



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

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2010

---

GP Biotec Ltd

Great Porthamel AD Plant  
Talgarth  
Brecon  
Powys  
LD3 0DL

Permit number  
EPR/AB3233DW

# Great Porthamel AD Plant

## Permit number EPR/AB3233DW

### Introductory note

**This introductory note does not form a part of the permit**

The main features of the permit are as follows.

This permit allows the operator to carry out anaerobic digestion of wastes and the combustion of the resultant biogas. Permitted wastes are non-hazardous biodegradable wastes including those controlled by the Animal-By-Products Regulations (ABPR) and the site also grows its own energy crops. Hazardous wastes are not permitted. The total permitted annual throughput is 55,000 tonnes a year.

Renewable energy will be generated using the resultant biogas through two combined heat and power engines (CHP) with the liquid and solid intended for recovery to agricultural land as a biofertiliser.

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<br>EPR/AB3233DW/A001                                   | Duly made<br>04/07/11               | Application for an Anaerobic Digestion facility   |
| Additional information received   | 26/10/11,<br>11/11/11 &<br>15/12/11 | Schedule 5 Responses & revised OMP  |
| Permit determined   | 12/03/12                            | Permit issued to GP Biotech Ltd   |
| Natural Resources Wales initiated variation started<br>EPR/AB3233DW/V002    | 08/07/13                            | Variation to amend infrastructure requirements.   |
| Variation determined<br>EPR/AB3233DW  | 25/07/13                            | Regulator led variation issued.   |
| Variation Application<br>EPR/AB3233DW/V003<br>(Variation and Consolidation) | Duly Made<br>26/09/14               | Variation and consolidation to include a listed activity following the implementation of the Industrial Emissions Directive |
| Variation Application<br>EPR/AB3233DW/V003<br>determined                    | 06/07/15                            | Varied and consolidated permit issued in modern condition format.   |
| Variation Application<br>PAN-000069   | Duly made<br>16/11/15               | Variation and consolidation to increase the amount of animal waste that can be accepted to site.                            |

**Status log of the permit**

| Description  | Date     | Comments                                  |
|--|----------|---|
| Variation Application<br>determined PAN-000069<br>EPR/AB3233DW | 12/02/16 | Varied and consolidated permit<br>issued. |

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number  
**EPR/AB3233DW**

This is the consolidated permit referred to in the variation and consolidation notice for application PAN-000069 authorising,


**GP Biotec Ltd** (“the operator”),  
whose registered office is

**Great Porthamel  
Talgarth  
Brecon  
Powys  
LD3 0DL**

company registration number **06512575**  
to operate an installation at

**Great Porthamel AD Plant  
Talgarth  
Brecon  
Powys  
LD3 0DL**

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

| Name  | Date                    |
|---|-------------------------|
|  | <b>12 February 2016</b> |

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.
- 1.1.4 The operator shall comply with the requirements of an approved competence.

### 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”).
- 2.1.2 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
  - (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 Waste shall only be accepted if:
  - (a) it is of a type and quantity listed in schedule 2 table S2.1; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

## **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.
- 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.
- 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 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.

### **3.5 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.

### **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, hazard or annoyance 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.

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 S4.2 ; 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.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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.

### 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 (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.

## **4.4 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 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                 | S5.4A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities:<br>Biological Treatment | <p>Anaerobic Digestion (with a capacity exceeding 100 tonnes per day) of permitted waste.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it was produced)</p> <p>D9: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcinations etc)</p> | <p>All storage tanks and chambers will be sealed.</p> <p>The digester tanks shall be located on an impermeable surface with sealed drainage with an engineered bund with the capacity to contain 110% of the digester tanks volume in case of spillage. The containment area shall be regularly inspected.</p> <p>Foul water will be discharged via a sealed drainage system to a holding tank and used in the digestion process.</p> <p>Anaerobic Digestion of wastes including pasteurisation and chemical addition.</p> <p>Wastes as specified in table S2.1</p> <p>Pre-treatment of waste including shredding, sorting, compaction, bailing, mixing and maceration</p> |

