of the effluent discharge drainage and discharge, and recording of the refrigerant levels within the refrigeration systems on site. This monitoring plan shall be implemented by the Operator in line with written agreement from Natural Resources Wales	30 October 2014
12	The Operator shall submit a report to Natural Resources Wales detailing a review of all the tank storage and associated bunding and drainage on site and assess against the requirements of "Containment systems for the prevention of pollution" CIRIA C736 published in 2014. Where differences are identified the Operator shall include within the report a timetabled plan for upgrading the tank storage areas on site. The plan shall be implemented by the Operator in line with written approval from Natural Resources Wales.	30 November 2014
13	The Operator shall submit a written report to Natural Resources Wales detailing an investigation into the feasibility of developing an enclosed system for the transfer of sludge to tanker. The system should be designed in such a way as to minimise the odour impact of this process, including the control of all odourous air. The report should contain the outcome of the investigation with justification and where applicable a timetabled plan for upgrading the current sludge transfer system. As a minimum the Operator should demonstrate how (with modification if necessary) the odour impact of this operation will be minimised as far as possible.	30 November 2014
14	The Operator shall implement a programme of colour coding of drains throughout the site so that all personnel are able to distinguish between foul water drains to sewer, effluent drains to processing, or surface run off drains to river. A written report shall be sent to Natural Resources Wales detailing the colour coding used and the date on which this was implemented on site (including staff training sessions)	31 December 2014

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
Ossein	Ossein in animal bone only

Schedule 3 – Emissions and monitoring

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

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
EP4 Extraction tank 1 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP5 Extraction tank 2 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP6 Extraction tank 3 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP7 Extraction tank 4 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP8 Extraction tank 5 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP9 Extraction tank 6 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP10 Extraction tank 7 exhaust as shown in Appendix 17 of the application	-	Extraction tank	-	-	-	-
EP11 Drier 1 exhaust as shown in Appendix 17 of the application	-	Drier	-	-	-	-
EP12 Drier 2 exhaust as shown in Appendix 17 of the application	-	Drier	-	-	-	-
EP13 Kathabar 1 regenerator exhaust as shown in Appendix 17 of the application	-		-	-	-	-

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
EP14 Kathabar 2 regenerator exhaust as shown in Appendix 17 of the application	-		-	-	-	-
EP15 Vacuum pump exhaust as shown in Appendix 17 of the application	-		-	-	-	-
EP16 Vacuum pump exhaust as shown in Appendix 17 of the application	-		-	-	-	-
EP17 Dust extraction exhaust as shown in Appendix 17 of the application	-		-	-	-	-

Table S3.2 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
EFFLUENT PUMPING STATION, as shown on the plan at Schedule 7 of this permit DP1	-	-	-	-	-	-

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
DP1	pH	continuous		
DP1	Suspended Solids	Weekly		
DP1	COD	Weekly		
DP1	Discharge Flow	Continuous		
Site perimeter	Odour	daily		

Schedule 4 - Reporting

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

Table S4.1: Annual production/treatment

Parameter	Frequency of assessment	Units
Gelatin	Annually	tonnes

Table S4.2 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Effluent Sludge	Annually	tonnes
Effluent Solids	Annually	tonnes
Effluent liquid discharged	Annually	tonnes
Ossin sludge waste	Annually	tonnes
Solid bone waste	Annually	tonnes

Table S4.3 Reporting forms

Media/parameter	Reporting format	Date of form
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY

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.

“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.

“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 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.

“year” means calendar year ending 31 December.

“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.

“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.

“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.

