Appendix 5 Tranmere Sheds Technical Standards

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
Feed storage and preparation	• Selection and use of feed is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming' • Feed is stored in purpose built, covered feed bins and are located next to the pig sheds. Milling and mixing of the feed takes place off farm. Dry feed is delivered to the farm by lorry from the feed supplier for pigs and local Integrator, Soanes, for broilers. Feed is blown directly into the relevant feed bins and hoppers. • Feed storage bins are protected by barriers and marked with bright taping. • Protein and phosphorus levels in the rations are matched to the animal's needs. A record of the percentages of nutrient levels is kept. • A nutritionist is employed to review and reformulate diets in order to optimise production and minimise excretion of nutrients. Synthetic amino acids are used to ensure that the protein needs are met with the use of minimum amount of protein in the diet.

Slurry and manure storage	PIGS Manure and slurry are stored off site. The manure is stored on an arable midden. Slurry is stored under the slatted buildings (for 2 weeks) and then exported to a sealed bag off farm. . The slurry storage facilities conform to the technical measures detailed in the Control of Pollution (Silage, Slurry and Agriculture Fuel Oil) SAFFO) Regulations 2010. The base of the storage tank and all part of the drains and reception pits are impermeable. The slurry storage tank and reception pit are designed to BS5502, Part 50. The reception pit, that is automatically pumped in to the slurry bag and associated channels have the capacity to hold at least two days of slurry production, including rainwater. The farm is located within a Nitrate Vulnerable Zone (NVZ). The slurry storage bag used off farm has a capacity is 4 months production, including an allowance for rainwater. The slurry store is only agitated prior to emptying. Solid manure from the straw based accommodation is scraped across yards, twice weekly, to an arable midden. Liquid run-off (effluent) from the store is collected meeting the requirements of the Control of Pollution (Silage, Slurry and Agricultural Fuel Oil) (SAFFO) Regulations.

Slurry spreading and manure management	Slurry and manure are exported from the site. Records are kept of the arrangements in place when slurry is exported from the site. We have verbal confirmation that the recipient will spread the slurry and manure to land in accordance with the Code of Good Agricultural Practice and that the spreading will be in accordance with a manure management plan for the receiving land. There are contingency arrangements in place should the land become unavailable, such as other local farmers to take the muck and slurry and alternative muck pads and slurry stores available.
Fuel, oils and chemical storage	

	• Oils, pesticides, cleaning products, vermin control products and veterinary medicines are all stored in locked containers capable of retaining spillage • The bottled gas tanks are protected from collision damage by guard rails or cones • Fuel oil for the generator and incinerator are stored in a bunded tank that meets the requirements of SSAFO. • The base and walls are impermeable to oil and designed to catch leaks. The tank is located away from a water course.
Housing	PIGS • Housing design and management is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming' • There are both straw and slatted housing systems in use at the farm. Refer to the building inventory for more detail. • 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 or damaged walls are repaired as soon as possible. • The slat systems remain clean, and are washed out using disinfectant with every new batch of pigs. Slurry and urine tranfers quickly to the pits underneath. • Slurry is removed fortnightly from beneath the slats to the slurry store when there is sufficient space. This is transferred by slurry tanker and then moved into the slurry bag store as according to the manure management plan. • Drinkers and troughs have been designed to prevent leakage to minimise the amount of dirty water going into the slurry store

	• The straw based accommodation is a scrape through system to prevent ponding or build up or urine. Muck is transferred to two different storage sites off farm, using a forklift, and trailer where required. All operators are trained to use the forklift. • Service checks are carried out on the ventilation system monthly in accordance with the manufactures instructions. • The existing buildings range from 30 to one years old, however maintenance and upgrading has taken place recently and most elements have been assessed to BAT

Drainage	• 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. • Over 90% of roof water down spouts are directly drained in to permeable ground or soakaways • Yard areas are kept visibly clean, drainage channels are kept clear and split feed and dust are cleaned up wherever possible. • Drainage from the animal housing and water from cleaning out is treated as slurry. • Disinfectant footbaths are designed not to overflow. Used disinfectant is added to the slurry store or removed muck.
Livestock numbers and movements	• A system is in place to record to number of animals on the farm at any one time. Animal movements on and off the farm are also recorded and licences are gained for each movement.
Carcase disposal	• Fallen stock is disposed of in accordance with the current animal by products regulations. • Pig carcasses are stored in sealed bins which are collected by an animal waste disposal company – A Hughes and son.
Pollution prevention measures	• All operations will be assessed annually for opportunities to reduce pollution risk and implementation schedules developed as appropriate. • All staff will be trained in striving to identify pollution risk and minimise it accordingly. • There is an accident management plan in place with a procedure to review incidents.

