

# Notice of variation and consolidation with introductory note

## The Environmental Permitting (England & Wales) Regulations 2016

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Elsham Linc Limited  
North Moor Pig Farm  
North Moor Farm  
Caistor Road  
Middle Rasen  
Market Rasen  
Lincolnshire  
LN8 3JF

### **Variation application number**

EPR/NP3636FS/V003

### **Permit number**

EPR/NP3636FS

# North Moor Pig Farm

## Permit number EPR/NP3636FS

### 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:

The addition of a slurry acidification system to add acid to the slurry to reduce ammonia emissions, including an extension to the installation boundary to include a muckpad and slurry separator, and the associated slurry pipework between the pig houses, mixing tank, muckpad and slurry separator. The following is a list of the additional equipment installed as a result of this variation:

- slurry separator
- concrete muckpad to store the separated solid fraction of the slurry
- bunded acid storage tank to store 96% sulphuric acid
- recirculation pump which controls the release of the slurry from the pig housing and the recirculation of the slurry back into the pig housing
- mixing tank
- dosing pump to dose the sulphuric acid into the slurry in the mixing tank
- mixing pump to mix the slurry within the mixing tank
- pH meter to monitor the pH of the slurry in the mixing tank
- outdoor shower (in case of accidental spillage or leakage of acid coming into contact with persons)
- underground polyethylene pipework for the recirculation of the slurry
- computer control system to control the process and store data

For reasons of flooring, site drainage and building schedules it is not appropriate to acidify the slurry from all of the buildings at North Moor Pig Farm. The slurry from the following buildings apart from Houses 1 and 2 (Sow Houses), House 3 (Gilt House) and House 9 (orphanage) will be acidified.

The flooring in the pig houses 4, 7 and 8 is fully slatted. Houses 5 and 6 have partly slatted floor. The slats facilitate maximum transfer of dung and urine to the pit. The slurry in the slurry channel is emptied daily into a reception pit from where it is pumped via a slurry separator which separates the solid fraction of the slurry onto a concrete base and the liquid fraction of the slurry to a mixing tank. Approximately 20% of this slurry is transferred to two existing slurry stores. The remaining slurry is dosed with sulphuric acid to reduce the pH of the slurry to pH 5.5. This slurry is then pumped back into the slurry channels beneath the finishing housing.

There are no changes to the pig housing construction, ventilation, flooring type, livestock numbers and type or slurry storage tanks as a result of this variation although clarification has been sought as part of this variation on a number of these issues to ensure it is captured correctly within the permit.

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

North Moor Pig Farm is situated approximately 1.6 kilometres north west of Market Rasen, Lincolnshire. The installation is approximately centred on National Grid Reference TF 09573 91319.

The installation is operated by Elsham Linc Limited and comprises of seven pig breeding and rearing units. The farm rears the progeny of sows to approximately 40kg. Three are 958 sow places which are kept in straw yards and farrowed on fully slatted flooring. The progeny are reared in three stages: a weaner stage with 1950 weaner places in buildings with fully slatted floors or solid floors, a grower stage (15-30kg) with 2000 grower places in buildings with a fully slatted floor and a grower stage (over 30kg) with 2000 grower places in buildings with fully slatted floors. The pigs are moved on to another site to be reared to bacon weight.

Slurry is removed from the farrowing houses, flatdecks and grower houses every five weeks and washed down. One quarter of the sow house and one quarter of the gilt yard is emptied of slurry and washed down every five weeks. Slurry is removed via a combination of underground pipes and reception pits into the circular store. Slurry is exported from the installation for spreading on land owned by third parties.

Pig houses 1 & 2 house sows and house 3 is the Gilt House. These three houses having concreted flooring and fully littered straw system, with Yorkshire boarding natural ventilation through side outlets. Houses 4 and 5 are Farrowing Houses. House 4 has fully slatted floor and roof ventilation (medium velocity). House 5 has partly slatted floor and roof ventilation (medium velocity) and side vents. Pig Houses 6 to 8 comprising of the grower house and flat decks are side fan ventilated. House 6 has partly slatted floor, and houses 7 and 8 have fully slatted floor. House 2 houses sows, but also includes an orphanage for non-weaned piglets, which are removed from the mother due to large litters. Roof fan outlets have been installed in the orphanage. The orphanage has been numbered as house 9.

