



# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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T L & C W Webster Ltd

Oakwood Farm  
Hay-a-Park  
Knaresborough  
North Yorkshire  
HG5 0RX

**Permit number**

EPR/LP3438YR

# **Oakwood Farm**

## **Permit number EPR/LP3438YR**

### **Introductory note**

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

The main features of the permit are as follows.

Oakwood Farm is situated approximately 1.7 kilometres east of the town of Knaresborough. The installation is approximately centred on National Grid Reference SE 38016 57992.

The installation is operated by T L & C W Webster Ltd and comprises 15 pig houses, numbered 1 - 3, 5, 6, 8, 10 - 16, 21 and 22. The 16 pig houses provide a capacity for 685 sows and (this includes 186 farrowers), 2550 pigs 7-30kg, 3300pigs >30kg (this includes 74 unserved gilts) and 8 boars.

Pig houses numbered 2, 12, 13, 14 and 21 are ventilated by roof fans with an emission point higher than 5.5 metres above ground level and an efflux speed greater than 7 metres per second. Pig houses numbered 1, 5 and 15-17 are ventilated by roof fans with an emission point higher than 3.5 metres above ground level and an efflux speed greater than 2 metres per second. Pig houses 3, 6, 8, 10, 11 and 22 are naturally ventilated by roof vents with side inlets.

Manure is removed from the buildings with a solid floor when houses are cleaned out. It is moved to a concrete pad and stored on the installation for a limited time before being removed to field heaps prior to spreading. Slurry is pumped from the buildings with slatted flooring (houses 1, 2, 5, 12- 16 and 21) and stored in a circular tank on the installation, or taken to sealed tankers off site. Both slurry and manure is spread on operator controlled land in accordance with a nutrient management plan and the requirements of the Nitrate Pollution Prevention Regulations.

The areas immediately surrounding the pig houses at the installation are concreted. Roof water and uncontaminated yard water runoff from all pig houses (excluding periods of washout when water from the yard drains to the slurry tank) is piped into a land drain adjacent to the site and discharged into an unnamed ditch which drains to an unnamed tributary of the River Nidd. Run off from the manure store is kept separate from yard and roof water and is directed to the slurry storage system.

The land around the site is predominantly agricultural. The surrounding topography is relatively flat and low lying. Associated food is stored on the installation in sealed food bins. Mortalities are incinerated on site using an incinerator which is registered with the local authority. Ash is mixed with manure and spread on land owned by the operator.

There is 1 Special Area of Conservation (SAC), within 10km of the installation. In addition there are 3 Sites of Special Scientific Interest (SSSI) within 5km of the installation, and 1 Local Wildlife Site (LWS). An assessment of the impact of emissions has been carried out and the installation is considered to have no adverse effect on the nature conservation sites.

We have reviewed the permit for this installation against the revised BAT Conclusions in the Intensive Farming BAT conclusions document dated February 2017. The permit conditions and schedules ensure the compliance of this installation with this BAT conclusions document.

This permit implements the requirements of the European Union Directive on Industrial Emissions.

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	Duly made 26/02/2018	Application for an intensive farming pig installation permit.
Schedule 5 (dated 13/04/2018) response received	14/04/2018	Confirmation of pig numbers, revised non-technical summary, site condition report, revised housing and drainage review, and estimated emissions from the installation
Schedule 5 (dated 13/04/2018) response received	17/04/2018	Telephone call confirming ventilation in pig house 22
Additional information received	17/04/2018	Revised housing and drainage review
Additional information received	15/05/2018	Clarification of site drainage and generator fuel storage.
Additional information received	22/05/2018	Confirmation that the tractor and associated fuel is not stored on the installation.
Additional information received	05/06/2018	Revised slurry and dirty water site drainage plan and revised clean water drainage and ventilation plan.
Second Schedule 5 (dated 15/06/2018) response received	03/07/2018	Clarification around site ventilation and drainage, slurry pumping and slurry storage. Confirmation that houses 1 and 12 - 16 meet the criteria for frequent slurry removal and are therefore compliant with the new BAT conclusions.  Revised non-technical summary, clean water drainage plan, revised slurry/ dirty water drainage and housing and drainage review document.
Additional information received	16/07/2018	Confirmation that houses 2, 5 and 21 comply with frequent slurry removal criteria.  Revised dirty water drainage plan, confirmation that roadways shown on site plan and concrete and surrounding area is grassed.
Additional information received	23/07/2018	Revised clean water drainage plan and revised technical standards received.
Additional information received	24/09/2018	Revised Environmental Impact: risk assessment and confirmation that the onsite incinerator is AHPA approved
Permit determined EPR/LP3438YR (Billing reference: LP3438YR)	25/09/2018	Permit issued to T L & C W Webster Ltd.

