

AHDB Pork Model Template B3.5 8A – Technical Standards

Farm name: Sheephouse Farm

Operator: Blanchard Enterprise

Permit number: UP3539UM

Schedule 1 activity or directly associated activity (DAA) description	Relevant technical guidance note
Section 6.9A (1) (a) (ii) Pig production	How to comply EPR 6.09 Version 2
Pig feed storage and preparation	<ul style="list-style-type: none"> • Selection and use of feed are in accordance with Sector Guidance Note (SGN) EPR6.09 ‘How to comply with your environmental permit for intensive farming’ • Feed is stored in purpose-built, covered, feed silos located next to the pig sheds. No milling and mixing of feed takes place at the farm. Dry feed is delivered to the farm by lorry from feed suppliers. Feed is blown, augured or pumped directly from the lorry into the relevant storage silos. Feed is piped from the silos to the sheds, minimising dust emissions. • There is no possibility of dust emissions around milling or mixing as no longer undertaken on farm. Areas around buildings are kept free from build-up of manure, slurry and spilt feed • Selection and use of feed are in accordance with SGN EPR6.09 ‘How to comply with your environmental permit for intensive farming’ • Protein and phosphorus levels in the rations are matched to the animals’ needs by providing at least two different feed formulations. A nutritionist is employed to regularly review and reformulate diets, to optimise production and minimise excretion of nutrients. Synthetic amino acids are used to ensure that the protein needs of the pigs are met, with the minimum amount of protein in the diet
Slurry and manure storage	<ul style="list-style-type: none"> • Manure and dirty water are stored on site All dirty water is gravity-fed from the pig housing to two fully covered underground concrete reception pits. • Slurry Lagoon to be remain in operation, this is covered by a crust and piped from the reception pit to the lagoon.

	<ul style="list-style-type: none"> • The base of the storage tanks and all parts of the drains and reception pits are impermeable and SSAFO compliant. • The farm is located within a Nitrate Vulnerable Zone (NVZ). The dirty slurry lagoon capacity is six months' production, including an allowance for rainwater. • Solid manure is scraped across short distance in yards to an impermeable concrete store. Liquid run-off (effluent) from the store is collected, meeting the requirements of SSAFO
Slurry spreading and manure management	<ul style="list-style-type: none"> • Slurry and manure are exported from the site. Records are kept of the arrangements in place when manure is exported from the site. Dirty water and manure are spread with our own equipment and in accordance with the Defra Code of Good Agricultural Practice and in accordance with a manure management plan We get written confirmation that the recipient will spread the dirty water and manure to land in accordance with the Defra Code of Good Agricultural Practice and that the spreading will be in accordance with a manure management plan for the receiving land if not spread by own staff. There are contingency arrangements in place, should the land become unavailable
Fuel, oils and chemical storage	<ul style="list-style-type: none"> • Fuel oil, oils, pesticides and veterinary medicines are all stored in bunded areas capable of retaining any spillage • Fuel oil for the standby generator and carcase incinerator is stored in a bunded tank that meets the requirements of SSAFO. The bund has a capacity of 110% of the oil tank. The bund base and walls are impermeable to oil and water, and designed to catch leaks from tank fittings (including the tanker connection point, site gauge and shut-off valve). The tank is not within 10 m of a watercourse. There are no yard drains, ditches or land drains within 10 m. The tank tap through which fuel oil can be discharged is within the bund. The tap is locked shut when not in use • There is a flexible delivery pipe permanently attached to the primary tank, which is fitted with a self-closing tap at the end. The hose and tap are locked inside the bund when not in use • The bottled gas tanks are protected from collision damage by guard rails
Housing	<ul style="list-style-type: none"> • Housing design and management is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming' • There is only straw based housing systems in use at the farm. Refer to the building inventory (page 5) for more detail • All buildings designed and operated to BAT.