Food is delivered to the site by lorry and blown directly into eleven bulk storage bins. The sows in the sow yard, the gilts in the gilt yard and 168 farrowers on the fully slatted floor are fed liquid feed which is mixed in a tank in the mixing house. The remaining pigs are fed in solid form in troughs via a feed line system. Mortalities are collected daily and stored in a secure container prior to being transported off site by a licensed operator. At the end of the batch, the houses are depopulated, washed and disinfected ready for the next batch.

Water from the wash out of the pig houses drains directly via pipework to a reception pit prior to pumping into a circular store. Roof water from the sow yards and pig races is also directed to the circular store. Roof water from the sow yards, western half of the grower house, northern half of the Dutch barn, the farrowing house and flatdecks is collected in rainwater harvesting tanks and used for washing down. Roof water from the gilt yard, eastern half of the grower house, the farrowing house, office, southern half of the Dutch barn, feed bins, mixing shed and the dead box drains to soakaways present within the installation boundary. Rainwater falling on the pig races and loading ramp joins the slurry system. Runoff from the Farm yard manure pad area drains to the reception pit.

There are two Sites of Special Scientific Interest (SSSI) within 5km of the installation 4 Local Wildlife Sites (LWS) within 2km of the installation. 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.

The site is subject to a Climate Change Levy Agreement.

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

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 received EPR/NP3636FS/A001	Duly made 03/01/2013	Application for an intensive farming pig installation permit.
Additional information received	29/01/2013	Confirmation of pig numbers, feed storage and slurry storage.
Additional information received	30/01/2013	Confirmation of site closure plan.

Status log of the permit		
Description	Date	Comments
Additional information received	27/02/2013	Confirmation of site boundary.
Additional information received	28/02/2013	Confirmation of technical standards.
Additional information received	25/03/2013	Confirmation of feed bins, permit boundary, ventilation and pig numbers.
Permit determined EPR/NP3636FS	28/03/2013	Permit issued to Elsham Linc Limited.
Application EPR/NP3636FS/V003 (administrative variation)	Duly made 22/01/2015	Application to add emission points for non-weaned piglet orphanage.
Variation determined EPR/NP3636FS	04/02/2015	Varied permit issued.
Application EPR/NP3636FS/V003 (variation and consolidation)	Duly made 18/01/2018	Application to vary the permit to include a slurry acidification system and associated plant.
Additional information received	16/02/2018	Clarification of acidification of slurry optimisation, submitted for application EPR/JP3437CW/V003, but applicable to this application.
Additional information requested 08/03/2018	15/03/2018	Responses to Request for Further Information including clarification of measures to control odour from the acidification of slurry system, ventilation, site drainage, fuel and chemical storage, and including receipt of revised document 22 pig number spreadsheet, revised H1 Environmental Risk Assessment, revised site plan, revised Site drainage plan, revised OMP, revised NMP and revised Dust and Bioaerosol Management Plan.
Additional information received	16/03/18	Clarification of the emergency shower drainage and location, and pig housing slurry systems submitted for application EPR/JP3437CW/V003 (Somery Top Pig Farm), but applicable to this application.
Additional information received	10/04/18	Responses to Request for Further Information including clarification on ventilation and housing systems, and including revised Document 6 Site Plan and revised Document 7 Site Drainage Plan.
Additional information requested 20/04/18	20/04/18	Response to Request for Further Information clarifying boreholes within the installation boundary.
Variation determined EPR/NP3636FS/V003 (Billing reference: KP3039JY)	01/05/18	The variation was granted and a decision made to make a regulator initiated variation at the same time; 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/NP3636FS**

### Issued to

**Elsham Linc Limited** (“the operator”)

whose registered office is

**Cadas House  
Wootton Road  
Elsham Top  
Brigg  
Lincolnshire  
DN20 0NU**

company registration number 05525289

to operate an installation at

**North Moor Pig Farm  
North Moor Farm  
Caistor Road  
Middle Rasen  
Market Rasen  
Lincolnshire  
LN8 3JF**

to the extent set out in the schedules.

