

## **Dust Management Plan**

Crockway Farm – Upper and Lower  
Long Ash Lane  
Nr Frampton  
Dorchester  
Dorset  
DT2 9NW

Permit Number: ERP/YP3136ZQ

Grid Reference:  
Upper Unit: 361859, 096291  
Lower Unit: 361437, 096106

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## 1. Introduction

This bespoke DMP is a live management plan prepared to support the overall Environmental Management System in place at Crockway Farm and required as part of permitting the site under EPR/YP3136ZQ. The overriding principle of the DMP is to ensure the day-to-day activities are carried out in accordance with this document to help minimise the overall environmental impact. The site has two sensitive receptors within 100 meters of the permit boundary and a number of properties to the south within 400 meters of the permit boundary, therefore a high level DMP has been completed.

As with any livestock farm there is a risk of dust from site operations.

Dust emissions will, in the main, also contribute to the minimisation of ammonia emissions and are summarised in the following tables.

This plan will be reviewed in the event of any building and management changes and on the outcome of investigations into the causes of any future dust complaints should these occur. All management plans will be reviewed at least every year if there are no changes on site.

Any dust complaints will be recorded and investigated using the Dust Complaint Report Form contained within Technical Guidance Note IPPC SRG 6.02 (Farming) Noise Management at Intensive Livestock Installations.

This plan is completed The Farm Consultancy Group with relevant and site-specific information provided by Michael Rolston, area manager for the operator.

## 2. Installation Background

Crockway Farm pig unit will have a capacity for 4106 sows, 1750 production pig places over 30kg which are the unserved gilts and 8000 pigs below 30kg. The farm will operate as a nursery unit and pigs will be moved off farm for finishing.

Crockway farm was historically a mixed unit of both nursery and finishing pigs but the plan is to convert the farm to sole nursery unit for biosecurity, performance and management reasons.

All pig buildings will operate on a fully slatted flooring system with frequent slurry removal. Removal of slurry at least every 12 weeks and all buildings have pits below 800 mm in depth.

Slurry is piped to the on-site slurry tanks. Tank 1 is covered with LECA balls and the newly installed two larger concrete tanks are covered with a rigid dome cover to reduce emissions and stop rainwater.

Clean roof water from the buildings is piped off farm as per the site plans.

Dry feed is used, with an automatic feeding system and the diet is formulated to match the growth stage of the pigs. To comply with the new BAT AELs crude protein in the diet has been reduced against the industry standard when the emission factors were originally granted.

Water consumption is monitored, the current water system are nipple drinkers, the on-site borehole is the main water source for the unit, mains can be used as a backup. An 800kW biomass boiler has been installed at the lower unit to provide heating to the pig buildings, this will use virgin timber.

Deadstock are collected in lockable bins ready for collection by a licenced deadstock collection service. Records of this are kept in the farm office. Dust is reduced by keeping the yards and pens as clean as possible as per this Management plan.

### **3. BAT Summary**

BAT 11 – where applicable the unit has used the following techniques to comply with BAT 11:

- Ad lib feeding
- Dust separators used in feed system

#### 4. Sensitive Receptors

The site has two sensitive receptors within 100 meters of the permit boundary and a number of properties to the south within 400 meters of the permit boundary, identified below:

Receptor	Direction	Distance from permit boundary	Co ordinates	Description
A	South	35	361388, 096020	Woodside – Business
B	South	114	361348, 095942	Stables and other residential properties to the south (middle)
C	South	139	361426, 095873	Whiteacre and other residential proeries to the south (eastern side)
D	East	401	362394, 096876	Gardon Cottage – Residential
E	South	94	361305, 095976	The Flats and other residential properties to the south (west side)
F	South East	341	361728, 095774	The Plot – residential

Potential dust sources include feed delivery and storage, pig feeding, stock and housing, ventilation, site infrastructure, Biomass boiler. The site has never received a complaint relating to dust.

Plan showing nearest sensitive receptors to the site is outlined below:



## 1. Preventative measure / on site Dust control measures

Measures that help minimise dust impact off-site are summarised in the following table. This plan will be reviewed at least every year or in light of any building and management changes, and on the outcome of investigations into the causes of any future dust complaints, if any occur.

Any dust complaints will be recorded and investigated immediately using the Complaint Report Form contained at the end of this document.

The responsibility for the management actions from this plan fall to the farm manager and will be jointly reviewed by the operator and The Farm Consultancy Group. An annual review will be carried out or immediately following a substantiated complaint.