**Table S1.1 activities**

| <b>Activity reference</b> | <b>Activity listed in Schedule 1 of the EP Regulations</b> | <b>Description of specified activity and WFD Annex I and II operations</b> | <b>Limits of specified activity and waste types</b>  |
|---------------------------|--|--|--|
|                           |  |  | Gas cleaning by biological or chemical scrubbing and upgrading to biomethane.  |
|                           |  |  | Gas storage and drying.  |
|                           |  |  | Treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying.   |
|                           |  |  | The maximum throughput of animal waste shall be 30 tonnes per day.   |
|                           |  |  | The total quantity of waste accepted at the site shall be less than 55,000 tonnes a year.  |
|                           |  |  | Use of pressure valves to protect the integrity of the plant. Such systems should not be used routinely to vent unburnt biogas.  |
|                           |  |  | All food waste to be stored indoors and treated on an impermeable surface with sealed drainage, surrounded by a bund with a capacity of at least 110% of the largest vessel or 25% of the total tankage volume (whichever is highest). |
|                           |  |  | Digestate shall be stored within covered containers or covered lagoons and should be of a design and capacity fit for purpose.   |
|                           |  |  | All biogas condensate shall be discharged into a sealed drainage system.   |
|                           |  |  | From receipt of permitted waste through to its digestion and recovery of by-products from the installation.  |

**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                                       |
|---|---|--|--|
| <b>Directly Associated Activity</b>                   |   |  |  |
| A2  | Biogas storage and supply system  | Storage of biogas arising from the Anaerobic Digestion Plant   | From receipt of gas into the holders to supply to the listed activity              |
| A3  | Emergency flare operation   | Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engines.<br>D10: Incineration on land | From receipt of biogas to the release of combustion products from the flare stack. |
| A4  | R1: Burning of waste as a fuel<br><br>Combustion of biogas in two combined heat and power (CHP) engines. The thermal input rate of each is 2.76 MWth (CHP1) and 3.36 MWth (CHP2). | From receipt of biogas produced on site to combustion via a CHP engine with the release of combustion gases.                     |  |
| <b>Description of activities for waste operations</b> |   | <b>Limits of activities</b>  |  |
| -   | -   | -  |  |

**Table S1.2 Operating techniques**

| Description   | Parts   | Date Received       |
|---|---|---------------------|
| Technical Guidance Note EPR 1: How to comply with your environmental permit                             | All   | N/A                 |
| Application   | Supporting information SOL0311GP01_1<br>Dated June 11:<br>- Section 4.1.5 Accidents and Emergencies | 17/06/11            |
|   | Odour management plan reference OMP   | 15/12/11            |
|   | Hazard Analysis & Critical Control Points – ref: GP-HACCP   | 17/06/11            |
| Sector Guidance Note 5.06: Guidance for the Recovery and Disposal of hazardous and non hazardous waste. |   | 17/06/11            |
| PPG 29: Safe Storage of Combustible Materials   |   | 17/06/11            |
| PPG 18: Managing Fire, Water and Major Spillages  |   | 17/06/11            |
| PPG 1: General Guide to the prevention of pollution   |   | 17/06/11            |
| Additional information  | Schedule 5 Responses  | 26/10/11 & 11/11/11 |

**Table S1.2 Operating techniques**

| <b>Description</b>     | <b>Parts</b>                          | <b>Date Received</b> |
|------------------------|---------------------------------------|----------------------|
| Application            | SOL0614GP02 dated September 2014      | 29/09/14             |
| Additional information | Odour Management Plan dated June 2015 | 08/06/15             |
| Application            | Part C2                               | 16/11/15             |

