



# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Strutt & Parker (Farms) Limited

Euston Biogas Plant

Euston Estate

Euston

Thetford

Suffolk

IP24 2QP

## Permit number

**EPR/MP3034WS**

# Euston Biogas Plant

## Permit number EPR/MP3034WS

### Introductory note

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

The main features of the permit are as follows:

The facility is located about 1 km south east of Euston, St Edmundsbury, Suffolk at grid reference TL 89479 77925. The facility is bound to the north by agricultural land and Home Farm; south, east and west by agricultural land. The surrounding land is currently used for grazing.

The facility is designed to process up to 32,000 tonnes of sugar beet, 8,000 tonnes of maize and 8,000 tonnes of manure, with a maximum annual throughput of 65,000 tonnes. The facility will comprise the following operations:

- Anaerobic digestion plant (four digesters and two liquid digestate storage tanks);
- A silage clamp;
- Combustion plant consisting of one combined heat and power (CHP) engine (0.58 MW), one auxiliary boiler (0.9 MW) and one emergency flare; and
- Biogas upgrading plant

Deliveries of sugar beet, maize and manure will be stored in a silage clamp divided into four bays. The feedstock will be loaded onto feeding hoppers to ensure the optimum particle size is achieved prior to digestion. The macerated feedstock will be delivered from the feeding hoppers to the digesters; leachate from the silage clamp will be collected in a liquid holding tank prior to transfer into the digesters, where the overall feedstock undergoes anaerobic digestion at 40°C for up to 81 days.

A significant proportion (90%) of the biogas drawn from the digesters will be transferred to the biogas upgrading plant for processing into biomethane for injection into the Gas Grid; the remaining proportion (10%) will be used to generate electricity and heat via the CHP engine to power the facility. The by-product from the AD process (whole digestate) will be separated in an enclosed system. The liquid fraction will be pumped to two digestate storage tanks for despatch off-site by tankers. The solid fraction is removed from site by trailer for use as a fertiliser off-site. This environmental permit does not authorise the spreading of digestate (solid or liquid) on land.

Main releases to the environment are to air via the processing of feedstock to produce biogas, processing of biogas to produce biomethane and combustion of biogas in the CHP engine, auxiliary boiler and emergency flare. Biogas will be burnt in the emergency flare in the event it cannot be utilised by the biogas upgrading plant, CHP engine or auxiliary boiler. Uncontaminated site surface water is discharged via one emission point to a soak-away after passing through an oil interceptor. The discharge of leachate or process effluent to surface and groundwater is not permitted at this facility.

There are two internationally designated ecological sites (Breckland SPA/SAC and Waveney & Little Ouse Valley Fens SAC) within 10 km of the facility. There are two Sites of Special Scientific Interest (Breckland Farmland and Barnham Heath) and six non-statutory sites within 2 km of the facility. Assessment by the Environment Agency shows that emissions from the operations at the facility are unlikely to have a significant impact on the habitat sites.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/MP3034WS/A001	Duly made 04/12/14	Application for an anaerobic digestion facility with combustion and upgrading of biogas to biomethane.
Additional information received	03/02/15	Response to Schedule 5 notice #1.
Additional information received	09/02/15	Odour model input files.
Additional information received	10/03/15	Response to Schedule 5 notice #2.
Additional information received	24/03/15	Additional information in relation to biogas upgrading plant, emissions monitoring plan and site infrastructure.
Additional information received	25/03/15	BAT options appraisal.
Permit determined (Billing ref: MP3034WS)	12/05/15	Permit issued to Strutt & Parker (Farms) Limited.

End of introductory note

# Permit

## The Environmental Permitting (England and Wales) Regulations 2010

### Permit number

**EPR/MP3034WS**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**Strutt & Parker (Farms) Limited** (“the operator”),

whose registered office is

**1 Whitbreads Business Centre**

**Whitbreads Farm Lane**

**Chatham Green**

**Chelmsford**

**Essex**

**CM3 3FE**

company registration number 00151618

to operate an installation at

**Euston Biogas Plant**

**Euston Estate**

**Euston**

**Thetford**

**Suffolk**

**IP24 2QP**

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

Name	Date
Thomas Ruffell	12/05/2015

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

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

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

### **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

## **2.5 Pre-operational conditions**

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

## **3 Emissions and monitoring**

### **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

### **3.2 Emissions of substances not controlled by emission limits**

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

### **3.3 Odour**

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

### **3.4 Noise and vibration**

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

### **3.5 Monitoring**

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
  - (b) groundwater monitoring specified in table S3.3;
  - (c) process monitoring specified in table S3.4
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

### **3.6 Pests**

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.