Scale for ranking dust intensity:

0- Little dust difficult to detect

5 – a lot of dust likely to cause a nuisance if for sustained periods.

As dust and odour production are closely linked the below table identifies measures on site that not only reduce dust specifically but also help to reduce odour and therefore as a by product dust is also reduced.

Dust source/ Issue	Assessment of Potential Risks and Problems	Actions taken to prevent or minimise the risk of dust
Feed Delivery and storage	<ul style="list-style-type: none"> <li>• Spillages of feed during delivery and storage</li> <li>• Creation of dust during delivery</li> <li>• Dust from feed silos</li> <li>• Storage of feed</li> <li>• Fat content</li> <li>• Feeding method</li> </ul>	<ul style="list-style-type: none"> <li>• Feed delivery systems are sealed to minimise atmospheric dust, dust captures used.</li> <li>• Any spillages will be cleared up immediately by farm staff and if fit for consumption will be placed in spare plastic feed bags and fed back to the pigs. Any spillages unfit for consumption will be cleared into skips immediately and removed from site by licenced waste contractors within 24hrs</li> <li>• Spillages over 1000 kg – farm staff will notify the feed delivery company immediately who will be required to send a vehicle out to clear and remove all split feeds within 24 hours.</li> <li>• Feed tanks and pipework checked by farm staff as part of an annual check on condition. Records of this are kept in the farm office.</li> <li>• Any damage to feed pipework or silos when identified by farm staff is to be repaired immediately if it is likely to cause pollution and or odour and dust. If damage is not presenting immediate risk (e.g damage to protective bollards which will not cause leaks) will be reported to the farm manager within 8 hours who will record work to be</li> </ul>

		carried out in the maintenance plan and then contact the suitably qualified contractor within 24 hours.
Carcass Storage and disposal	<ul style="list-style-type: none"> <li>• Potentially increased odour and dust occurrence in hot windy weather.</li> <li>• Dust caused from incinerator exhaust</li> </ul>	<ul style="list-style-type: none"> <li>• Covered deadstock bin and emptied at least once per week. This is locked at all times and although located on the bottom of the lower unit is shielded from the sensitive receptors by trees and scrubs.</li> </ul>
Pig Housing and ventilation	<ul style="list-style-type: none"> <li>• Dust and odour from building design and maintenance</li> <li>• Building clear out</li> <li>• Dust from pigs</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• All pigs checked twice daily by farm staff to monitor health, any signs of disease are treated as required and where necessary identified pig is moved to hospital accommodation, for closer monitoring.</li> <li>• All pens and buildings cleaned out between batches of pigs and farrowing stages. Pressure washer and disinfectant used as part of biosecurity measures.</li> <li>• Potentially odorous spillages (feed ingredients, manure/slurry etc.) cleaned up immediately.</li> <li>• Stocking density maintained at or below levels set out in Welfare Regulations</li> <li>• Feeders are constructed to minimise waste, nipple drinkers are used to reduce water wastage instead of water troughs.</li> <li>• Buildings are well maintained with an annual maintenance checklist carried out by the farm manager, records of which are available in the office. Area identified as needing repair are notified to a qualified repairs contractor to be carried out within 3 months or immediately if pollution risk identified.</li> <li>• Temperature is computer controlled with daily monitoring carried out by farm staff.</li> <li>• Building design and specification as per recognised industry specification matching that of other permitted sites.</li> <li>• Computer controlled ventilation system, ventilation design based on recommendations from qualified building industry experts. Maintained as per manufactures specification by outside contractors.</li> </ul>
Manufacture and selection of	<ul style="list-style-type: none"> <li>• Poor Quality and odorous ingredients</li> </ul>	<ul style="list-style-type: none"> <li>• On-site milling or mixing, location upper unit furthest away from sensitive</li> </ul>