	<ul style="list-style-type: none"> • The animal housing is portal frame with block penning. The housing is well insulated, where appropriate, and the sheds have a damp-proof course, which helps to reduce heat loss and condensation • All buildings and structures on site are maintained in good repair, in accordance with the management system. There is a programme of inspection and planned preventative maintenance for the housing and drainage. Floors and walls are kept clean. Any cracks and damaged areas of yards and walls are repaired • Drinkers and troughs have been designed to prevent leakage to minimise the amount of dirty water going to the slurry lagoon • The straw-based accommodation is a scrape-through system to prevent ponding or build-up of urine. Muck is scraped across the yard area to the manure storage area • Service checks are carried out on the ventilation system monthly, in accordance with the manufacturer's instructions
Drainage	<ul style="list-style-type: none"> • There are no direct or indirect releases to ground water • Refer to the Drainage Plan. A copy of the Drainage Plan is also kept with the Accident Management Plan • The clean water drainage systems are not contaminated. Dirty water is not allowed to enter surface water drains • Yard areas are kept visibly clean, drainage channels are kept clear and spilt feed and dust are cleaned up • Drainage from the animal housing and water from cleaning out is treated as dirty water and directed to the dirty water reception stores. Drainage from the yard area used regularly by pigs is scraped and directed to the dirty water stores • Roof water drainage from the animal housing is directed to rainwater harvesting tanks or soakaways. • Disinfectant footbaths are designed not to overflow. Used disinfectant is added to the dirty water
Livestock numbers and movements	<ul style="list-style-type: none"> • A system is in place to record the number of animals on the farm at any one time. Animal movements on and off the farm are also recorded; these records will be available for inspection.
Carcase incinerator	<ul style="list-style-type: none"> • Fallen stock is disposed of in accordance with the current Animal By-Products Regulations. Carcasses are incinerated on site in an incinerator approved by Animal Health. • The incinerator is inspected and serviced in accordance with the manufacturer's instructions
Pollution prevention measures	<ul style="list-style-type: none"> • All operations are assessed annually for opportunities to reduce pollution risk and implementation schedules developed as appropriate • All staff are trained in pollution risk identification, minimisation and emergency procedures for general site activity and activity relating to their work duties • There is an accident management plan in place, with a procedure to review incidents
Veterinary medicines and pest	<ul style="list-style-type: none"> • Pesticides and veterinary medicines are kept in a store capable of retaining spillage, resistant to fire, and are kept

control	dry, frost-free and secure. Vermin control chemicals are brought on site by a registered contractor for use as needed. Chemicals to control flies and other insect pests will be stored with agro-chemicals on the arable unit, if needed
Hazardous waste	<ul style="list-style-type: none"><li data-bbox="607 193 2143 295">• Veterinary waste is removed by the vet for safe disposal. Other hazardous waste, such as fluorescent light bulbs, waste oil, aerosols, etc. are removed by a licensed contractor with an adequate audit trail, meeting the requirements of the Environmental Permitting Regulations

Buildings inventory July 24

For location of buildings, refer to the Site Layout Plan (B3.5 5a)

Building name and ref on plan	No of places	Type of ventilation	Floor type	Slurry/manure management	Feed	Other
Finishing House (A-E)	1200 pigs above 30 kg per building (6000 total)	Computer controlled ventilation (ACNV).	Solid floor	Straw bedding, scraped passage	Dry feed	Fully insulated building
Weaner house	3600 pigs 7-30kg	Computer controlled ventilation (ACNV).	Solid floor	Straw bedding, scraped passage	Dry feed	Fully insulated building
Mill Mix building	Grinding of dry feed ingredients, mixing of feed, using both dry and liquid ingredients. Automated hammer mill 3 tph. See raw materials inventory in AHDB Pork Model Template B3.5 3c.					
Straw barn	Open sides, covered storage for bedding materials and equipment.					
Slurry lagoon	Covered lagoon with capacity for 4319 cubic meters					

Emissions

Table of emission points

Point Source emissions to air	
Emission point Ref. & Location	Source
Outlets from Naturally ventilated pig buildings as shown on site plan on Schedule 2 of the permit.	Finisher Houses A-E Weaner house Lairage Building
Chimney from carcass incinerator shown on site plan on Schedule 2 of the permit.	Carcass Incinerator
Vent from LPG tank as shown on site plan on Schedule 2 of the permit.	LPG Tank

Vent from oil tank as shown on the site plan in Schedule 2 of the permit	Diesel tank
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Point Source emissions to water (other than sewer) and land	
Emission point Ref. & Location	Source
Clean roof water from clean water reception pit directed to the piped culvert to the south west of the site as shown on the site plan in Schedule 2 of the permit. Emission Point 1	Roof water from finisher houses A-E Roof water from general storage shed. Roof water from Weaner Building.
Clean roof water from clean water reception pit directed to the piped culvert to the south west of the site as shown on the site plan in Schedule 2 of the permit. Emission Point 2	Roof water from straw shed
Clean roof water from clean water reception pit directed to the piped culvert to the south west of the site as shown on the site plan in Schedule 2 of the permit. Emission Point 3	Roof water from straw shed
Clean roof water from clean water reception pit directed to the piped culvert to the south west of the site as shown on the site plan in Schedule 2 of the permit. Emission Point 4	Roof water from straw shed
Clean yard water from west of sraw sheds to the south east of the site as shown on the site plan in Schedule 2 of the permit. Emission Point 5 to unnamed drain	Clean yard water