End of introductory note

# **Permit**

## **The Environmental Permitting (England and Wales) Regulations 2016**

### **Permit number**

**EPR/LP3438YR**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**T L & C W Webster Ltd** ("the operator"),

whose registered office is

**Oakwood Farm**

**Hay-a-Park**

**Knaresborough**

**North Yorkshire**

**HG5 0RX**

company registration number 08894364

to operate an installation at

**Oakwood Farm**

**Hay-a-Park**

**Knaresborough**

**North Yorkshire**

**HG5 0RX**

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

<b>Name</b>	<b>Date</b>
<b>Philip Lamb</b>	<b>25/09/2018</b>

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, so far as is reasonably practicable, including those risks 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 the permit.

### **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) maintain records of fuel and energy consumption used in the activities;

### **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; and
  - (b) maintain records of raw materials and water used in the activities;

### **1.4 Avoidance, recovery and disposal of wastes produced by the activities**

- 1.4.1 The operator shall take appropriate measures to ensure that the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities and that:
  - (a) 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
  - (b) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The only activity (*activities*) authorised by the permit is (*are*) the activity (*activities*) specified in schedule 1 table S1.1 (the “activities”).

### **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1 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 The operator shall maintain and implement a system to record the number of animal places and animal movements.
- 2.3.4 The operator shall ensure that a diet formulation and nutritional strategy is used to reduce the total nitrogen and total phosphorous excreted.
- 2.3.5 The operator shall take appropriate measures in disposal or recovery of solid manure or slurry to prevent, or where this is not practicable, to minimise pollution.
- 2.3.6 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.7 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:
- the nature of the process producing the waste;
  - the composition of the waste;
  - the handling requirements of the waste;
  - the hazardous property associated with the waste, if applicable; and
  - the waste code of the waste.

## **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 specified in table S3.1, 3.2 and 3.3.
- 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 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; and
  - (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.

### **3.4 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.

### **3.5 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, S3.2; and
  - (b) process monitoring specified in table S3.3.
- 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.

## 3.6 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:
- 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, hazard or annoyance from pests; and
  - 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 schedules 3, 4 and 5 to this permit shall:
- be legible;
  - be made as soon as reasonably practicable;
  - if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - 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:
    - off-site environmental effects; and
    - matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.

## 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 For the following activities referenced in schedule 1, table S1.1 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 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 the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- 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 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.

### 4.3 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; and
- (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:

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

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and

- (g) 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 listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 6.9 A(1)(a)(ii) Rearing of pigs intensively in an installation with more than 2,000 places for production pigs (over 30 kg)	Rearing of pigs intensively in an installation with a capacity for 3300 production pig (over 30 kg) places, and 8 boars.	Keeping of production pigs and not served gilts (over 30 kg), including from receipt of raw materials and fuels on to the site to pigs and associated wastes being removed from site.
<b>Directly Associated Activity</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Keeping sows (below the threshold)	Rearing of breeding stock in an installation with a capacity for 685 sow places.	Keeping of sows and served gilts for production of piglets, from receipt of raw materials and fuels on to the site to removal of sows and associated wastes from site.
Rearing of pigs (up to 30 kg)	Rearing of 2550 pigs to 30 kg.	From weaning of pigs and receipt of raw materials and fuels on to the site up to pigs reaching 30 kg and removal of pigs and associated wastes from site.
Carcass incineration	Operation of an Incinerator for carcass disposal Animal and Plant Health Agency (APHA) approved < 50 kg/hr.	From receipt of raw materials, fuels and input of carcasses to release of combustion products to air and associated wastes removed from site.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/LP3438YR/A001	Responses to Part B3.5 of the application form and referenced supporting documentation.	26/02/2018
Response to Schedule 5 Notice dated 13/04/2018	Confirmation of pig numbers.  Revised supporting documents: Non-technical summary dated 14/04/2018 Site condition report dated 14/04/2018 Housing and drainage review dated 14/04/2018 Estimated emissions from the installation dated 14/04/2018	14/04/2018
Response to Schedule 5 Notice dated 13/04/2018	Telephone call confirming ventilation is pig house 22 will be High velocity roof ventilation.	17/04/2018
Response to Schedule 5 Notice dated 13/04/2018	Revised supporting documents: Housing and drainage review dated 17/04/2018	17/04/2018
Additional information requested 09/05/2018	Clarification of site drainage and generator fuel storage.  Revised supporting documents: Housing and drainage review dated 09/05/2018	15/05/2018