## 4 Information

### 4.1 Records

4.1.1 All records required to be made by this permit shall:

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

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

### 4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the 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 the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

## 4.3 Notifications

### 4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
  - (i) inform the Environment Agency,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
  - (i) inform the Environment Agency, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (c) the death of any of the named operators (where the operator consists of more than one named individual);
- (d) any change in the operator's name(s) or address(es); and
- (e) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

## **4.4 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

<b>Table S1.1 activities</b>			
<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>
A1	S5.4 A(1) (b) (i) Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 100 tonnes per day involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From receipt of waste through to digestion and recovery of by-products (digestate).</p> <p>Anaerobic digestion of waste in four tanks followed by burning of biogas produced from the process.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
<b>Directly Associated Activity</b>			
A2	Storage of waste pending recovery.	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From the receipt of waste to despatch for anaerobic digestion or despatch off-site for recovery.</p> <p>Storage of waste on an impermeable surface with sealed drainage system.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
A3	Physical treatment for the purpose of recycling.	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery.</p> <p>Pre-treatment of waste on impermeable surface with sealed drainage system including screening, sorting, shredding, mixing, compaction, crushing and maceration.</p> <p>Post-treatment of digestate on an impermeable surface with sealed drainage system, including centrifuge or pressing and addition of</p>

<b>Table S1.1 activities</b>			
<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>
			<p>thickening agents.</p> <p>Gas cleaning by biological or chemical scrubbing.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
A4	Steam and electrical power supply	R1:Use principally as a fuel to generate energy	<p>From the receipt of biogas produced at the on-site anaerobic digestion process to combustion via CHP engine and/or boiler with the release of combustion gases.</p> <p>Combustion of biogas in one combined heat and power (CHP) engine with a thermal input of 0.59 MW.</p> <p>Combustion of biogas or propane in one boiler with a thermal input of 0.9 MW.</p>
A5	Emergency flare	D10: Incineration on land	<p>From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.</p> <p>Use of one emergency flare required during periods of breakdown or maintenance of the CHP engine, boiler and/or biogas upgrading plant.</p>
A6	Gas upgrading	Upgrading of biogas to biomethane (including the removal of moisture and other substances such as carbon dioxide, hydrogen sulphide and volatile organic compounds) for injection into the National Grid supply network.	From the receipt of biogas produced at the on-site anaerobic digestion process to injection into the National Grid. This includes return of off-specification biogas for storage and combustion using on-site CHP engine, boiler and/or emergency flare.

<b>Table S1.1 activities</b>			
<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>
			Analysis of biogas, with adjustment of calorific value using propane or rejection of biogas back to storage, combustion or flaring.
A7	Raw material storage	Storage of raw materials including maize silage, lubrication oil and activated carbon.	From the receipt of raw materials to despatch for use within the facility.
A8	Gas storage	Storage of biogas produced from on-site anaerobic digestion of permitted waste in roof (head space) of digesters.	From the receipt of biogas to despatch for use within the facility.
A9	Digestate storage	Storage of liquid digestate in two storage tanks.	From the receipt of digestate produced from the on-site anaerobic digestion process to despatch for use off-site.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/MP3034WS/A001	Risk assessment including AI001 to AI024, Non-technical summary, list of wastes, annual throughput of waste and non-waste feedstock, material flow on site, feedstock statement, Appendix 5 – Specific Questions, process description, site closure plan, Drawings – EA001 & General arrangements sections 1 and 2.	04/02/14
Response to Schedule 5 Notice #1 dated 24/12/14	Response to questions 2, 3, 4, 5, 6 and 8. Revised BAT assessment, Drawing showing fire extinguisher and oil spillage location and process description of biogas upgrading plant.	03/02/15
Response to Schedule 5 Notice #2 dated 25/02/15	Response to questions 2, 3, 4 and 7. Boiler thermal input, leachate holding tank, separation of digestate proposal and acceptance of manure.	10/03/15
Additional information	Information in relation to biogas upgrading plant, emissions monitoring plan and site infrastructure.	24/03/15
Additional information	BAT options appraisal.	25/03/15

