

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Wrights Produce Limited

Barn Farm Pig Unit
Barn Farm
Bridgham
Norwich
Norfolk
NR16 2RX

Variation application number

EPR/PP3931FP/V002

Permit number

EPR/PP3931FP

Barn Farm Pig Unit

Permit number EPR/PP3931FP

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

Wrights Produce Limited currently leases part of Barn Farm to operate Barn Farm Pig Unit for finishing production pigs. The unit is situated to the east of Bridgham village and approximately 6 miles north-east of Thetford. Barn Farm currently comprises two separate livestock rearing activities:

- pig finishing unit – permitted
- rearing of beef cattle in four open cattle enclosures – unpermitted as the activity does not fall under the Environmental Permitting Regulations.

This variation is to convert the existing open cattle enclosures to six modern pig finishing barns for the rearing of production pigs from 30kg to their final weight of approximately 105kg. The converted enclosures and existing pig finisher barns house a maximum capacity of upto 9,300 places (increased from 3,100 places currently). Each barn houses a maximum of 1,000 pigs.

Pigs are brought in and exported on a weekly basis in batches of 500 pigs/week for the new barns and 200 pigs/week for the existing buildings. Mortalities are removed each day and the numbers recorded. The carcasses are held in covered, vermin-proof bins prior to removal by an off-site contractor. The existing borehole water supply and 20,000 gallon water storage tank is utilised for the water supply to the new barns.

Diets are formulated according to the nutritional requirements and the stage of growth with the change over being made at around 50kg to 60kg. There is the potential to feed a third diet at reduced protein levels at around the 90kg weight. Protein and phosphorus levels are reduced over the growing period and a minimum of two diets are available for all pigs over the production cycle. The addition of digestible phosphorus or the use of enzymes such as phytase as well as the addition of benzoic acid (VevoVital) to diets is used to limit the excretion of phosphorus and ammonia. The farm is using 5kg/tonne VevoVital in the pig feed based on published data regarding dietary supplementation and likely reductions in ammonia emissions to air.

The pigs are housed on concrete surfacing with shallow depth straw bedding fully covering the floors. The floor level of the new barns are raised above the existing lowered floor slab with the floor set lower than the surrounding ground level as a method of pollution control. The barns are open sided naturally ventilated units and are naturally ventilated using a curtain ventilation system and ventilated ridge.

Drainage sumps installed into each barn collect wash waters during cleaning as well as any fluids during the growing period that aren't absorbed by the straw bedding. The drainage sumps discharge into one of two dirty water tanks prior to off-site disposal. Barns 1 to 6 discharge into a 100,000 litre dirty water tank located beneath the concrete surfacing by Barns 2, 3 and 5. Wash down water from Barns 7 and 8 is contained in a 35,000 litre dirty water tank located by Barn 7. Muck is moved to the muck pad located at one end of each barn but no storage of muck or spent bedding occurs at the site. Spent bedding and muck is collected on the day the barns are cleaned for land spreading on land owned by the operator.

Uncontaminated surface water from the site discharges via underground pipes to a ditch to the south of the site. Contamination of the yard areas is kept to a minimum allowing surface water to discharge to the ditch for the majority of the sites operation. During unloading and loading of pigs surface water drains will be shut off to prevent a risk of pollution to the ditch.

At Breckland SPA, the maximum modelled N deposition from cumulative sources exceeds the screening threshold of the critical load. In this regard, approximately an additional 40% to 50% reduction in ammonia emissions or assessed ammonia impact is required to achieve the screening threshold. To achieve this, an Emission Reduction Plan is in place to decrease excreted phosphorous and protein at source with the use of

diet management, feed supplementation and housing management. Improvement conditions are included within the permit to monitor, record and assess the effectiveness of this Plan.

No amendments have been made to permit EPR/PP3931FP/V002 due to changes required by the Intensive Rearing of Pigs or Poultry (IRPP) BReF and BAT Conclusions Document published on 21 February 2017. These will be added to the site permit as part of the Sector Review undertaken within the next four years.

The schedules specify the changes made to the original permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/PP3931FP/A001	Duly made 02/04/2012	Application for an intensive farming pig installation permit.
Additional information received	31/05/2012	Confirmation of fuel storage, energy efficiency, fallen stock management, chemical storage and management, installation boundary and site drainage. In addition receipt of odour and noise management plans.
Permit determined EPR/PP3931FP	18/06/2012	Permit issued to Wrights Produce Limited.
Application EPR/PP3931FP/V002	Duly made 07/06/2016	Application to increase finisher pig numbers from 3,100 to 9,300 by replacing existing cattle sheds with six new purpose built pig barns.
Additional information received	24/01/2017	Details on remodelled ammonia, nitrogen and acid deposition emissions to air in relation to the sites' contribution into the environment.
Variation determined EPR/PP3931FP (billing ref: AP3633DU)	22/05/2017	Varied permit issued.

End of introductory note

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number

EPR/PP3931FP

Issued to

Wrights Produce Limited ("the operator")

whose registered office is

Brettenham Manor

Brettenham

Thetford

Norfolk

IP24 2RP

company registration number 05641329

to operate a regulated facility at

Barn Farm Pig Unit

Barn Farm

Bridgham

Norwich

Norfolk

NR16 2RX

to the extent set out in the schedules.

The notice shall take effect from 22/05/2017

Name	Date
J Linton	22/05/2017

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None.

