



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Hook 2 Sisters Limited

Pickenham Farm
The Old Airfield
North Pickenham
Swaffham
Norfolk
PE37 8LL

Variation application number

EPR/YP3332YA/V002

Permit number

EPR/YP3332YA

Pickenham Farm

Permit number **EPR/YP3332YA**

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

This variation authorises the following changes

- An increase in broiler places from 855,000 to 948,000. There are 35 poultry sheds of which 34 are in current use, with 700,000 places designed for the purpose of rearing turkeys for meat production or 948,000 places designed for the purpose of rearing broilers.
- A modern and consolidated permit has been issued, including BAT-AELs and process monitoring as a result of an Environment Agency initiated variation.

The operator has completed an Odour Management Plan and a Noise Management Plan for the installation. No changes have been made to any of the current infrastructure, site layout, ventilation and feeding/watering systems or management.

The rest of the installation is unchanged and continues to be operated as follows.

Pickenham Farm is a turkey rearing unit operated by Hook 2 Sisters Limited. It is located approximately 600m west of the village of North Pickenham in Norfolk. It is approximately centred on National Grid Reference TF85050 06750. The land around the farm is mainly used for general arable farming. There is a karting track adjacent to the installation boundary, which is considered as a sensitive receptor.

The operator is allowed to stock one or more crops of broilers during the production year instead of female turkeys. The broiler chicks will be brought on to site at one day old and reared for a period of 6 weeks. The production of one or more crops of broilers in each year will result in a reduction of annual ammonia emissions because of the significantly lower emission factor for broilers compared to turkeys. Day old turkey chicks are placed in the sheds and reared until between 12 and 16 weeks of age, when they are removed from the farm for slaughter.

Daily mortalities are removed from the sheds and the numbers recorded. Carcasses are stored for collection by an authorised haulier/renderer.

The rearing units are of timber frame construction with concrete floors. The walls are clad with either plywood or asbestos cement sheeting, and the roofs with steel or asbestos cement profile sheeting. All internal wall surfaces and ceilings are insulated using polystyrene sheeting. Ventilation is provided by ridge inlets and sidewall outlet fans.

Heat is provided by 34 biomass boilers until the birds are of sufficient age to generate enough heat themselves. Wood shavings are spread onto the floor, with additional shavings added as necessary throughout the cycle. Drinking water is provided to the birds via bell type suspended drinkers, from an on-site groundwater abstraction. Feed is delivered to the site and stored in silos.

Feed, gas and water consumption, temperature and lighting levels are monitored daily and adjustments made as necessary to maintain optimum living conditions.

As units become depopulated, all litter is removed and taken off-site to be either landspread on non-operator controlled land, or incinerated at a power station. All units are then washed and disinfected before the next cycle starts. This takes approximately 2 weeks. Each unit has a sump to collect washdown slurry, which is pumped into bowsers and is removed off-site by a contractor.

The nearest Habitats site is Norfolk Valley Fens SAC approximately 4.6km from the installation. The nearest SSSI site is Breckland Forest approximately 1.4km from the installation.

There is 1 Special Area of Conservation (SAC) and 1 Special Protection Area (SPA) within 5km of the installation. In addition there are 3 Sites of Special Scientific Interest (SSSI) within 5km of the installation, and 2 Local Wildlife Sites (LWS) within 2km.

The schedules specify the changes made to the 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/MP3133UP/A001	Duly made 29/01/07	
Schedule 4 Notice	15/05/07	Response date 29/05/07.
Schedule 4 Notice	05/06/07	Response date 18/06/07.
Permit determined EPR/MP3133UP	15/04/08	
Agency Variation Ref: Let2/MG	08/08/08	Improvement condition IC1 is deleted; improvement conditions IC2, IC3 and IC4 are varied.
Agency Variation EPR/MP3133UP/V002	16/08/11	Improvement conditions IC2, IC3 and IC4 are deleted.
Variation Determined EPR/MP3133UP (Billing reference: HP3132FS)	19/09/11	
Variation Application EPR/MP3133UP/V003	Duly made 13/06/14	Application to add 34 biomass boilers and update the permit to modern conditions to include the requirements of IED.
Variation Determined EPR/MP3133UP (Billing reference: BP3231VC)	03/07/14	Varied and consolidated permit issued in modern condition format.
Variation Application EPR/MP3133UP/V004	Duly made 14/09/15	To rear either 700,000 female turkeys or 855,000 broilers.
Schedule 5 Notice dated 20/10/15	10/11/15	Amended Odour Management Plan.
Variation Determined EPR/MP3133UP (Billing reference: DP3339RM)	07/12/15	Varied and consolidated permit issued.
Application EPR/YP3332YA/V002 (full transfer of permit EPR/MP3133UP)	Duly made 02/11/16	Application to transfer the permit in full to Hook 2 Sisters Limited.
Transfer determined EPR/YP3332YA (Billing reference: BP3333YY)	21/12/16	Full transfer of permit complete.