## Schedule 2 - Waste types, raw materials and fuels

**Table S2.1 Permitted waste types and quantities for anaerobic digestion**

| Maximum quantity | No more than 55,000 tonnes per year of waste to be accepted and processed<br>No more than 30 tonnes per day of animal by-products to be accepted and processed |
|------------------|--|
| Waste code       | Description  |
| <b>02</b>        | <b>WASTES FROM AGRICULTURAL, HORTICULTURAL, HUNTING, FISHING AND AQUACULTURAL PRIMARY PRODUCTION, FOOD PREPARATION AND PROCESSING</b>                          |
| <b>02 01</b>     | <b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>   |
| 02 01 01         | Sludges from washing and cleaning  |
| 02 01 02         | Animal-tissue waste  |
| 02 01 03         | Plant-tissue waste   |
| 02 01 06         | Animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site   |
| 02 01 07         | Wastes from forestry   |
| <b>02 02</b>     | <b>Wastes from the preparation and processing of meat, fish and other foods of animal origin</b>   |
| 02 02 01         | Sludges from washing and cleaning  |
| 02 02 02         | Animal-tissue waste  |
| 02 02 03         | Materials unsuitable for consumption or processing   |
| 02 02 04         | Sludges from on-site effluent treatment  |
| <b>02 03</b>     | <b>Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee and tobacco preparation and processing</b>   |
| 02 03 01         | Sludges from washing, cleaning, peeling, centrifuging and separation   |
| 02 03 04         | Materials unsuitable for consumption or processing   |
| 02 03 05         | Sludges from on-site effluent treatment  |
| <b>02 04</b>     | <b>Wastes from sugar processing</b>  |
| 02 04 01         | Soil from cleaning and washing beet  |
| 02 04 03         | Sludges from on-site effluent treatment  |
| <b>02 05</b>     | <b>Wastes from the dairy products industry</b>   |
| 02 05 01         | Materials unsuitable for consumption or processing   |
| 02 05 02         | Sludges from on-site effluent treatment  |
| <b>02 06</b>     | <b>Wastes from the baking and confectionery industry</b>   |
| 02 06 01         | Materials unsuitable for consumption or processing   |
| 02 06 03         | Sludges from on-site effluent  |
| <b>02 07</b>     | <b>Wastes from the production of alcoholic and non alcoholic beverages (except coffee, tea and cocoa)</b>  |
| 02 07 01         | Wastes from washing, cleaning and mechanical reduction of raw materials  |
| 02 07 02         | Wastes from spirits distillation   |
| 02 07 04         | Materials unsuitable for consumption or processing   |
| 02 07 05         | Sludges from on-site effluent  |



**Table S2.1 Permitted waste types and quantities for anaerobic digestion**

|                  |  |
|------------------|--|
| Maximum quantity | No more than 55,000 tonnes per year of waste to be accepted and processed<br>No more than 30 tonnes per day of animal by-products to be accepted and processed |
|------------------|--|

| Waste code   | Description  |
|--------------|--|
| <b>19</b>    | <b>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</b> |
| <b>19 05</b> | <b>Wastes from aerobic treatment of solid wastes</b>   |
| 19 05 01     | Non-composted fraction of municipal and similar wastes   |
| 19 05 02     | Non-composted fraction of animal and vegetable waste   |
| 19 05 03     | Off-specification compost  |
| <b>19 08</b> | <b>Wastes from waste water treatment plants not otherwise specified</b>  |
| 19 08 01     | Screenings   |
| <b>20</b>    | <b>MUNICIPAL WASTES AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES INCLUDING SEPARATELY COLLECTED FRACTIONS</b>   |
| <b>20 01</b> | <b>Separately collected fractions</b>  |
| 20 01 08     | Biodegradable kitchen and canteen waste  |
| 20 01 25     | Edible oil and fat   |
| <b>20 02</b> | <b>Garden and park wastes (including cemetery waste)</b>   |
| 20 02 01     | Biodegradable waste  |
| <b>20 03</b> | <b>Other municipal wastes</b>  |
| 20 03 02     | Waste from markets   |