<p>compound foods</p>	<ul style="list-style-type: none"> <li>• Feeds which are unbalanced in nutrients, leading to increased excretion and higher emissions of odorous compounds</li> <li>• Changes in feed composition resulting in poor growth rates and limits in digestion.</li> <li>• On site mill and mix</li> </ul>	<p>receptors. All feed is delivered via specifically designed lorries.</p> <ul style="list-style-type: none"> <li>• Only approved raw materials are used in production. Finely ground feed avoided where possible.</li> <li>• Feed sample for every load is taken by farm staff and kept in a sealed bag for a minimum of three months in the farm office.</li> <li>• Feed composition is closely matched to pigs requirement, especially protein. this minimises water consumption and urine excretion and helps to minimise slurry moisture content.</li> <li>• Rations are reviewed annually by a suitably qualified nutritionist who will provide recommendations to the operator. The operator is not obliged to follow these recommendations if they are not legal or regulatory requirements.</li> </ul>
<p>Dirty open yard areas</p>	<ul style="list-style-type: none"> <li>• Pig movements between buildings resulting in dirty yard areas</li> <li>• Dirty areas allowed to pond and stagnate producing and dust if allowed to dry</li> </ul>	<ul style="list-style-type: none"> <li>• Minimised pig movements between buildings.</li> <li>• Buildings designed to ensure all slurry is unable to escape the enclosed building.</li> <li>• Loading bays are located directly outside each building to minimise potential dirty yarded area. Once pig loading has been completed farm staff will pressure wash the area clean within 6 hours.</li> <li>• Loading bays have ramped concrete to channel all dirty water back into the slurry storage under the slats.</li> <li>• Concrete yard areas and loading bays are well maintained with an annual maintenance checklist carried out by the farm manager, records of which are available in the office. Area identified as needing repair are notified to a qualified repairs contractor to be carried out within 3 months or immediately if pollution risk identified. The scope of such work would include laying of new concrete, patching up existing cracks if they are deemed by the farm manager to undermine the integrity of the concrete.</li> <li>• Site drainage designed to keep clean uncontaminated water separate from dirty water and slurry with the use of kerbing and the on-site management</li> </ul>

		which only means the loading bays are areas that could become dirty.
Biomass boiler	<ul style="list-style-type: none"> <li>• Dust from ash</li> <li>• Build up of dry fuel materials</li> <li>• Inefficient burning resulting in unacceptable levels of dust and smoke</li> </ul>	<ul style="list-style-type: none"> <li>• Biomass boiler is serviced quarterly as per the manufacturers specification by a suitably qualified engineer</li> <li>• Approved wood chip only used for fuel</li> <li>• Daily checks carried out to ensure operating to acceptable parameters. If faults identified these are reported to the farm manager immediately and an engineer is called out to address the issues.</li> <li>• Standby oil boiler in place to operate should the biomass boiler need to be shut down or not operational.</li> </ul>
Fugitive emissions	<ul style="list-style-type: none"> <li>• Deadstock bins</li> <li>• Slurry removal</li> <li>• Feed Delivery and feed bins</li> </ul>	<ul style="list-style-type: none"> <li>• Deadstock bins located at the lower unit- but shielded from sensitive receptors by trees and scrubs.</li> <li>• Slurry storage is located between the two units and further than 400 meters from the nearest receptors. Slurry stores and all covered.</li> <li>• Anticyclones are fitted to all feed silos and monitored as part of annual maintenance checklist carried out by the farm manager.</li> <li>• Prevailing wind direction is south west and the majority of the closest sensitive receptors are south, south east.</li> <li>• High velocity roof fans</li> </ul>

## Key Responsibilities

Task	Staff Position Responsible	Comments
Dust monitoring	<ul style="list-style-type: none"> <li>• Farm Manager (pig stockman to cover holiday and illness)</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Annual review of dust results or sooner following substantiated complaints</li> </ul>
Overseeing/ monitoring feed deliveries / feed storage and spillages	<ul style="list-style-type: none"> <li>• Farm Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Major spillages reported to permit operator if caused pollution incident</li> </ul>
Ventilation and heating system	<ul style="list-style-type: none"> <li>• Stockman and Farm Manager</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible for day to day adjustments</li> <li>• Responsible for design, selection and upgrade of system.</li> </ul>
Stock inspections	<ul style="list-style-type: none"> <li>• Stockman</li> </ul>	<ul style="list-style-type: none"> <li>• All stock inspected twice a day and any issues are recorded.</li> </ul>