Status log of the permit		
Description	Date	Comments
Application EPR/«Permit_Number»/T001 (full transfer of permit EPR/«Original_Permit_Number»)	Duly made 26/04/17	Application to transfer the permit in full to Hook 2 Sisters Limited.
Transfer determined EPR/«Permit_Number» (Billing reference: «Permit_Number»)	14/06/17	Full transfer of permit complete.
Application EPR/YP3332YA/V002 (variation and consolidation)	Duly made 24/12/18	Application to increase broiler numbers to 948,000. Improvement conditions IC5, IC6 and IC7 are deleted.
Variation determined EPR/YP3332YA (Billing reference: VP3436QW)	26/03/19	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/YP3332YA

Issued to

Hook 2 Sisters Limited (“the operator”)

whose registered office is

Cote

Bampton

Oxfordshire

OX18 2EG

company registration number 05969169

to operate an installation at

Pickenham Farm

The Old Airfield

North Pickenham

Swaffham

Norfolk

PE37 8LL

to the extent set out in the schedules.

The notice shall take effect from 26/03/2019

Name	Date
Adam Lunn	26/03/2019

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of an Environment Agency initiated variation:

Varied and additional conditions-1.2.1, 1.3.1, 2.3.4, 2.3.5, 3.5.1, 3.5.2, 3.5.3, 4.1.2, 4.2.2, 4.2.3 and 4.2.4.

Varied and additional tables- S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements.

Deleted conditions - 1.4.2, 2.3.6, 2.3.8, 3.1.2 and 3.1.3.

Deleted table – S1.3.

The following conditions were varied as a result of the application made by the operator:

Condition 2.4.1 – pre-operational condition and Schedule 6 – Interpretation.

Tables- S1.1 Activities, S1.2 Operating techniques and S1.4A Pre-operational measures for future development, S3.3 Process monitoring requirements, S4.1 Reporting of monitoring data and S4.2 Reporting forms.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/YP3332YA

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/YP3332YA/V002 authorising,

Hook 2 Sisters Limited ("the operator"),

whose registered office is

**Cote
Bampton
Oxfordshire
OX18 2EG**

company registration number 05969169

to operate an installation at

**Pickenham Farm
The Old Airfield
North Pickenham
Swaffham
Norfolk
PE37 8LL**

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

Name	Date
Adam Lunn	26/03/2019

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; and
 - (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:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities
 - (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.

2 Operations

2.1 Permitted activities

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

2.2 The site

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

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:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.

2.4 Pre-operational conditions

- 2.4.1 The operations specified in schedule 1 table S1.4A shall not commence until the measures specified in that table 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 specified in table S3.1 and S3.2.
- 3.1.2 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 and 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:

- (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, hazard or annoyance from pests; and
- (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 schedules 3, 4 and 5 to 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 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) 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:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to 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.

- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 6.9 A(1)(a)(i) Rearing of poultry intensively in an installation with more than 40,000 places	The rearing of poultry in a facility with a capacity for either: 700,000 female turkey places or; 948,000 broiler places.	From receipt of birds, raw materials and fuels onto the site to removal of birds and associated wastes from site.
Directly Associated Activity	Description of specified activity	Limits of specified activity
Biomass boiler	Operation of 34 biomass boilers with an aggregated thermal rated input not exceeding 5.134MWth, for site heating requirements, burning biomass fuel not comprising waste or animal carcasses.	From receipt of raw materials and fuels, to release of combustion products to air and associated wastes removed from site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/MP3133UP/A001	The responses to sections B2.3.1, B2.3.2, B2.3.3, B2.6.1, B2.6.2, B2.6.3, B2.7.1 and B2.7.2 in the Application.	29/01/07
Schedule 4 Notice Request dated 15/05/07	Response to Schedule 4 Notice confirming installation location and boundary, and status of raw materials.	29/05/07
Schedule 4 Notice Request dated 05/06/07	Response to Schedule 4 Notice providing Assessment of Environmental Impacts.	18/06/07
Application EPR/YP3332YA/V002	Responses to Part C3.5 of the application form and referenced supporting documentation.	01/11/18
Response to request for further information EPR/YP3332YA/V002	Noise management plan reference PIC/NMP/0119	24/01/19
Response to request for further information EPR/YP3332YA/V002	Odour management plan reference PIC/OMP/JAN19	07/03/19

Table S1.4A Pre-operational measures for future development

Reference	Operation	Pre-operational measures
1	Stocking of the facility with the additional broiler places included within EPR/YP3332YA/V002	<p>A written plan shall be submitted to the Environment Agency for approval, following a drainage condition survey and review of all site drainage at the installation. The plan should take into account the appropriate measures for the management of drainage systems and run-off in the IRPP BAT Conclusion Document published in February 2017. To include as a minimum specific reference to soakaway routes, site drainage condition and a timetable for any improvements to the drainage system. The notification requirements of condition 2.4.1 shall be deemed to have been complied with on submission of the plan.</p> <p>The report shall be submitted to the Environment Agency in writing for approval.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel for biomass boiler units	Biomass chips or pellets comprising virgin timber, straw, miscanthus or a combination of these.

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
Side fan outlets on buildings 1 – 35 as shown on the plan reference Figure 2 Appendix A1 in the application EPR/MP3133UP/A001	Poultry house 1-35	---	---	---	---	---
Vent from oil tank as shown on the plan reference Figure 2 Appendix A1 in the application EPR/MP3133UP/A001	Diesel tank	---	---	---	---	---
Emissions from 34 biomass boilers as shown on the '120816 1700 Pickenham site Location Plan SG' submitted with application EPR/MP3133UP/V003	(Aggregated) 5.134 MWth biomass boilers	---	---	---	---	---

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
Discharges to soakaway as indicated on the plan reference Figure 1 Appendix A4 in the application EPR/MP3133UP/A001	Roof and surface water from rearing units 1 – 35 (excluding all times yards are contaminated e.g. catching, mucking out or washing)	---	---	---	---	---

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency (1)	Monitoring standard or method
Broilers in houses 1-35	kg N excreted/animal place/year	From 21/02/2021 0.6 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 or Estimation by using manure analysis for total nitrogen content
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 0.25 kg P ₂ O ₅ 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 Estimation by using manure analysis for total phosphorus content
Broilers in houses 1-35	kg NH ₃ /animal place/year	From 21/02/2021 0.08 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Turkeys in houses 1-35	kg N excreted/animal place/year	From 21/02/2021 2.3 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 or Estimation by using manure analysis for total nitrogen content
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 1.0 kg P ₂ O ₅ 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 Estimation by using manure analysis for total phosphorus content
Broilers in houses 1-35	Dust	n/a	Annually	Estimation using emission factors
Turkeys in houses 1-35	Dust	n/a	Annually	Estimation using emission factors
Turkeys in houses 1-35	Ammonia	n/a	Annually	Estimation using emission factors

Notes

(1) For all existing housing permitted before 21/02/17 the monitoring is a requirement from 21/02/21.

Schedule 4 – Reporting

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

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

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
kg NH ₃ /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 ₂ O ₅ 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	

(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 6 – Interpretation

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

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

“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.

“virgin timber” means timber from

- Whole trees and the woody parts of trees including branches and bark derived from forestry works, woodland management, tree surgery and other similar operations (it does not include clippings or trimmings that consist primarily of foliage);
- Virgin wood processing (e.g. wood offcuts, shavings or sawdust from sawmills) or timber product manufacture dealing in virgin timber.
- If virgin timber is mixed with waste timber or any other waste, the mixed load is classed as waste.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“pests” means Birds, Vermin and Insects.