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1a	The operator shall carry out a monitoring study to quantify the emissions in relation to the releases of pollutants to air from the installation. The study shall include the monitoring of point source releases to air from the combined heat and power (CHP) engine and boiler (emission points A2 and A3) during normal operation, having regard to the Environment Agency technical guidance M2 and to MCERTS standards.	3 months following the acceptance of waste specified in Table S2.2 for treatment on

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	<p>One monitoring campaign shall be completed. The pollutants to be monitored shall include:</p> <ul style="list-style-type: none"> <li>• Oxides of Nitrogen (NO and NO<sub>2</sub> expressed as NO<sub>2</sub>);</li> <li>• Sulphur dioxide;</li> <li>• Carbon monoxide; and</li> <li>• Total Volatile Organic Compounds (VOCs).</li> </ul>	<p>site or as otherwise agreed in writing with the Environment Agency.</p>
IC1b	<p>Following the completion of IC1a, the operator shall undertake an environmental impact assessment of point source releases to air from the CHP engine and boiler, using the information obtained through the emissions monitoring. The environmental impact assessment and all associated monitoring reports shall be submitted in writing to the Environment Agency for review.</p> <p>The environmental impact assessment shall include:</p> <ul style="list-style-type: none"> <li>• details of the monitoring undertaken and the results obtained;</li> <li>• results of the assessment of long and short term impacts from the emissions in accordance with Environment Agency Guidance Note H1, Annex F – Air emissions</li> <li>• a completed H1 assessment software tool</li> </ul> <p>If the H1 assessment shows that long or short term impacts from the emissions are not insignificant, the operator shall propose an action plan to reduce the impacts of the substances identified.</p> <p>Following the submission of the documentation, the Environment Agency shall assess whether setting of emission limits or routine monitoring is required.</p>	<p>1 month following the completion of IC1a.</p>
IC2a	<p>The operator shall carry out a monitoring study to quantify the emissions in relation to the releases of pollutants to air from the installation. The study shall include the monitoring of point source releases to air from the biogas upgrading plant (emission point A4) during normal operation, having regard to the Environment Agency technical guidance M2 and to MCERTS standards.</p> <p>Two separate monitoring campaigns in a year shall be completed as follows:</p> <ul style="list-style-type: none"> <li>• one monitoring campaign 6 months following commissioning of the installation using waste; and</li> <li>• one monitoring campaign 12 months following commissioning of the installation using waste.</li> </ul> <p>The pollutants to be monitored shall include:</p> <ul style="list-style-type: none"> <li>• Total Volatile Organic Compounds (VOCs); and</li> <li>• Hydrogen sulphide.</li> </ul>	<p>12 months following the acceptance of waste specified in Table S2.2 for treatment on site or as otherwise agreed in writing with the Environment Agency.</p>
IC2b	<p>Following the completion of IC2a, the operator shall undertake an environmental impact assessment of point source releases to air from the biogas upgrading plant, using the information obtained through the emissions monitoring. The environmental impact assessment and all associated monitoring reports shall be submitted in writing to the Environment Agency for review.</p> <p>The environmental impact assessment shall include:</p> <ul style="list-style-type: none"> <li>• details of the monitoring undertaken and the results obtained;</li> <li>• results of the assessment of long and short term impacts from</li> </ul>	<p>1 month following the completion of IC2a.</p>

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	<p>the emissions in accordance with Environment Agency Guidance Note H1, Annex F – Air emissions</p> <ul style="list-style-type: none"> <li>• a completed H1 assessment software tool.</li> </ul> <p>If the H1 assessment shows that long or short term impacts from the emissions are not insignificant, the operator shall propose an action plan to reduce the impacts of the substances identified.</p> <p>Following the submission of the documentation, the Environment Agency shall assess whether setting of emission limits or routine monitoring is required.</p>	
IC3	<p>The operator shall submit a written report to the Environment Agency for approval. The report shall contain a written review of the effectiveness of the installation's odour management plan.</p> <p>The report shall include the dates for the implementation of individual measures identified in order to ensure compliance with indicative BAT as specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste and Horizontal Guidance H4 – Odour Management.</p> <p>The operator shall implement the actions and outcomes of the report as approved, and from the date stipulated by the Environment Agency.</p>	3 months following the acceptance of waste specified in Table S2.2 for treatment on site or as otherwise agreed in writing with the Environment Agency.