The notice shall take effect from 01/05/2018

Name	Date
Anne Nightingale	01/05/2018

Authorised on behalf of the Environment Agency

## **Schedule 1**

The following conditions, tables and schedule have been varied as a result of the application made by the operator:

Addition of condition 2.5 and table S1.4

Amendment of tables S1.1, S1.2 and S3.1 and Schedule 7 site plans

The following conditions, schedules and tables were varied by the Environment Agency as a result of consolidating the permit, to bring it in line with modern conditions:

Addition of conditions 2.3.4, 2.3.6, 3.1.3, 3.5, 4.2.2, 4.2.3 and tables S3.3, S4.1 and S4.2

Amendment of conditions 1.2.1(b), 1.4.1, 2.1.1, 3.1.1, 3.2.1, 3.2.2 (a), 3.6.2 (a), 4.1.1, 4.1.2, 4.3.1, 4.4.2, table S3.2, Schedule 5 Part A and Schedule 6

Amendment and renumbering of condition 2.3.5

Removal of conditions 1.2.1 (c), 2.1.2, 1.3.1 (c), 1.3.1 (d), 1.4.2 and former condition 2.3.5

Renumbering of conditions 2.3.1, 2.3.2, 2.3.3, , 2.3.7, 3.6, 4.2.4, 4.3.4

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/NP3636FS**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/NP3636FS/V003 authorising,

**Elsham Linc Limited** (“the operator”),

whose registered office is

**Cadas House  
Wootton Road  
Elsham Top  
Brigg  
Lincolnshire  
DN20 0NU**

company registration number 05525289

to operate an installation at

**North Moor Pig Farm  
North Moor Farm  
Caistor Road  
Middle Rasen  
Market Rasen  
Lincolnshire  
LN8 3JF**

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

Name	Date
Anne Nightingale	01/05/2018

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:
- (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 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

## **2.5 Pre-operational conditions**

- 2.5.1 The operations specified in schedule 1 table S1.4 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, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

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

- 3.2.1 Emissions of substances not controlled by emission limits 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:
- (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

<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 2350 production pig (over 30 kg) places.	From receipt of production pigs and not served gilts (over 30 kg), raw materials and fuels on to the site to pigs and associated wastes being removed from site.
Section 6.9 A(1)(a)(iii) Rearing of pigs intensively in an installation with more than 750 places for sows	Rearing of pigs intensively in an installation with a capacity for 958 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.
<b>Directly Associated Activity</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Rearing of pigs (up to 30 kg)	Rearing of 3950 pigs to 30 kg.	From weaning 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.
Slurry Acidification System	Slurry Acidification at pH of 5.5	From receipt of raw materials to recycling of acidified slurry including all relevant storage and pipework systems plus removal of associated wastes from site.

<b>Table S1.2 Operating techniques<sup>(1)</sup></b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/NP3636FS/A001	Responses to Parts B3 section 3 of the application form and referenced supporting documentation of the application form and referenced supporting documentation.	03/01/2013
Application EPR/NP3636FS/A001	Odour management plan reference Odour Management Plan for North Moor Pig Farm and Noise management plan reference Noise Management Plan for North Moor Pig Farm in response to Part B3 section 3b, Table 3b – General Requirements of the application form.	03/01/2013
Request for Information dated 25/01/2013	Response to Request for Information confirming pig numbers, feed storage and slurry storage.	29/01/2013
Request for Information dated 25/01/2013	Response to Request for Information confirming site closure plan.	31/01/2013
Request for Information dated 26/02/2013	Response to Request for Information confirming site boundary.	27/02/2013
Request for Information dated 28/02/2013	Technical Standards reference Document 11 Technical Standards in response to Part B3 section 3a – Technical Standards on the application form.	28/02/2013
Additional information received	Information confirming feed bins, permit boundary, ventilation and pig numbers.	25/03/2013