	• Staff have been trained internally with regards to environmental issues.
Veterinary medicines and pest control	• Pesticides and veterinary medicines are kept in a store capable of retaining spillage. Fire extinguishers are kept in close proximity to store, and flammable goods are kept away from store. • They are kept dry, frost free and secure. • Vermin control is recorded and carried out periodically by a trained vermin controller. • The chemicals are brought on site by the registered contractor for use when needed, and purchased through a registered supplier when appropriate. • Chemicals to control flies and other insect pest are stored with agro-chemicals in store.
Hazardous waste	• Veterinary waste is removed by the vet for safe disposal

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Appendix 5a: Tranmere Sheds 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 visual evidence of leaks of potentially polluting substances to land associated with the activities that could result in ongoing emissions to land, eg cracking 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 pollution prevention measure exist for relevant activity? Yes/No	7. Provide details of pollution prevention measures To include: primary, eg tanks or pipework; secondary, eg bund or hard standing and, where present, tertiary, eg 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	Diesel oil for tractors Diesel for vans	Main storage	Failure of tank, leading to spillage to land.	None	Yes	Concrete base and plastic bund containing tank and fill point. Double valves locked when not in use. Sight gauge enclosed by guard. Complying with SSAFO.	Visually inspected monthly.
		Delivery by road tanker	Spillage from tanker on installation yards and entering clean drainage and soakaways	None	Yes	Delivery by supplier vehicle. Car taken when delivered and carried out by trained employees. Oil tank located at edge of site to avoid unnecessary traffic past the pig buildings.	Visual inspection.
		Road tanker off loading Fuelling mower	Spillage from road tanker or delivery pipework to yard. Spillage on yard, overflowing tanks.	None	Yes	Kerbed impermeable concrete hardstanding. Materials available to soak up minor spills.	

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						Sand and fire extinguishers available.	
Incinerator fuel	Fuel oil	Incinerator	Failure of underground pipeline between oil storage tank and incinerator, leading to loss of fuel to land	None	Yes	Underground steel pipeline in plastic ducting	Burn time and use logged and correlated. Fuel line check as part of annual service.
LPG	For back up heating broiler houses	Delivery storage distribution to houses	Leakages from tank or underground pipes	None	Yes	Valves locked when not in use to fill, pipes checked	Regular inspection of tanks, valves, pipework through to houses

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Feed	Nutrients (Protein, phosphorus, Nitrogen) Dust	Delivery of bulk feed to storage areas	Spillage, split or failed pipework, dust, failure of bins	None	Yes	Purpose made stores placed on concrete hardstanding. Delivery in suitable vehicles. Any spillage is swept up immediately. Sealed systems to minimise dust.	Pipework and bins regularly inspected to assess condition. Visual inspection for spillage.
		Distribution of bulk feed	Broken augers	None	Yes	Augers runs kept to minimum	Regular inspection of facilities and equipment.
		Delivery to storage areas (bagged)	Spillage, split bags	None	Yes	Purpose made stores	Regular inspection

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Muck	Nutrients: ammonia, nitrate, phosphate	Storage in house Road transport from houses to field heaps or spreading Field spreading	House failure Spreader/trailer failure, road accident Surface run off, drain contamination Over application of plant nutrients	None	Yes	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 soil nutrient testing

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Pesticides and biocides	Round up Kilco Viron S Schippers Products Viron	Delivery and transfer from vehicle to on site storage Storage of pesticides Mixing of pesticides Application Foot dip and wheel wash Transfer Disposal of waste packaging	Spillage, leaks, overflowing, contamination of clean drains	None	Yes	Transfer from delivery vehicles to store Damaged or suspect packaging rejected at time of delivery Dedicated container store Records kept Trained staff / Contractor Codes of practice followed Food dips on good concrete, close to dirty water/slurry system	Deliveries monitored Regular inspection of facilities and equipment Full application records Inspection of storage area Records kept

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Dirty water/wash waters	Nutrients – ammonia, nitrate, phosphate	Dirty water transfer from buildings to underground tanks during washing	Leaks to ground and land	None.	Yes	See slurry	
Lightly contaminated surface waters	Nutrients – ammonia, nitrates, phosphates, dusts and organic particles	Surface water drainage	Contamination of land, surface and ground waters	None	Yes	Impermeable yards	Hard standing inspected monthly, below ground drainage surveyed within two years