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
POC 1	<p>At least eight weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall provide a written commissioning plan using waste for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected duration and timescales for completion of commissioning activities and the measures to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency. No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>
POC 2	<p>At least eight weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall ensure that a review of the design, method of construction and integrity of the proposed site secondary containment (dense asphaltic concrete and sealed drainage system) is carried out by a qualified structural engineer. The review shall compare the constructed secondary containment against the standards set out in Section 2.2.5 of Sector Guidance Note IPPC S5.06 - Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste and CIRIA C736 - Containment systems for the prevention of pollution - secondary, tertiary and other measures for industrial and commercial premises or other relevant industry standard.</p> <p>The review shall include:</p> <ul style="list-style-type: none"> <li>- physical condition of the secondary containment</li> <li>- the suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure;</li> <li>- any work required to ensure compliance with the standards set out in CIRIA C736 or other relevant industry standard; and</li> <li>- a preventative maintenance and inspection regime.</li> </ul>



<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
	<p>A written report of the review shall be submitted to the Environment Agency detailing the review's findings and recommendations. Remedial action shall be taken to ensure that the secondary containment meets the standards set out in the technical guidance documents and implement the maintenance and inspection regime.</p> <p>No waste shall be accepted at the facility unless the Environment Agency has given prior written permission under this condition.</p>
POC 3	<p>At least four weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall submit to the Environment Agency for approval:</p> <ul style="list-style-type: none"> <li>• the final design of proposed soak-away system and</li> <li>• the final site drainage plan.</li> </ul> <p>The site drainage plan shall include the location of the point source emission to the soak-away system, where uncontaminated site surface water will be discharged, having regard to the Environment Agency's Technical Guidance Note H5 on Site Condition Reports and the report template.</p> <p>No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>
POC 4	<p>At least two weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall submit a written copy of the site Environmental Management System (EMS) and make available for inspection all documents and procedures which form part of the site EMS.</p> <p>The EMS shall cover all activities at the installation and shall be in accordance with the Environment Agency Guidance – How to comply with your Environmental Permit and section 2.3 in Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste. The EMS shall include the techniques the operator relies upon to manage the operation, closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit.</p> <p>No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>
POC 5	<p>At least four weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall submit a revised odour management plan to the Environment Agency in writing. The plan shall incorporate all the required detailed information as specified in the Environment Agency's review of the site's odour management plan (dated 24 March 2015). The revised plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste and Horizontal Guidance H4 – Odour Management. The odour management plan shall be subject to a written approval by the Environment Agency following internal review. No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>
POC 6	<p>At least four weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall provide written evidence to the Environment Agency of the Technically Competent Manager (TCM) at the proposed installation. The report shall confirm that the person(s):</p> <ul style="list-style-type: none"> <li>• hold the relevant qualifications under the CIWM/WAMITAB scheme or other</li> </ul>

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
	<p>equivalent for the operation of the anaerobic digestion plant, and</p> <ul style="list-style-type: none"> <li>• have appropriate competence in operating the biogas upgrading plant (including the injection of biomethane into the Gas Grid).</li> </ul> <p>No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>
POC 7	<p>At least two weeks (or any other date as agreed in writing with the Environment Agency) prior to the acceptance of waste specified in Table S2.2 at the installation, the operator shall submit an accident management plan to the Environment Agency for written approval. The plan shall take into account the appropriate measures for management of accidents specified in section 2.8 of Sector Guidance Note IPPC S5.06 - Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste.</p> <p>No waste shall be accepted at the installation unless the Environment Agency has given prior written permission under this condition.</p>

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Maize silage	Substantially free of non vegetable matter