Point Source emissions to land	
Emission point Ref. & Location	Source
Clean yard area falls over land to grassed area between finisher buildings and weaner shed	Clean yard water

Odour

There are three neighbours (sensitive receptors) within 400 m of the farm and, therefore, an up-to-date Odour Management Plan is in place. This conforms with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming' and the H1 Environmental Risk Assessment 3.5 6a. There is no history of odour complaints resulting from current activities on the unit. All three sensitive receptors are dwellings owned by the operator and lived in by farm staff.

Noise

There are three neighbours (sensitive receptors) within 400 m of the farm and, therefore, an up-to-date Noise Management Plan is in place. This conforms to SGN EPR6.09 'How to comply with your environmental permit for intensive farming' and the H1 Environmental Risk Assessment.

There is no history of noise complaints resulting from current activities on the unit.

All three sensitive receptors are dwellings owned by the operator and lived in by staff.

Dust

There are three neighbours (sensitive receptors) within 400 m of the farm and, therefore, an up-to-date Noise Management Plan is in place. This conforms to SGN EPR6.09 'How to comply with your environmental permit for intensive farming' and the H1 Environmental Risk Assessment.

There is no history of noise complaints resulting from current activities on the unit.

All three sensitive receptors are dwellings owned by the operator and lived in by staff

Site operations and pollution prevention measures

1. Site operations (storage and use)	2. Substance	3. Relevant activity	4. Possible failure mechanism and potential for pollution	5. History/records or evidence of leaks of polluting substances to associated with the that could result in emissions to land, e.g. in hard standing, leaking or bund Detail any incidents of spills from the relevant This can be based on visual assessment during site walk or other records and data sources	6. Do pollution prevention measures exist for relevant activity? Yes/No	7. Provide details of pollution prevention measures To include: primary, e.g. tanks or pipework; secondary, e.g. bund hard standing and, where present, tertiary, e.g. oil interceptor	8. Testing and inspection of pollution prevention measures Note: If you are not able to supply all of this information at present, you may submit the details with your Accident Management Plan
Vehicle and machine fuel/ incinerator fuel	Fuel oil	Main storage	Failure of tank leading to spillage to land	None identified	Yes	Concrete base and bund containing tank and fill point Double valves locked when not in use Sight gauge enclosed by guard Complies with SSAFO Regulations	Tank, fittings and bund visually inspected monthly and following any notified spill
		Delivery by road tanker to installation and road tanker off-loading	Spillage from road tanker on installation yards entering clean drainage and hence soakaways Spillage from road tanker or delivery pipework to yard	None Evidence of minor spills on concrete. Concrete in good condition Area drains to slurry store	Yes	Delivery by supplier's vehicle. Oil tank located at edge of site to avoid unnecessary traffic past the pig buildings Tank and fixed pipework within bunded area Concrete hard standing Materials available to soak up minor spills Area drains to slurry store reception pit so containment provided	Concrete hard standing area visually inspected monthly Bunded area and tank visually inspected before each delivery
		Fuelling vehicles	Spillage on yard, overflowing tanks	As above	Yes	As above. Automatic closing trigger, locks on valves stored in bund when not in use Record kept of fuel use, regularly reviewed	As above
Incinerator fuel	Fuel oil	Fuel supply to incinerator	Failure of underground pipeline between the oil storage tank and incinerator leading to loss of fuel to land	None	Yes	Underground steel pipeline in plastic ducting	Burn time and fuel use logged and correlated Fuel line checked as part of annual service schedule