“Industrial Emissions Directive” means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions

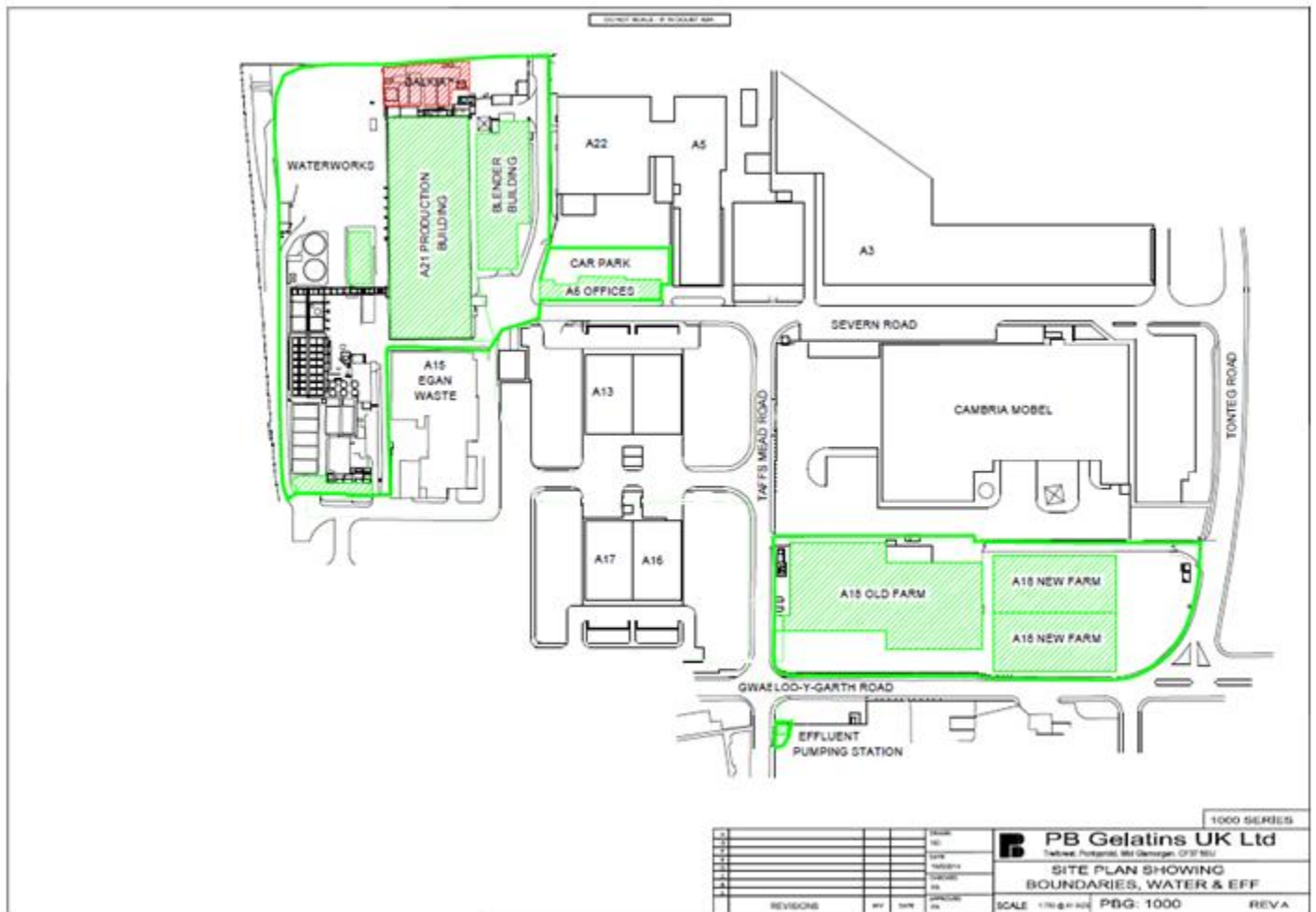
“Pests” means Birds, Vermin and Insects.

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

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

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

Schedule 7 - Site plan



Note: the installation also includes the effluent pipelines that link different parts of the site as shown on drawing "APPENDIX_2_DRAINAGE_PLAN" Dated 21/12/2011, as submitted with the permit application.

END OF PERMIT