Table S2.2 Permitted waste types and quantities for anaerobic digestion	
Maximum quantity	The total annual throughput of waste and non-waste feedstock shall not exceed 65,000 tonnes.
Waste code	Description
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 03	plant-tissue waste including husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste
02 01 06	animal faeces, urine and manure including spoiled straw, effluent collected separately and treated off-site

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A1 on Drawing EA0002 in the Application	Emergency flare stack [note 1]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	150 mg/m <sup>3</sup>	Hourly average	[note 2, 3]	BS EN 14792
		Carbon monoxide	50 mg/m <sup>3</sup>			BS EN 15058
		Total VOCs	10 mg/m <sup>3</sup>			BS EN 12619:2013
Point A2 on Drawing EA0002 in the Application	CHP engine stack – 0.58 MW	No parameter set [note 4]	No limit set [note 4]	--	[note 3]	--
Point A3 on Drawing EA0002 in the Application	Boiler exhaust – 0.9 MW	No parameter set [note 4]	No limit set [note 4]	--	[note 3]	--
Point A4 on Drawing EA0002 in the Application	Biogas upgrading plant stack	No parameter set [note 4]	No limit set [note 4]	--	[note 3]	--
PV1 – PV4 on Drawing EA0002 in the Application	Digesters pressure relief valves	No parameter set	No limit set	--	[note 3]	--
<p>Note 1 - These limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.</p> <p>Note 2 - Monitoring to be undertaken 12 months after commissioning of the emergency flare. Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours).</p> <p>Note 3 - Record of operating hours to be submitted annually to the Environment Agency.</p> <p>Note 4 - On completion of Improvement Conditions 1a, 1b, 2a and 2b, the Environment Agency shall consider whether or not the setting of emissions limits or surrogate monitoring is appropriate for this Installation.</p>						

<b>Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 on Drawing EA0002 in the Application, emission to soak-away	Uncontaminated site surface water from roofs and non operational areas	No visible oil or grease	No limit set	--	Weekly	Visual assessment
W1 on Drawing EA0002 in the Application, emission to soak-away	Uncontaminated water from bunded area	Ammoniacal nitrogen	No limit set [note 1]	Spot sample	Monthly [note 2]	In accordance with Environment Agency's Technical Guidance Note - M18 Monitoring of discharges to water and sewer.
		Chemical Oxygen Demand	No limit set [note 1]	Spot sample	Monthly [note 2]	
<p>Note 1 – In the event monitoring data shows that the water from the bunded area is contaminated, there shall be no further discharges to W1 from this area until the source of the contamination is investigated and remedied.</p> <p>Note 2 – monthly or in the event the containment tanks are full, whichever is sooner.</p>						

<b>Table S3.3 Groundwater – monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
BH101, BH102, BH103, BH104 on Drawing EA0002 in the Application	Al, As, Bo, Ca, Cr, Cd, Hg, Cu, Fe, Pb, Mg, Mn, Ni, Na, K, Zn, Cl (dissolved), Nitrate, Sulphate, Sulphide, Fluoride, Total Sulphur, Total organic carbon, Total alkalinity, pH, BOD, COD, Dissolved oxygen, Total TPH	Annually	In accordance with Environment Agency's Technical Guidance Note - M18 Monitoring of discharges to water and sewer	--
	Electrical conductivity	Monthly		--
	Ammoniacal nitrogen	Monthly		--

<b>Table S3.4 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Biogas from digesters	Flow	Continuous	In accordance with EU weights and measures Regulations	--
Biogas from digesters	Methane	Continuous	None specified	Gas monitors to be calibrated in accordance with manufacturer's recommendations
	Hydrogen sulphide	Continuous	None specified	--
Feedstock reception area, silage clamp, digestate separation area, digesters and all storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Digesters and all storage tanks	Integrity checks	Weekly	Visual assessment	--
Representative sample of each digester's contents	Temperature, pH, ammonia, Organic acids (FOS) and Total inorganic Carbon (TAC)	As described in Application	As described in Application	--