<b>Table S1.2 Operating techniques<sup>(1)</sup></b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/NP3636FS/V003	Application form and supporting documents.	22/01/2015
Variation application EPR/NP3636FS/V003	Responses to Parts C3.5 of the application form and referenced supporting documentation.	18/01/2018
Additional information requested 08/03/2018	<p>Responses to Request for Further Information including clarification of measures to control odour from the acidification of slurry system, ventilation, site drainage, fuel and chemical storage, noise management plan and document 22 pig number spreadsheet.</p> <p>Receipt of revised documents:</p> <p>Document 3 H1 Environmental Risk Assessment updated 15/03/2018</p> <p>Document 6 Site Plan updated 15/03/2018</p> <p>Document 7 Site Drainage Plan updated 15/03/2018</p> <p>Document 10 Odour Management Plan updated 15/03/2018</p> <p>Document 11 Noise Management Plan updated 15/03/2018</p> <p>Document 18 Dust and Bioaerosol Management Plan updated 15/03/2018</p> <p>Document 22 Environment Agency spreadsheet updated 15/03/2018</p> <p>Document 23 Yard Water Drainage Plan updated 15/03/2018</p>	15/03/2018
Additional information requested 02/03/18, 12/03/18 and 15/03/18 for application EPR/JP3437CW/V003 (Somerby Top Pig Farm)	Response to Request for Further Information clarifying emergency shower drainage and location, submitted for application EPR/JP3437CW/V003 (Somerby Top Pig Farm), but applicable to this application.	16/03/18
Additional information requested 15/03/18 for application EPR/JP3437CW/V003 (Somerby Top Pig Farm)	Response to Request for Further Information clarifying the pig housing slurry systems, submitted for application EPR/JP3437CW/V003 (Somerby Top Pig Farm), but applicable to this application.	16/03/18
Additional information requested 05/04/18	<p>Response to request for information clarifying site drainage, ventilation, housing and slurry acidification.</p> <p>Receipt of revised documents:</p> <p>Document 6 Site Plan updated 10/04/2018</p> <p>Document 7 Site Drainage Plan updated 10/04/2018</p>	10/04/18
Additional information requested 20/04/18	Response to Request for Further Information clarifying boreholes within the installation boundary.	20/04/18

(1) Where there is any contradiction or divergence between the operating techniques described in the documentation above then Condition 2.3.1 shall apply to the operating techniques detailed in the documentation received on the most recent date.

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	<p>A written plan shall be submitted to the Environment Agency for approval detailing proposals for replacing or covering existing uncovered slurry stores and lagoons to comply with the requirements of S3.2 of SGN How to Comply – Intensive Farming. The proposals shall include a timetable for the replacement and refurbishment work. 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>	Removed based on compliance by means of slurry acidification (BAT 16c of the 2017 BAT conclusions for the intensive rearing of poultry or pigs).

<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO1	Installation of the infrastructure linked to the new acidification of slurry system including slurry pipework	<p>At least 4 weeks before the sulphuric acid infrastructure is installed on the installation, the operator shall submit a written plan to the Environment Agency for approval detailing the following information to minimise the risk of sulphuric acid run-off to ground or surface water from the emergency shower:</p> <ul style="list-style-type: none"> <li>• Final location of the emergency shower confirmed on an updated site drainage plan</li> <li>• Operating techniques in place for usage of the shower in a manner to minimise run-off of any sulphuric acid including operating practices and containment facilities.</li> </ul> <p>The written plan shall be approved in writing by the Environment Agency prior to the installation of infrastructure linked to the new acidification of slurry system.</p>
PO2	Installation of the infrastructure linked to the new acidification of slurry system including slurry pipework	<p>At least 4 weeks before commencement of installation of the slurry acidification infrastructure on the installation, the operator shall submit a written plan to the Environment Agency for approval, detailing the following information to minimise the risk of entry of slurry and/or sulphuric acid into groundwater and of land contamination specifically, in light of all relevant groundwater boreholes within the installation boundary:</p>



