

## AHDB Pork Model Template B3.5 8E Improvement Plan

### A completed example document for Illustrative Farm

**Farm name:** Illustrative Farm    **Operator:** Mr P Ffffff    **Permit number:** 1234

With reference to 'How to Comply' the following measures will be undertaken:

Area needing improvement	'How to Comply' reference	What needs to be done? Possible solutions	Proposed cost	Proposed timescale for completion	Timescale agreed with Environment Agency
Storage of agricultural fuel oil and other chemicals	3.2 Fugitive emissions	Replace steel diesel tank with plastic bund with locked cabinet and meter	£2,500	3 months	
Housing ventilation	3.2 Fugitive emissions	Put automated controls on the ventilation system in the dry sow house	£3,000	6 months	
Recording of energy and water use	1.4 Efficient use of raw materials	<ul style="list-style-type: none"> <li>• Put whole site onto real time monitoring with remote access</li> <li>• Install a second water meter on borehole</li> </ul>	£5,000	12 months	
Housing design and management review (BAT)	2.3 Operating techniques	I have reviewed existing housing against technical requirements in 'How to Comply' and have concluded that existing structures are BAT. Please refer to the Housing Review Appendix 7 in 'How to Comply' and see table appended.			

Drainage review	3.2 Fugitive emissions	<ul style="list-style-type: none"> <li>Nothing identified for Illustrative Farm</li> <li>See AHDB Pork Drainage Review Guidelines (see appended document).</li> </ul>	£5–20k		
Proposals for covering slurry store	3.2 Fugitive emissions	Cover with a leca, floating tent cover or fixed roof within three months of the permit being issued, subject to planning permission being granted (the latter is only required for tent covers)	£3,500		
Selection and use of feed	2.0 Operations	Intend to install a second feed bin and augers to allow a second finisher diet to be fed.	£5,000		

**Housing review: please use the following table**

See 'How to Comply' Appendix 7 – Undertaking a Housing Review

Area needing improvement	What needs to be done? Possible solutions	Proposed cost	Proposed timescale for completion	Timescale agreed with Environment Agency
<b>Building design changes</b>				
<b>Building management changes</b>				

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## Site drainage review

### Guidance: Pig and Poultry Farms

#### Introduction

The purpose of this guidance is to assist with the review of site drainage, which involves identifying the location and function of all drains so that the risk of pollution is minimised. You should inspect the drainage systems within and around the farm buildings and associated yards. Record any shortcomings as part of an action plan and make the improvements within a reasonable timescale, proportionate to the degree of risk. A good plan will demonstrate where discharges take place, that potential pollutants are contained and that effective steps have been taken to minimise the production of contaminated surface water.

#### Procedure

##### Step 1

Obtain a copy of an up-to-date site drainage plan for the site. Farms with an Environmental Permit (previously a Pollution Prevention and Control Permit or Waste Management License) will already have a site drainage plan. Guidance on preparing a Site Drainage Plan is contained in IPPC Intensive Agriculture (Pigs and Poultry) Factsheet 3 (available on the AHDB Pork website: [pork.ahdb.org.uk](http://pork.ahdb.org.uk)).

##### Step 2

Walk through each drainage system or pathway confirming the accuracy of the site drainage plan and check that:

1. The purpose of each drain or pathway has been correctly identified, eg clean drains, dirty drains, lightly contaminated yards etc.
2. Ensure all manholes, drain inlets, rodding points, catchpits, outfalls, etc. are included on the plan.
3. Nothing can enter clean drains that may cause surface water or groundwater pollution.
4. When desirable, the volume of clean yard and roof water entering the slurry storage systems is minimised.

Note: it is accepted that some dilution is required for successful slurry management.

5. Colour code with permanent paint, all manhole covers, drain inlets, etc. so that their function is clearly identifiable.
6. Ensure all diverter valves are clearly labelled.
7. If you are uncertain about any drain connections or paths, carry out an investigation. Further guidance is provided over the page.
8. Record any improvements that may be required, together with a timescale for the work to be completed.
9. Sign and date your review when completed.



Drain cover painted red with flow direction arrows

## Methodology

The Environment Agency normally use a Source – Pathway – Receptor methodology to determine how a pollutant may cause pollution, for example, leaking fuel oil transmitted via a drain to a ditch.

For this review it is recommended that you work from: Receptor – Pathway – Source; examples of each are given below.

Receptor	Pathway	Source*
River, stream or ditch	Drain	Buildings
Pond	Channel	Stores, eg chemical, feed, fertiliser, oil, etc.
Wetland	Reception pit	
Swale	Pipe (including feed pipes and augers)	Tank, eg fuel, feed, chemical, liquid fertiliser, etc.
Soak-away	Gutters and downspouts	Roofs
Adjoining land, eg grass, woods, etc.	Hose	Open yards
Slurry or dirty water pit, tank, lagoon or store	Yard	Wash-down areas
	Slurry separator or treatment plant	Wheel washes
	Pump	Yard taps
		Fields or other yards draining into the site
		Flooding

\*There may be other sources on your farm

Start at each Receptor in turn, work through the Pathways back to Source.

## Example

From a clean drain outfall in a ditch, work along drain paths, making certain all drain inlets, manholes etc. are shown on the plan. Downspouts and gutters should be intact if required. Inspection chambers or manhole covers, yard drain inlets, rodding eyes, etc. should be marked with permanent paint.

## Investigation

If it is not possible to confirm the route of a drain or any connections then you should investigate further. This may involve the use of drain rods, cameras or tracer dye. On no account use paint, oil or other pollutants to carry out checks. Fluorescent dye can be purchased from builders' or plumbers' merchants for this purpose. Before using dye, advise your local Environment Agency Environmental Pollution Officer and any neighbours who may become alarmed or concerned in the event of the dye reaching open waters.

## Further reading

Environment Agency IPPC Technical Guidance Note, Undertaking a site drainage review, Guidance for intensive pig and poultry farmers, February 2008. (Environment Agency: <http://bit.ly/1uJIEpW>)

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