## Schedule 4 – Reporting

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

<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1	A1	Every 12 months	1 January, 1 April, 1 July, 1 October
Emissions to air Parameters as required by condition 3.5.1	A2, A3, A4	Not required (unless emission limits are set on completion of Improvement Conditions 1a, 1b, 2a and 2b, then reporting period shall be every 12 months)	--
Emissions to water Parameters as required by condition 3.5.1	W1	Every 3 months	1 January, 1 April, 1 July, 1 October
Emissions to groundwater Parameters as required by condition 3.5.1	BH101, BH102, BH103, BH104	Every 3 months	1 January, 1 April, 1 July, 1 October

<b>Parameter</b>	<b>Units</b>
Electricity generated	MWh
Biomethane generated	tonnes or m <sup>3</sup>
Liquid digestate	tonnes or m <sup>3</sup>
Solid digestate	tonnes

<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	tonnes or m <sup>3</sup>
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m <sup>3</sup>
Emergency flare, CHP engine, boiler and biogas upgrading plant operation	Annually	hours
CHP engine efficiency	Annually	%

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Water	Form water 1 or other form as agreed in writing by the Environment Agency	12/05/15
Groundwater	Form groundwater 1 or other form as agreed in writing by the Environment Agency	12/05/15
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	12/05/15
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	12/05/15
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	12/05/15
Waste returns	E-waste Return Form	--



# 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	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</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.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

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

“ADQP” means Anaerobic Digestion Quality Protocol

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

“animal waste” means any waste consisting of animal matter that has not been processed into food for human consumption.

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

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

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

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

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

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

“emissions to land” includes emissions to groundwater.

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

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

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

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

“Industry Standard Protocol” means “A standardised protocol for the monitoring of bioaerosols at open composting facilities” published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

“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.

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

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

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

“treated wood” means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and venner).

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

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

“year” means calendar year ending 31 December.

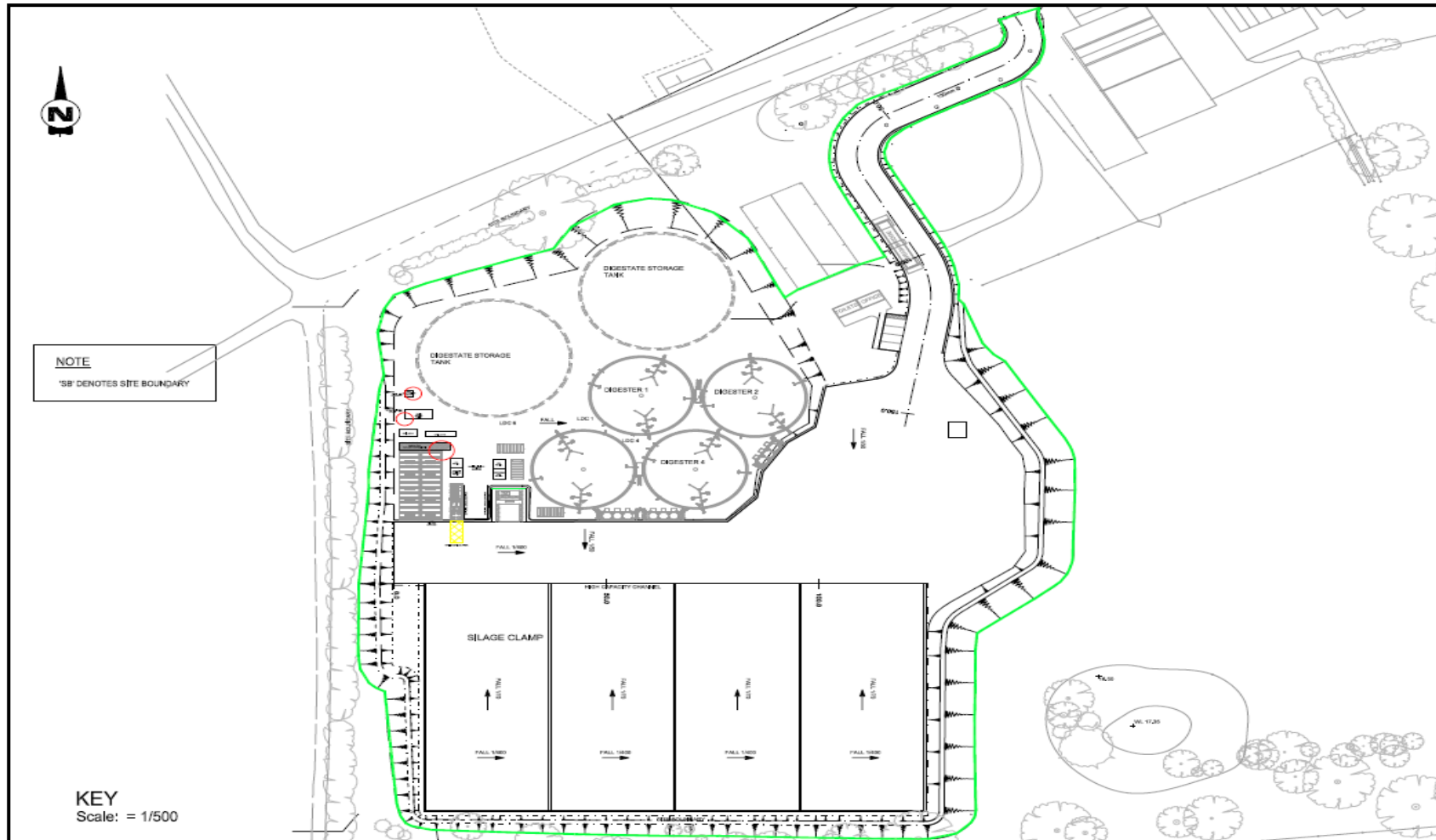
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