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

Reference	Operation	Pre-operational measures
		<ul style="list-style-type: none"> <li>• Operating techniques to contain fugitive emissions from the slurry acidification system including:                             <ul style="list-style-type: none"> <li>○ An updated risk assessment which takes into account the presence of boreholes within the installation boundary. This should incorporate details of appropriate mitigation measures proposed to minimise the risk of pollution to groundwater from the slurry acidification system; including, but not limited to, the design and specification of pipework, leak detection systems and containment facilities</li> <li>○ Details of maintenance and monitoring techniques to minimize risk of groundwater and land contamination from slurry acidification system fugitive emissions, including a description of relevant checks that will be carried out, the frequency of these checks to ensure facilities remain effective, and the appropriate record keeping to demonstrate that checks have been completed</li> </ul> </li> </ul> <p>The written plan shall be approved in writing by the Environment Agency prior to commencement of the installation of infrastructure linked to the new acidification of slurry system. The Environment Agency expects operators to adopt appropriate engineering standards, and best available techniques (BAT) should be applied to the design of storage and transmission facilities, such as tanks, lagoons and pipework. This is to ensure that hazardous substances are prevented from being released to the environment and the input of non-hazardous pollutants to groundwater is limited so as to not cause pollution, taking into account the nature and volume of materials stored and the sensitivity of the groundwater.</p>

## 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
Roof fan outlets on pig houses 4 & 9 as shown on the site layout plan in Schedule 7	Pig houses 4 & 9	---	---	---	---	---
Side outlets on pig houses 5 - 8 as shown on the site layout plan in Schedule 7	Pig houses 5 - 8	---	---	---	---	---
Side and gable end outlets (Yorkshire Boarding, natural ventilation) on pig houses 1 - 3 as shown on the site layout plan in Schedule 7	Pig houses 1 - 3	---	---	---	---	---
Vent from Kerosene tank and Diesel tank as shown on the revised site layout plan reference 'Document 6 – Site Plan' received 10/04/18 in support of application EPR/NP3636FS/V003	Kerosene tank & Diesel tank	---	---	---	---	---
Vent from sulphuric acid tank as shown on the site layout plan in schedule 7	Sulphuric acid tank	---	---	---	---	---
Vent from mixing tank as shown on the site layout plan in schedule 7	Mixing tank	---	---	---	---	---

**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
Soakaways as shown on the site drainage plan reference 'Document 7 –Site Drainage Plan' received 15/03/18 in support of application EPR/NP3636FS/V003	Roof water from pig houses 1 & 2 and 5-9 and yard surface water (excluding all times yards are contaminated e.g. cleaning out periods)	---	---	---	---	---
Outlet to surface water (unnamed tributary of 'The Dale') immediately west of installation boundary as indicated on the site drainage plan reference 'Document 7 –Site Drainage Plan'	Roof water from pig houses 3 & 4 and yard surface water (excluding all times yards are contaminated e.g. cleaning out periods)	---	---	---	---	---

**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	Other specifications
Weaners (pigs up to 30kg) in houses 6-8	kg N excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total nitrogen content	
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total phosphorus content	
Weaners (pigs up to 30kg) in houses 6-8	kg NH <sub>3</sub> /animal place/year	From 21/02/2021 0.53 kg NH <sub>3</sub> /animal place/year	Annually	Estimation using emission factors	