Drinking water systems	<ul style="list-style-type: none"> <li>• Stockman</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible for day to day adjustments</li> <li>• Responsible for design, selection and upgrade of system.</li> </ul>
Slurry removal and house washing	<ul style="list-style-type: none"> <li>• Farm Manager</li> <li>• Stockman</li> </ul>	<ul style="list-style-type: none"> <li>• Farm manager responsible for timing of slurry removal.</li> <li>• Farm manager responsible for washout plan.</li> <li>• Stockman will operate machinery day to day</li> </ul>
Carcass Disposal	<ul style="list-style-type: none"> <li>• Farm Manager</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible for day to day adjustments</li> <li>• Responsible for design, selection and upgrade of incineration system.</li> </ul>
Drainage System	<ul style="list-style-type: none"> <li>• Farm Manager</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible for day to day adjustments</li> <li>• Responsible for design, selection and upgrade of drainage system.</li> </ul>
Reviewing annual plans	<ul style="list-style-type: none"> <li>• Permit operator</li> </ul>	
Documenting / reviewing abnormal events	<ul style="list-style-type: none"> <li>• Farm Manager</li> <li>• Permit operator</li> </ul>	<ul style="list-style-type: none"> <li>• Documenting</li> <li>• Reviewing</li> </ul>
Complaints Log	<ul style="list-style-type: none"> <li>• Farm Manager</li> </ul>	

## 7. Contingency Measures

The below table identifies what happens if the day to day management of the farm has failed to control dust. This occurs when dust complaints have been substantiated.

<b>Dust Contingency</b>			
<b>Source</b>	<b>Potential Cause</b>	<b>Primary Mitigation Measure</b>	<b>Secondary Mitigation Measure</b>
Feed Delivery and Storage	Failure of pipe coupling to feed silo creating a leak or spillage	<p><b>Trigger Point</b> Spillage occurs</p> <p><b>Mitigation</b> Any spillages will be cleared up immediately by farm staff and if fit for consumption will be placed in spare plastic feed bags and fed back to the pigs. Any spillages unfit for consumption will be cleared into skips immediately and removed</p>	<p><b>Trigger point</b> Unable to clear spill quickly and at risk of rain soaking and /or contaminating watercourse.</p> <p><b>Mitigation</b> Farm workers to build a temporary bund around the spill with straw Farm manager to contact specialist removal contractor immediately</p>

		<p>from site by licenced waste contractors within 24hrs          Spillages over 1000 kg – farm staff will notify the feed delivery company immediately who will be required to send a vehicle out to clear and remove all split feeds within 8 hours.</p> <p><b>Cessation of Action</b>          No spillage remains and any waste generated by the spill has been removed from site by specialist contractor.</p>	<p><b>Cessation of Action</b>          No spillage remains and any waste generated by the spill has been removed from site by specialist contractor.</p>
Feed Delivery and Storage	Failure feed bins	<p><b>Trigger Point</b>          Spillage occurs</p> <p><b>Mitigation</b>          Any spillages with be cleared up immediately by farm staff and if fit for consumption will be placed in spare plastic feed bags and fed back to the pigs. Any spillages unfit for consumption will be cleared into skips immediately and removed from site by licenced waste contractors within 24hrs          Spillages over 1000 kg – farm staff will notify the feed delivery company immediately who will be required to send a vehicle out to clear and remove all split feeds within 24 hours.          Farm manager to order replacement feed bin immediately.</p> <p><b>Cessation of Action</b>          No spillage remains and any waste generated by the spill has been removed from site by specialist contractor. Feed bin has been replaced and in working order.</p>	<p><b>Trigger point</b>          Unable to clear spill quickly and at risk of rain soaking and /or contaminating watercourse. Replacement feed bin not currently on site to allow normal feeding protocol to continue.</p> <p><b>Mitigation</b>          Farm workers to build a temporary bund around the spill with straw and cover spill with straw/soil.          Farm manager to contact specialist removal contractor immediately          Farm manager to reduce normal feed order and order more often to enable the farm to operate with one bin less.</p> <p><b>Cessation of Action</b>          No spillage remains and any waste generated by the spill has been removed from site by specialist contractor.          Feed bin on site and installed by qualified contractor.</p>