1. Site operations (storage and use)	2. Substance	3. Relevant activity	4. Possible failure mechanism and potential for pollution	5. History/records or visual evidence of leaks of potentially polluting substances to land associated with the activities that could result in ongoing emissions to land, e.g. in hard standing, leaking tank or bund Detail any incidents of pollution or spills from the relevant activity. This can be based on visual assessment during site walk over or other records and data sources	6. Do prevention measures for activity? Yes/No	7. Provide details of pollution prevention measures To include: primary, e.g. tanks or pipework; secondary, e.g. bund hard standing and, where present, tertiary, e.g. oil interceptor	8. Testing and inspection of pollution prevention measures Note: If you are not able to supply all of this information at present, you may submit the details with your Accident Management Plan
Feed	Nutrients: Phosphorus and nitrogen	Delivery to storage areas: dry bulk	Spillage, split or failed pipework, dust, failure of bins	None	Yes	Purpose-made dedicated stores	Pipework and bins regularly inspected to assess condition
	Dust	Delivery to storage areas: dry bagged	Spillage, split bags	None	Yes	Purpose-made dedicated stores	Regular inspection of facilities and equipment
		Distribution: all	Broken augers	None	Yes	Auger runs kept to minimum, mostly within buildings	Regular inspection of facilities and equipment
		Transfer from delivery tanker to storage: liquid bulk	Failure of pipework or tanks	None	Yes	Bunded tanks	Regular inspection of facilities and equipment
		Feed mixing and distribution: liquid	Failure of pipework or tanks overflowing troughs	None	Yes	Impermeable floors and hard standings Feed mixing area drains directly to slurry reception pit Overhead pipework routed through buildings with internal slurry storage or over yard area draining to slurry store	Regular inspection of facilities and equipment
Slurry	(Nutrients)	Storage slurry store	Structural failure	None	Yes	Dedicated purpose-built Regular monitoring of lagoon	Regular inspection

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		Transfer from storage to tanker	Reception pit overflow during agitation Leaking tanker	None	Yes	Above ground slurry store fitted with double gate valves All equipment regularly serviced	Regular inspection of facilities and equipment
		Road transport to field	Tanker failure, road accident	None	Yes	Purpose-made equipment, regularly maintained Fully trained operators	Regular inspection of facilities and equipment
		Field spreading	Surface run-off, drain contamination Over-application of plant nutrients	None	Yes	Spreading in accordance with Manure Management Plan and advice from qualified person	Regular soil testing
Manure	Nutrients: ammonia, nitrate, phosphate	Storage in Midden Road transport from midden to field heaps or spreading Field spreading	Midden failure Spreader/trailer failure, road accident Surface run-off, drain contamination Over-application of plant nutrients	None	Yes	Dedicated purpose-built facilities with impermeable base and perimeter channels Drainage to belowground reinforced concrete tank (installed 1995), complies with SSAFO Purpose-made equipment, regularly maintained Fully trained operators Spreading in accordance with Manure Management Plan and advice from qualified person	Regular inspection of facilities and equipment Regular inspection of facilities and equipment Regular soil testing

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Pesticides and biocides	List substances used	Delivery and transfer from vehicle to on-site storage Storage of pesticides Mixing of pesticides Application foot dip and wheel wash use Transfer of pesticide and biocide Disposal of waste packaging	Spillage, leaks, contamination of clean drains	None	Yes	Transfer directly from delivery vehicle to dedicated store Damaged or suspect packaging rejected at time of delivery Dedicated contained store to current specification Records kept Dedicated mixing area, impermeable base, drains to slurry store Trained staff with appropriate qualifications Relevant Codes of Practice followed Foot dips on good concrete, drains to slurry store or dirty water system Foot dips located where overflowing gutters will not dilute Wheel wash constructed from reinforced concrete with sealed joints Dedicated container, impermeable hard standing within bund Removed from site by licensed contractor Dedicated storage area Removal by licensed collector	Deliveries Regular inspection of facilities and equipment Full application records Regular inspection of storage area Records kept

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Incineration of non-SRM material: Ash	Fats and residues Trace elements, heavy metals, calcium, phosphate, dust	Incineration Transfer from incinerator Land spreading, etc. as per manure	Leaks, spillage, wind blow	None	Yes	Impermeable hard standing with liquid collection Transfer incinerator to barrow, ash sprayed with water before moved, added to midden and mixed into manure	SVS-approved activity, includes records and inspections
Dirty water/wash waters	Nutrients, pesticides, biocides	Wash waters from rearing units/yard/equipment Drainage from rearing units/yard Area below ground storage Above ground storage	See slurry				
Lightly contaminated surface waters	Ammonia, nitrates, phosphates, dusts and organic particles	Surface water drainage	Contamination of land, surface and ground waters	Yes to swale	Yes	Impermeable yards, and aprons, falls and gradients arranged to direct flow to swale Swale constructed in accordance with guidance in How to comply and in accordance with the groundwater regulations 1998	Hard standing inspected monthly, belowground drainage surveyed within two years and swale is inspected to ensure compliance with performance standards

Pest Management Plan

Carried out by third party qualified firm.

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