<b>Table S3.3 Process monitoring requirements</b>					
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Monitoring frequency (1)</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Fattening Pigs (production pigs over 30kg) in houses 3 & 8	kg N excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total nitrogen content	
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	From 21/02/2021 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 Estimation by using manure analysis for total phosphorus content	
Fattening Pigs (production pigs over 30kg) in house 8	kg NH <sub>3</sub> /animal place/year	From 21/02/2021 2.6 kg NH <sub>3</sub> /animal place/year	Annually	As above	
Fattening Pigs (production pigs over 30kg) in house 3	kg NH <sub>3</sub> /animal place/year	From 21/02/2021 5.65 kg NH <sub>3</sub> /animal place/year	Annually	As above	
Farrowing sows (including suckling piglets) in houses 4 & 5	kg N excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total nitrogen content	
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total phosphorus content	
Farrowing sows (including suckling piglets) in houses 4 & 5	kg NH <sub>3</sub> /animal place/year	From 21/02/2021 5.6 kg NH <sub>3</sub> /animal place/year	Annually	As above	

<b>Table S3.3 Process monitoring requirements</b>					
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Monitoring frequency (1)</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Mating and gestating sows in houses 1, 2 and 9	kg N excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total nitrogen content	
	kg P <sub>2</sub> O <sub>5</sub> excreted/animal place/year	From 21/02/2021 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 or Estimation by using manure analysis for total phosphorus content	
Mating and gestating sows in houses 1, 2 and 9	kg NH <sub>3</sub> /animal place/year	From 21/02/2021 5.2 kg NH <sub>3</sub> /animal place/year	Annually	As above	
Weaners, Fattening Pigs, Farrowing sows (including suckling piglets) and Mating and gestating sows in houses 1-9	Dust	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.

<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	01/05/18
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	01/05/18
Dust atmospheric mass emission	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	01/05/18

## 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	

**(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**

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.	
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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.

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

“pests” means Birds, Vermin and Insects.

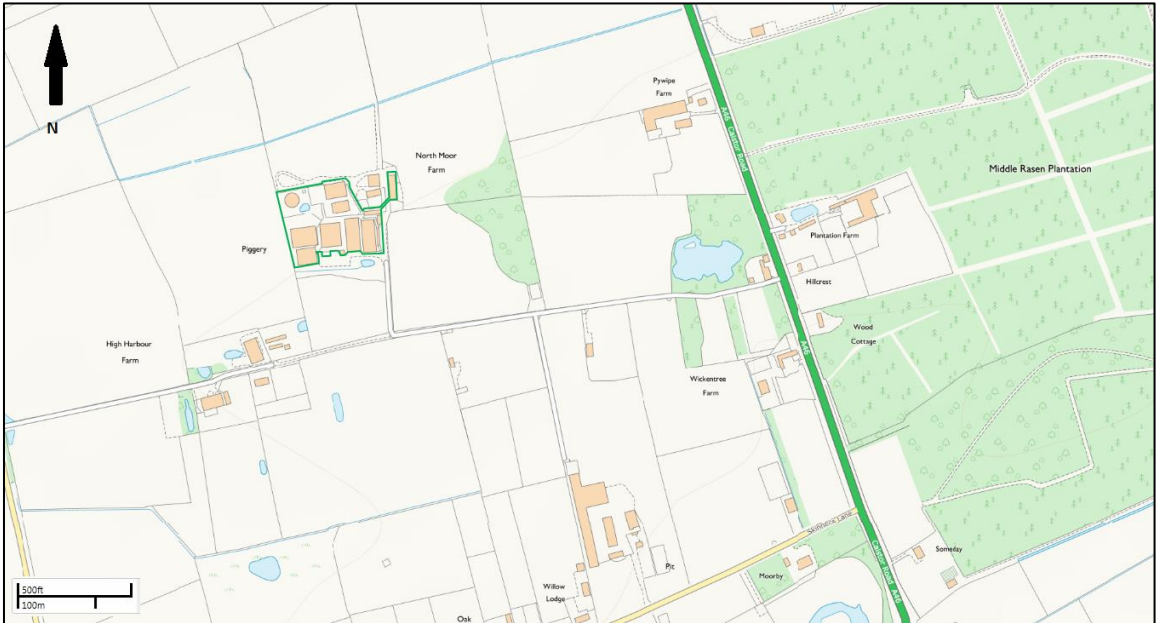
‘Waste code’ means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

“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



END OF PERMIT