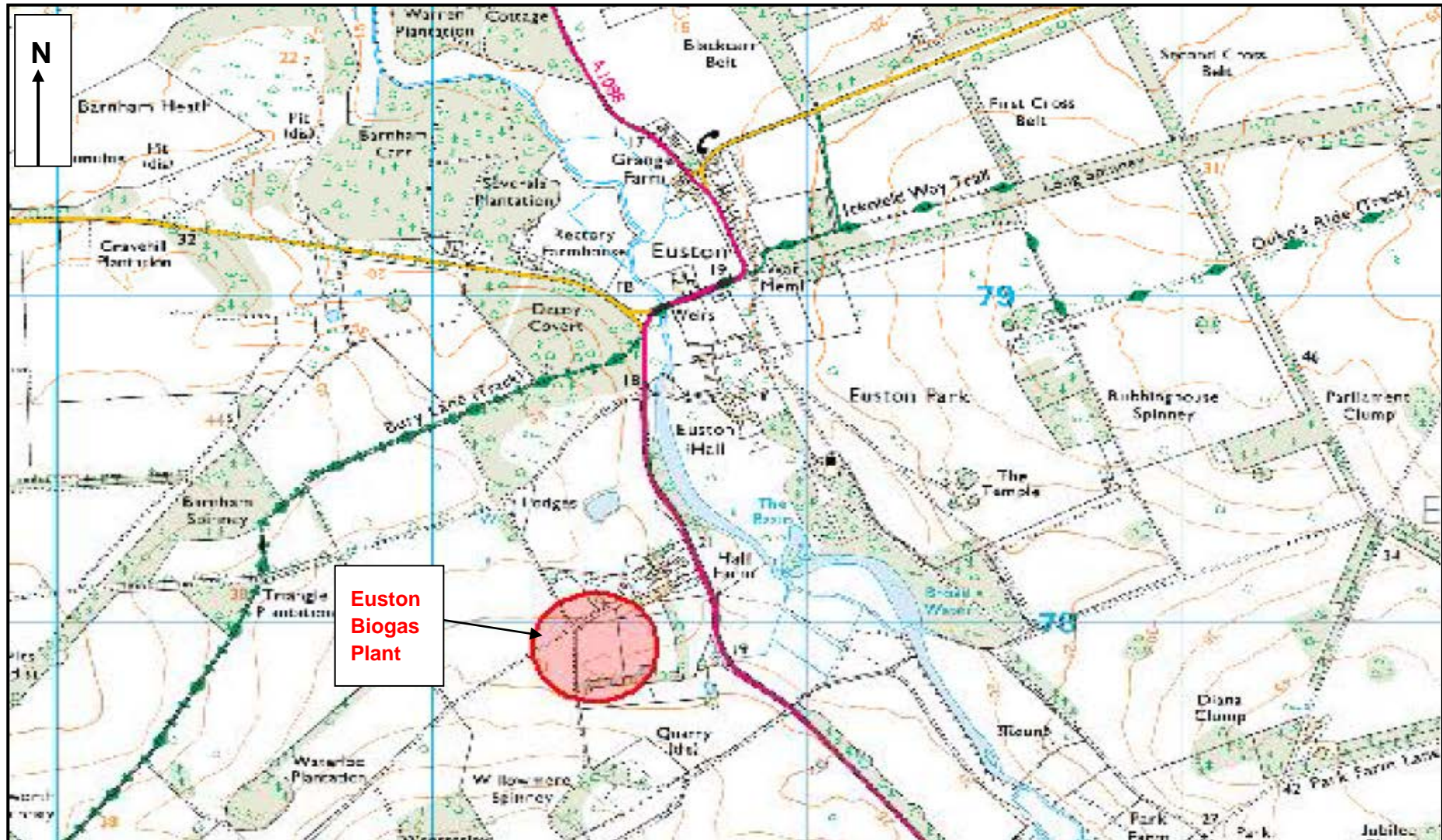
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels, 3% or 5% for gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, 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