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Additional information requested 09/05/2018	Confirmation that the tractor and associated fuel is not stored on the installation.	22/05/2018
Additional information requested 09/05/2018	Revised supporting documents:  Slurry and dirty water drainage Clean water drainage and ventilation	05/06/2018
Response to Schedule 5 Notice dated 15/06/2018	Confirmation that clean yard and roof water drains to an unnamed ditch which leads to an unnamed tributary of the River Nidd.  Confirmation that slurry pumping is supervised at all times. Clarification of housing ventilation and drainage from housing. Confirmation that there is 6 months slurry storage available. Confirmation that houses 1 and 12-16 meet the criteria for frequent slurry removal and are therefore compliant with the new BAT conclusions.  Revised supporting documents:  Clean water drainage Slurry/ dirty water drainage and high velocity ventilation Housing and drainage review	03/07/2018
Additional information requested 16/07/2018	Confirmation that houses 2, 5 and 21 comply with frequent slurry removal criteria. Confirmation that roadways shown on site plan and concrete and surrounding area is grassed.  Revised supporting documents: Dirty water drainage plan	16/07/2018
Additional information requested 23/07/2018	Revised supporting documents:  Clean water drainage plan Technical standards	23/07/2018
Additional information requested 16/08/2018	Confirmation that the onsite incinerator is AHPA approved.  Revised supporting documents:  Environmental Impact: risk assessment	24/09/2018

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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## 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
High velocity roof fan outlets on pig houses 1, 2, 12 and 22 as shown on the site plan in schedule 7	Pig houses 2, 12 - 14 & 21	---	---	---	---	---
Medium velocity roof fan outlets on pig houses 5 & 13-16 as shown on the site plan in schedule 7	Pig houses 1, 5 & 15 -17	---	---	---	---	---
Natural ventilation (side outlets) on pig houses 3, 6, 8, 10, 11 & 22 as shown on the site plan in schedule 7	Pig houses 3, 6, 8, 10, 11 & 22					
Chimney from carcass incinerator as shown on the site plan reference 'Oakwood Farm: site layout and use of buildings' in application EPR/LP3438YR/A001	Carcass incinerator	---	---	---	---	---

**Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Outlet to unnamed ditch which leads to an unnamed tributary of the River Nidd east of poultry house 4 as indicated on the drainage plan reference 'Clean Water Drainage' dated 23/07/2018 in support of application EPR/LP3438YR/A001	Roof water and water draining from yard (excluding all times yards are contaminated e.g. catching, mucking out or washing) from pig houses 2, 3, 6, 8, 10 -14, 21, 22	---	---	---	---	---
Soakaways alongside pig houses as indicated on the drainage plan reference 'Clean Water Drainage' dated 23/07/2018 in support of application EPR/LP3438YR/A001	Roof water and water draining from yard (excluding all times yards are contaminated e.g. catching, mucking out or washing) from pig houses 1, 5, 15 - 17	---	---	---	---	---

**Table S3.3 Process monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Weaners (rearing of pigs up to 30 kg) in houses 1 (fully slatted flooring with frequent slurry removal), 6, 8 & 10 (solid floor, straw system)	kg N excreted/animal place/year	4.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	2.2 kg P <sub>2</sub> O <sub>5</sub> animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Weaners (rearing of pigs up to 30 kg) in house 1 (fully slatted flooring with frequent slurry removal),	kg NH <sub>3</sub> /animal place/year	0.53 kg NH <sub>3</sub> /animal place/year	Annually	Estimation using emission factors
Weaners (rearing of pigs up to 30 kg) in houses 6, 8 & 10 (solid floor, straw system)	kg NH <sub>3</sub> /animal place/year	0.7kg NH <sub>3</sub> /animal place/year	Annually	As Above
Fattening pigs (production pigs (over 30 kg) in houses 12-16 (fully slatted flooring with frequent slurry removal))	kg N excreted/animal place/year	13.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	5.4kg P <sub>2</sub> O <sub>5</sub> animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance or
Fattening pigs (production pigs over 30 kg) in houses 12-16 (fully slatted flooring with frequent slurry removal)	kg NH <sub>3</sub> /animal place/year	2.6 kg NH <sub>3</sub> /animal place/year	Annually	Estimation using emission factors
Farrowing sows in houses 2, 5 & 21 (including suckling piglets)(fully slatted flooring with frequent slurry removal)	kg N excreted/animal place/year	30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein, and animal performance
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	15 kg P <sub>2</sub> O <sub>5</sub> animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance

**Table S3.3 Process monitoring requirements**

Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency	Monitoring standard or method
Farrowing sows (including suckling piglets) in houses 2, 5 & 21 (fully slatted flooring with frequent slurry removal)	kg NH <sub>3</sub> /animal place/year	5.6 kg NH <sub>3</sub> /animal place/year	Annually	Estimation using emission factors
Mating and gestating sows in houses 3, 11 & 22 (solid floor, straw system)	kg NH <sub>3</sub> /animal place/year	5.2 kg NH <sub>3</sub> /animal place/year	Annually	As above
	kg N excreted/animal place/year	30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein, and animal performance
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	15 kg P <sub>2</sub> O <sub>5</sub> animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Weaners in houses 1, 6, 8 and 10, fattening pigs in houses 12-16, farrowing sows (including suckling piglets) in houses 2, 5 & 22, mating and gestating sows in houses 3, 11 & 21	Dust	n/a	Annually	Estimation using emission factors

## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Process monitoring parameters as required by condition 3.5.1	-	Every 12 months	1 January

<b>Table S4.2 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
kg NH <sub>3</sub> /animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
kg N excreted/animal place/year & kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Dust atmospheric mass emission	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

<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</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.

"Animal and Plant Health Agency (APHA)" is the government agency that licences small on farm incinerators; formerly known as the Animal Health and Veterinary Laboratories Agency.

"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.

"emissions to land" includes emissions to groundwater.

"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.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 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.

'Hazardous property' has the meaning in Annex III of the Waste Framework Directive.

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

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

"Manure and slurry" have the following meaning:

- Manures may be either slurries or solid manures.
- Slurries consist of excreta produced by livestock whilst in a yard or building mixed with rainwater and wash water and, in some cases, waste bedding and feed. Slurries can be pumped or discharged by gravity.
- Slurry includes duck effluent, seepage from manure and wash water.
- Solid manures include farmyard manure (FYM) and comprise material from straw-based housing systems, excreta with lots of straw/sawdust/woodchips in it, or solids from mechanical separators.
- Most poultry systems produce solid manure (litter).
- Solid manure can generally be stacked.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"pests" means Birds, Vermin and Insects.

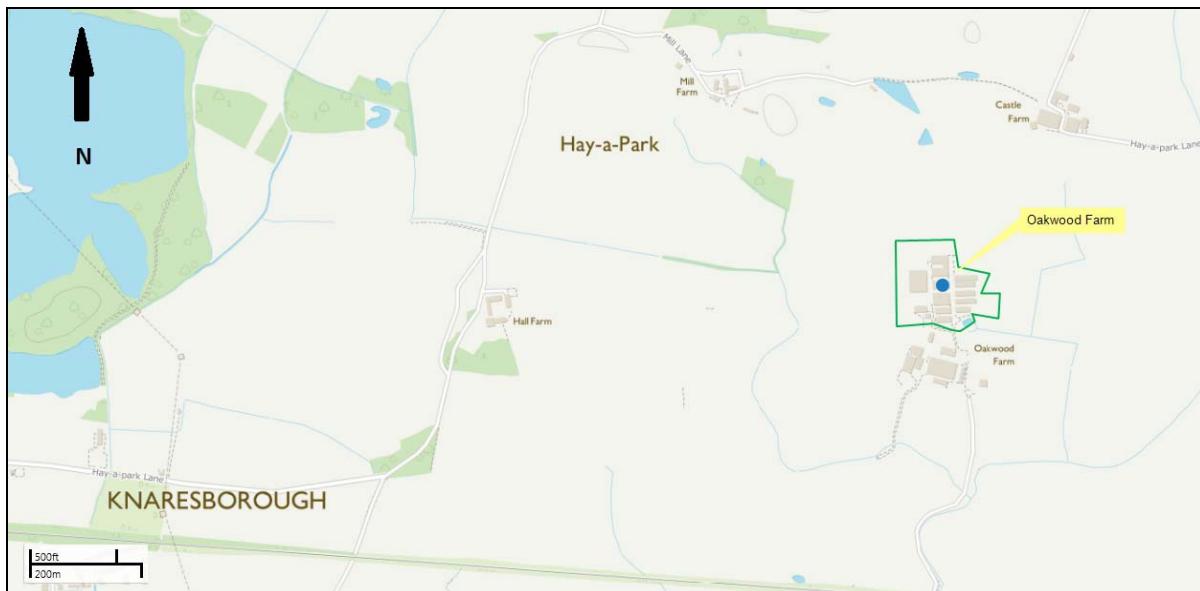
"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