Schedule 2 – conditions to be amended

The following tables are amended as a result of the application made by the operator.

Table S1.1 is amended to show the revised production pig numbers at the installation.

Table S1.1 Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 6.9 A(1)(a)(i) - rearing of pigs intensively in an installation with more than 2,000 places for production pigs (over 30kg).	Rearing of pigs intensively in an installation with a capacity for 9,300 production pig (over 30kg) places.	From receipt of production pigs and not served gilts (over 30kg), raw materials and fuels onto the site to pigs and associated wastes being removed from site.
Directly Associated Activity		
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Table S1.2 is amended to include new and updated operating techniques.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/PP3931FP/A001	Responses to Part B3 Section 3 of the application form and referenced supporting documentation.	02/04/2012
Request for information dated 02/05/2012	Responses to request for further information including clarification of fuel storage, energy efficiency, fallen stock management, chemical storage and management, installation boundary and site drainage. In addition receipt of Odour Management Plan (dated 28/05/2012 and Noise Management Plan (dated 28/05/2015).	31/05/2012
Variation EPR/PP3931FP/V002	Application form Part C3.5 Questions 4 and 8a. Supporting documents: Pest Management Plan and Noise Management Plan.	24/03/2016
Request for further information	Not duly made response regarding permitted production pig (>30kg) numbers at the installation.	07/06/2016
Schedule 5 Notice response	Revised Odour Management Plan. Emission Reduction Plan dated August 2016 (Section 5 of the Air Dispersion Modelling Report MPA017AQ).	30/08/2016
Schedule 5 Notice response	Evidence for the Emission Reduction Plan (including benzoic acid research papers and former BReF citations).	31/08/2016

Tables S3.1 and S3.2 are amended to show revised emission points from the new pig barns.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Side outlets on pig houses and barns	Pig houses 1 to 5, pig barns 6a, 6b, 7a, 7b, 8a and 8b, and holding pen	---	---	---	---	---

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
Outlets W1 to W5 into adjacent drainage ditch along southern boundary of site as per plan in Schedule 4 of EPR/PP3931FP/V002	Uncontaminated yard surface water from pig houses 1 to 5, pig barns 6a, 6b, 7a, 7b, 8a and 8b, and holding pen	---	---	---	---	---
Outlets W6 to W8 into adjacent drainage ditch along southern boundary of site as per plan in Schedule 4 of EPR/PP3931FP/V002	Roof water from pig houses 1 to 5, pig barns 6a, 6b, 7a, 7b, 8a and 8b, and holding pen	---	---	---	---	---

Schedule 3 – conditions to be added

The following conditions and tables are added as a result of the application made by the operator.

Conditions 2.4.1 and 2.4.2 are added in relation to the improvement program conditions.

- 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.

Table S1.3 is added to include the improvement conditions required for the Emission Reduction Plan, low protein feeds and odour management plan.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>A written plan shall be submitted to the Environment Agency for approval detailing the implementation of the site specific Emission Reduction Plan for the installation. This is to comply with the appropriate measures in S3.2 of SGN How to Comply – Intensive Farming, Version 2.</p> <p>The proposals shall consider further mitigation measures for ammonia emissions to air and use of BAT, as part of the Emission Reduction Plan, detailing the feasibility and cost effectiveness of ammonia emission reduction measures. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.</p>	31/05/2018
IC2	<p>The Operator shall implement the following measures to comply with the appropriate measures in S2.3 of SGN How to Comply – Intensive Farming, Version 2 to reduce ammonia emissions to air by feeding low protein diets to pigs as per the specialist feed formulations submitted with application EPR/PP3931FP/V002:</p> <p>Two stage diet: 18.8% and 15.0% with swap at around 50kg to 60kg.</p> <p>Three stage diet (for production pigs over 100kg): 17.2%, 15.5% and 13.5% with the third diet fed above 90kg</p> <p>To include reporting of specific protein levels in all feeds, percentage reductions in crude protein level within feeds given to pigs throughout the finishing process. Pig feed delivery dockets showing the breakdown of the feed content including the protein content shall be kept as records.</p>	30/11/2017
IC3	<p>A written plan shall be submitted to the Environment Agency for approval on the effectiveness of benzoic acid (VevoVital) added to pig feed to reduce ammonia emissions. Proposals shall include monitoring and reporting to assess if VevoVital supplementation needs be increased from the current 5kg/tonne. This is to comply with the appropriate measures in S3.2 of SGN How to Comply – Intensive Farming, Version 2. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.</p>	31/05/2018
IC4	<p>The Operator shall undertake a review of the site odour management plan to comply with the appropriate measures in S3.3 of SGN How to Comply – Intensive Farming, Version 2. In particular, review of reducing elevated</p>	31/10/2017

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	spikes in odour releases, abnormal operations contingency plan and site specific odour control measures and action trigger levels.	

Tables S4.1 and S4.2 are added to include the reporting of crude protein content of all pig feeds used at the installation.

Table S4.1 Performance parameters

Parameter	Frequency of assessment	Units
Feed protein content	Six monthly	Crude protein content (%)

Table S4.2 Reporting forms

Parameter	Reporting format	Date of form
Feed protein content	Form Protein 1 or other form as agreed in writing by the Environment Agency	31/05/2017

Schedule 6 – Interpretation

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

‘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.

“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.

The following conditions are added following an Environment Agency initiated variation in order to implement the requirements of the Industrial Emissions Directive.

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.

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 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any 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	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
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 4 – amended plan