## Site layout plan



**Site location plan**



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END OF PERMIT

Permit number  
EPR/MP3034WS

**Permit Number:**            **EPR/MP3034WS**            **Operator:**            **Strutt & Parker (Farms) Limited**

**Facility:**                    **Euston Biogas Plant**            **Form Number:**    **Water1 / 12/05/15**

**Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY**

<b>Emission Point</b>	<b>Substance / Parameter</b>	<b>Emission Limit Value</b>	<b>Reference Period</b>	<b>Result [1]</b>	<b>Test Method [2]</b>	<b>Sample Date and Times [3]</b>	<b>Uncertainty [4]</b>
W1	No visible oil or grease		--		In accordance with Environment Agency's Technical Guidance Note M18 – Monitoring of discharges to water and sewer.		
	Ammoniacal nitrogen		Spot sample				
	Chemical Oxygen Demand		Spot sample				

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....

Date.....

(Authorised to sign as representative of Operator)

**Permit Number:**            **EPR/MP3034WS**            **Operator:**            **Strutt & Parker (Farms) Limited**

**Facility:**                    **Euston Biogas Plant**            **Form Number:** **WaterUsage1 / 12/05/15**

**Reporting of Water Usage for the year**

<b>Water Source</b>	<b>Usage (m<sup>3</sup>/year)</b>	<b>Specific Usage (m<sup>3</sup>/unit output)</b>
Mains water		
Site borehole		
River abstraction		
<b>TOTAL WATER USAGE</b>		

Operator's comments:

Signed ..... Date.....

(authorised to sign as representative of Strutt & Parker Farms Limited)



**Permit Number:** EPR/MP3034WS      **Operator:** Strutt & Parker (Farms) Limited

**Facility:** Euston Biogas Plant      **Form Number:** Energy1 / 12/05/15

**Reporting of Energy Usage for the year**

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
Biogas	tonnes		
<b>TOTAL</b>	-		

\* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed ..... Date.....

(Authorised to sign as representative of Strutt & Parker Farms Limited)



**Permit Number: EPR/MP3034WS Operator: Strutt & Parker (Farms) Limited**

**Facility: Euston Biogas Plant Form Number: Groundwater1 / 12/05/15**

**Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY**

Monitoring Point	Substance / Parameter Trigger level	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
BH101, BH102, BH103, BH104	Al, As, Bo, Ca, Cr, Cd, Hg, Cu, Fe, Pb, Mg, Mn, Ni, Na, K, Zn, Cl (dissolved), Nitrate, Sulphate, Sulphide, Fluoride, Total Sulphur, Total organic carbon, Total alkalinity, pH, BOD, COD, Dissolved oxygen, Total TPH					
BH101, BH102, BH103, BH104	Electrical conductivity					
BH101, BH102, BH103, BH104	Ammoniacal nitrogen					

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

Signed ..... Date.....

(Authorised to sign as representative of Strutt & Parker Farms Limited)