"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.

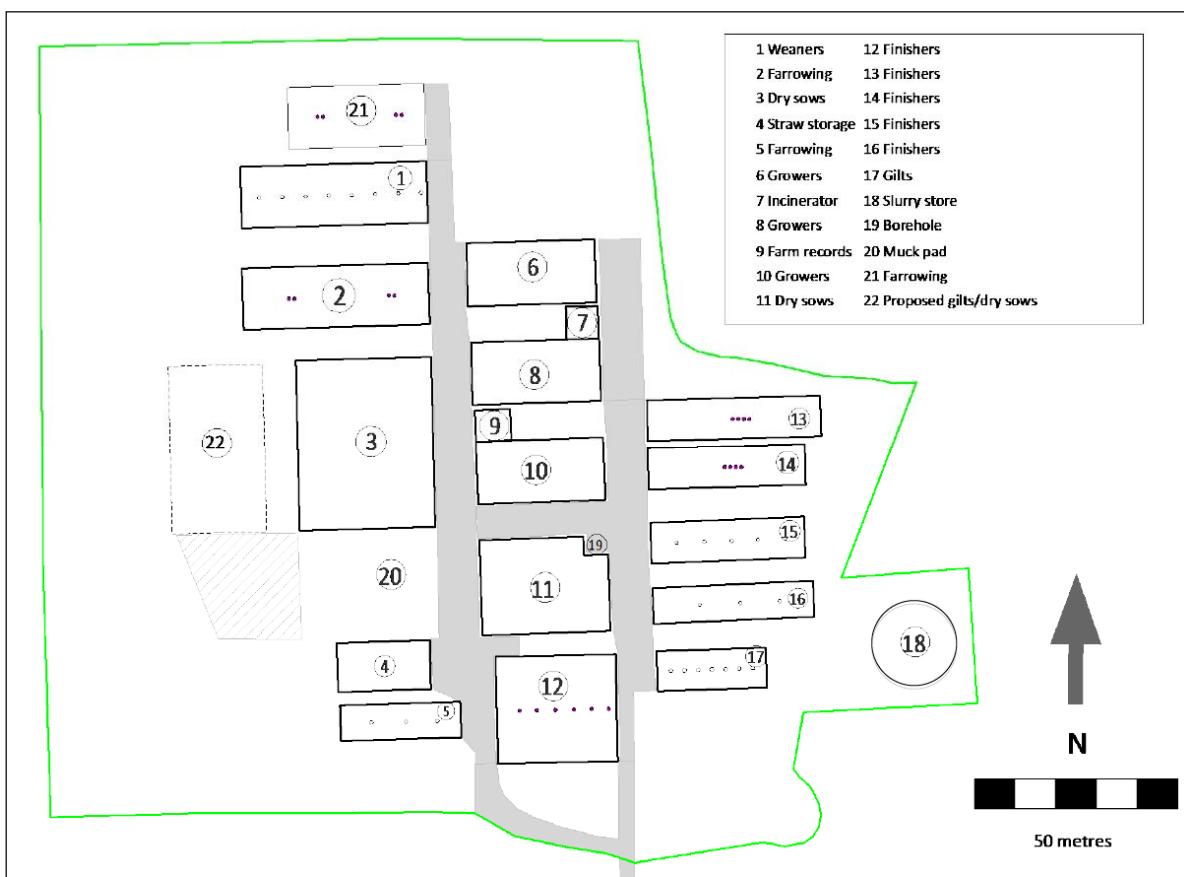
## Schedule 7 – Site plan

Site plan - showing installation boundary as referred to in condition 2.2.1.



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## Site layout plan



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