## 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                                    |
|-------------------------------------|------------------------------|--------------------------------------|------------------------|------------------|----------------------|--|
| Point A1 on site plan in Schedule 7 | Oxides of Nitrogen           | Combined heat and power engine (CHP) | 500 mg/m <sup>3</sup>  | Hourly Mean      | Annually             | BS EN 14792: 2005 <sup>1</sup>                                   |
|                                     | Carbon Monoxide              |                                      | 1400 mg/m <sup>3</sup> |                  |                      | BS EN 15058: 2006 <sup>1</sup>                                   |
|                                     | Sulphur Dioxide              |                                      | 350 mg/m <sup>3</sup>  |                  |                      | BS EN 14791: 2005 <sup>1</sup>                                   |
|                                     | Total VOCs including methane |                                      | 1000 mg/m <sup>3</sup> |                  |                      | BS EN 12619: 1999 <sup>1</sup><br>BS EN 13526: 2002 <sup>1</sup> |
| Point A2 on site plan in Schedule 7 | Oxides of Nitrogen           | Combined heat and power engine (CHP) | 500 mg/m <sup>3</sup>  | Hourly mean      | Annually             | BS EN 14792: 2005 <sup>1</sup>                                   |
|                                     | Carbon Monoxide              |                                      | 1400 mg/m <sup>3</sup> |                  |                      | BS EN 15058: 2006 <sup>1</sup>                                   |
|                                     | Sulphur Dioxide              |                                      | 350 mg/m <sup>3</sup>  |                  |                      | BS EN 14791: 2005 <sup>1</sup>                                   |
|                                     | Total VOCs including methane |                                      | 1000 mg/m <sup>3</sup> |                  |                      | BS EN 12619: 1999<br>BS EN 13526: 2002 <sup>1</sup>              |
| Point A3 on site plan in schedule 7 | Oxides of Nitrogen           | Emergency flare                      | No limit set           | None specified   |                      |  |
|                                     | Carbon Monoxide              |                                      |                        |                  |                      |  |
| Flare <sup>2</sup>                  | Total VOCs including methane |                                      |                        |                  |                      |  |

Emission limits for the gas engines and gas flare are based on normal (N) operating conditions and load (temperature: 0°C (273K); pressure: 101.3kPa and oxygen: 5% (dry gas) (Oxygen value of 5% instead of 3% has been agreed in a Compliance Assessment Reporting form and is in line with landfill gas requirements set out in LFTGN08)).

Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme (including the measurement of exhaust gas temperature) shall have either MCERTS certification or MCERTS accreditation (as appropriate), unless otherwise agreed in writing by Natural Resources Wales.

<sup>1</sup>The Monitoring standard or method shall be carried out as detailed in TGN M2: Monitoring of stack emissions to air or as agreed in writing with Natural Resources Wales.

<sup>2</sup>Annual monitoring is only required when flare operates in excess of 10% of the time, taken on an annual assessment period.

## 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                          | A1 & A2                                | Every 12 months  | 06/07/15      |
| Parameters as required by condition 3.1.2 | Emergency Flare                        |                  |               |

**Table S4.2 Reporting forms**

| Media/parameter | Reporting format   | Date of form |
|-----------------|--|--------------|
| Air             | Form air 1 or other form as agreed in writing by Natural Resources Wales | 06/07/15     |

## 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 |
|  |                     |
|  |                     |
|  |                     |

|   |  |
|---|--|
| <b>(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:</b> |  |
| <b>To be notified immediately</b>   |  |
| 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.  |  |

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* 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.

*“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.

*“D”* means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“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 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.

*“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.*

*“R”* means a recovery operation provided for in Annex II 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 IIB to Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on Waste.

*“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

“year” means calendar year ending 31 December.