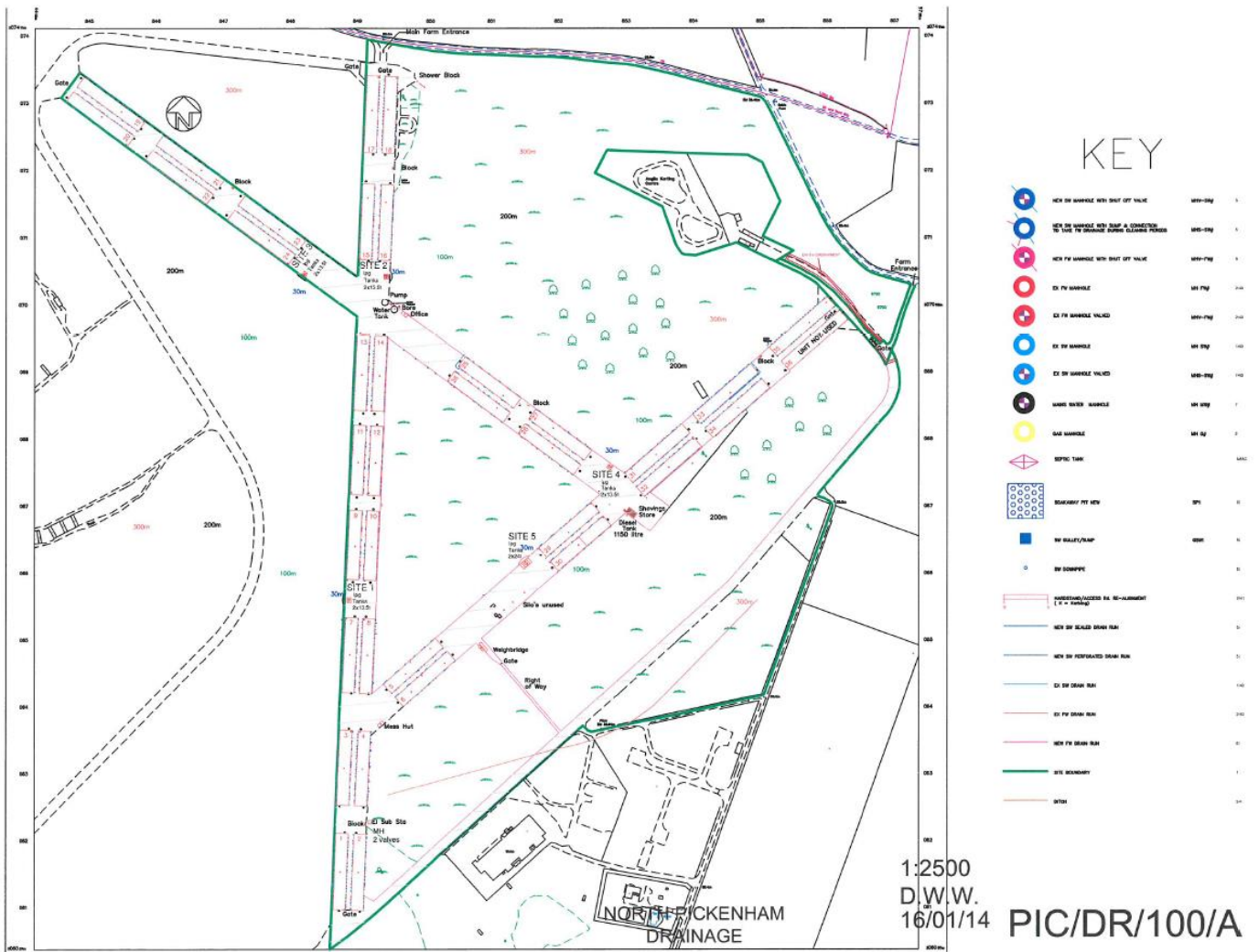
'Waste code' means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

"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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END OF PERMIT