Pig Housing and ventilation	Failure of the Ventilation System meaning natural ventilation used	<p><b>Trigger Point</b> Alarm and/or inspection has identified a major ventilation system failure which is not related to power supply (i.e. not resolved by back-up power generation)</p> <p><b>Mitigation</b> Farm Manager to contract the repairs contractor to repair immediately.</p> <p><b>Cessation of Action</b> Ventilation system is restored</p>	<p><b>Trigger Point</b></p> <ul style="list-style-type: none"> <li>Unable to restore ventilation to house within 72 hours.</li> </ul> <p><b>Mitigation</b> Arrange for removal of stock from house and transfer to alternative house, farm or slaughter. Action is within 72 hours (pig health as well as dust and odour factors are paramount)</p> <p><b>Cessation of Action</b> House is empty, slurry removed cleaning completed. Ventilation system is repaired and functioning.</p>
Pig Housing and ventilation	Unable to complete wash out and disinfectant of sheds due to washer breakdown.	<p><b>Trigger Point</b> On site pressure washers fail</p> <p><b>Mitigation</b> Farm manager to call contractor immediately to repair pressure washers. Spare washers kept on farm to be used to allow washing to continue.</p> <p><b>Cessation of action</b> Contractor has been and repaired the pressure washer within 48hrs.</p>	<p><b>Trigger Point</b> Pressure washer fails and repairs contractor cannot repair within 48hours</p> <p><b>Mitigation</b> Farm Manger to contact washing contractors to complete shed washing and disinfecting. If machine is not repairable, purchase a new washer before sheds need to be washed again.</p> <p><b>Cessation of action</b> Pressure washer repaired or new pressure washer purchased.</p>
Biomass boiler	Falt detected with boiler and not burning efficiently	<p><b>Trigger Point</b> Fault detected or excess ash created</p> <p><b>Mitigation</b> Farm Manger to call contract engineer out immediately to repair and operate standby oil boiler.</p> <p><b>Cessation of action</b></p>	<p><b>Trigger Point</b> Engineer cannot visit and repair within 48 hours</p> <p><b>Mitigation</b> Contact another qualified contractor to come out and repair within 48 hours</p> <p><b>Cessation of action</b></p>

		Contract arrived within 48 hours and all faults fixed	Second contractor arrives on site and biomass boiler is repaired within 48 hrs
Feed Quality	Poor quality / condition of feed at delivery (e.g. excessive fines/dust or damp) creating blockages that could result in feed spoiling and creating dust from silos or feeders. Or general increase in dust creation from fine particles.	<p><b>Trigger Point</b> Blocked feed system is identified during or after delivery or excessive dust.</p> <p><b>Mitigation Techniques &amp; Speed of Response</b> Immediately isolate the system and notify feed mill to make immediate collection and replacement from silo if appropriate. Temporarily use bagged feed transferred from another silo if this is needed for stock welfare. Immediately dismantle and clear any part of the feed system at risk of block. Bag any feed to be disposed of in sealed plastic bags.</p> <p><b>Cessation of Action</b> Satisfactory feed delivered into cleared system and confirmed by visual inspection of bulk and sample.</p>	<p><b>Trigger Point</b> Unable to clear blocked silo/system</p> <p><b>Emergency Measure &amp; Speed of Response</b> Introduce a temporary mobile silo (tanker) to replace blocked system. Act within 2 days if problem has persisted and bagged feed is being used.</p> <p><b>Cessation of Action</b> Permanent feed system is back available for use.</p>

## Dust Report Form

Staff Member:	
Time & Date:	
Location:	
Temperature:	
Wind Strength	
Wind Direction	
Intensity	
Location Sensitivity (See below)	<b>0      1      2      3      4      5</b>
Is the source evident?	
Comments and observations	
Corrective actions taken	
Was the dust eliminated	

0	Not detectable
1	Remote (No housing, commercial/industrial premises or public area within 500m)
2	Low Sensitivity (No housing etc. within 100m of affected area)
3	Moderate sensitivity (Housing etc. within 100m of affected area)
4	High sensitivity (Housing etc. within area affected by dust)
5	Extra sensitive (complaints arising from residents within area affected by dust)

# Complaint - Actions and Outcome Record Sheet

## Complainant

Record name, or 'withheld' if requested but not given by complainant, or 'not supplied' if it was not requested by the person receiving the complaint.

Name of person	
Organisation name	
Address	
Telephone	
Email address	

## Complaint about and description

Odour	
Dust	
Noise	
Other	

## Nature and record of complaint



Product / Service / Action / Document / Other (describe):

Person who used / expected it:

Date used /expected:

Nature of deficiency:

**Complaint Number.....**

**Complaint handled by**

Name of person	
Role	
Received by	Letter / email / telephone / meeting
Date received	

**Action and issues being investigated**

[Record details of any other organization / external person involved, if applicable. Add more action rows if necessary.]

Action 1 (Description)	
Action by (name of person)	
Date by	
Action 2 (Description)	
Action by (name of person)	
Date by	
Action 3 (Description)	
Action by (name of person)	
Date by	

**Outcome**

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**Communicated to**

Date complainant notified	
Date any other parties notified	
Names of any other relevant parties (for each, state person and organization)	

**Keep a copy of this record and file it with any other documents associated with the complaint, actions taken and the out come**