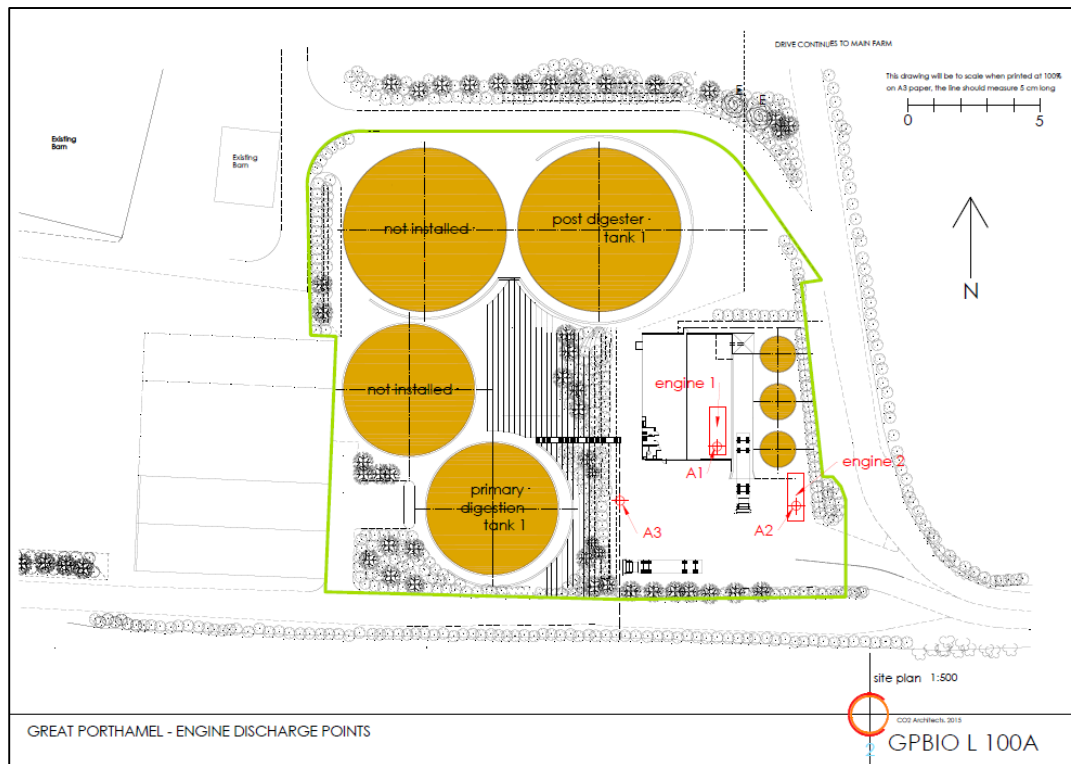
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 5% 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

## Schedule 7 - Site plan



© Crown Copyright and database right 2016. Ordnance Survey licence number 100019741.

END OF PERMIT



Permit Number: EPR/AB32333DW

Operator: GP Biotec Ltd

Facility: Great Porthamel AD Plant

Form Number: Air1 / 06/07/15

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

| Emission Point               | Substance / Parameter        | Emission               |                | Reference Period | Result <sup>[1]</sup> | Test Method <sup>[2]</sup>           | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup> |
|------------------------------|------------------------------|------------------------|----------------|------------------|-----------------------|--------------------------------------|--------------------------------------|----------------------------|
|                              |                              | Limit Value            |                |                  |                       |                                      |                                      |                            |
| A1                           | Oxides of nitrogen           | 500 mg/m <sup>3</sup>  | Hourly Mean    |                  |                       | BS EN 14792: 2005                    |                                      |                            |
|                              | Carbon monoxide              | 1400 mg/m <sup>3</sup> | Hourly Mean    |                  |                       | BS EN 15058: 2006                    |                                      |                            |
|                              | Sulphur dioxide              | 350 mg/m <sup>3</sup>  | Hourly Mean    |                  |                       | BS EN 14791: 2005                    |                                      |                            |
|                              | Total VOCs including methane | 1000 mg/m <sup>3</sup> | Hourly Mean    |                  |                       | BS EN 12616: 1999; BS EN 13526: 2002 |                                      |                            |
| A2                           | Oxides of Nitrogen           | 500 mg/m <sup>3</sup>  | Hourly Mean    |                  |                       | BS EN 14792: 2005                    |                                      |                            |
|                              | Carbon monoxide              | 1400 mg/m <sup>3</sup> | Hourly Mean    |                  |                       | BS EN 15058: 2006                    |                                      |                            |
|                              | Sulphur dioxide              | 350 mg/m <sup>3</sup>  | Hourly Mean    |                  |                       | BS EN 14791: 2005                    |                                      |                            |
|                              | Total VOCs including methane | 1000 mg/m <sup>3</sup> | Hourly Mean    |                  |                       | BS EN 12616: 1999; BS EN 13526: 2002 |                                      |                            |
| Emergency Flare <sup>1</sup> | Oxides of Nitrogen           | No limit set           | None specified |                  |                       | None specified                       |                                      |                            |
|                              | Carbon monoxide              |                        |                |                  |                       |                                      |                                      |                            |
|                              | Total VOCs including methane |                        |                |                  |                       |                                      |                                      |                            |

<sup>1</sup>Annual monitoring is only required when flare operates in excess of 10% of the time, taken on an annual assessment period.

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....  
(Authorised to sign as representative of Operator)

Date.....