# **Environmental Risk Assessment**

Farm name: Tranmere FArm Operator: Mrs Emily Field-Corrigan Permit number: EPR/VP3036CR

Table 1 Assessment of odour risk

What do you do that can harm and what could be harmed?			Managing the risk		Assessing the risk	
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Odour from feed, delivery and storage	Neighbouring dwelling houses within 400 m of the installation	Air	Odour Management Plan in place  Feed delivery will be sealed to minimise atmospheric dust. Any spillage of feed around the bin is immediately cleaned up  The condition of feed bins is checked frequently so that any damage or leaks can be identified  All feed ingredients are stored in covered tanks	Unlikely	Odour annoyance	Not significant

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			The unit is relatively isolated so there is minimal risk of dust causing direct odour nuisance			
<ul> <li>Odour arising from problems with housing ventilation system</li> <li>Inadequate air movement in the house leading to high humidity and wet bedding</li> <li>Inadequate system design causing poor dispersal of odours</li> </ul>	Neighbouring dwelling houses within 400 m of the installation	Air	The ventilation system will be regularly adjusted according to the age and requirements of the pigs  The ventilation system will be designed to efficiently remove moisture from the house Buildings with higher ventilation rates will discharge exhaust air via roof vents for improved dispersal  Stocking density maintained at or below levels set out in welfare regulations	Unlikely	Odour annoyance	Not significant
Manure and slurry management:  Odours arising from poorly managed muck and slurry collection, removal and distribution  The use of insufficient or poor-quality straw  Spillage of water from drinking systems	Neighbouring dwelling houses within 400 m of the installation	Air	Controls on feed and ventilation (see above) help to maintain air quality  Additional controls include: Insulated walls and ceilings to prevent condensation	Unlikely	Odour annoyance	Not significant

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Disease and vice outbreaks			Regular maintenance and correct positioning to avoid overflow from feed and drinking systems			
			Concrete floors to prevent water ingress, and surfaces arranged to avoid build-up of stagnant water			
			Stocking density at optimal levels to prevent overcrowding			
			Pens and yards kept clean			
			Manure loaded directly to trailers for transport to muck stores, rather than being moved by scrapers across the yard			
			Dirty water collection systems enclosed and regularly emptied to avoid anaerobic conditions			
			Frequent removal of manure and slurry; wind direction observed			
			Slurry not agitated on removal and potentially odorous spillages cleaned up promptly			
Carcase disposal:  Inadequate storage of carcases on site	Neighbouring dwelling houses within 400 m of the installation	Air	Carcases are placed in sealed containers immediately after they are removed and are promptly disposed of.	Unlikely	Odour annoyance	Not significant

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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Buildings:  Cleaning and disinfection  Emptying slurry pits  Removal of manure	Neighbouring dwelling houses within 400 m of the installation	Air	Pens and yards kept clean  Manure loaded directly to trailers for transport to manure stores, rather than being moved by scrapers across the yard  Dirty water collection systems enclosed and regularly emptied, to avoid anaerobic conditions  Frequent removal of manure and slurry, wind direction observed  Slurry not agitated on removal unless absolutely necessary and potentially odorous spillages cleaned up promptly	Likely	Odour annoyance	Not significant if carefully managed
Odour arising from manure/slurry spreading	Neighbouring dwelling houses within 400 m of the installation	Air	As above  FYM mainly exported to other farms for use  Any that is land-spread is highlighted in the manure management plan and also follows NVZ rules  Intermittent activity only	Likely	Odour annoyance	Not significant if carefully managed

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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs, who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Odour arising from manure and slurry Storage – dirty tanks, slurry tank/lagoon FYM field heaps	Neighbouring dwelling houses within 400 m of the installation	Air	Site will operate under odour management plan  Feed selection to minimise excretion of nutrients  Storage areas (including field heaps) sited away from neighbours  Reduced surface area of aboveground store  Dirty water tank covered  Areas of open, dirty concrete minimised  Stores emptied regularly  Composting of manure	Likely	Odour annoyance	Not significant if carefully managed

**Table 2 Assessment of Noise Risk** 

What do you do that can harm and what could be harmed		Managing the risk	Assessing the risk			
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Noise problems from large vehicles travelling to and from the farm  Mobile source	Neighbouring dwelling houses within 400 m of the installation	Air	Vehicles are required to be driven onto and off site with due consideration for neighbours  Deliveries of feed and fuel are made only during the daytime, if possible, so disturbance is minimised  General animal movements made during daylight hours and of short duration, with minimum stress  All vehicles maintained so as to minimise engine noise and are driven slowly to and from the site  Roads and tracks maintained to minimise noise produced	Unlikely	Noise annoyance	Not significant if managed carefully
Large vehicles on site for delivering feed, loading live pigs at end of the growing period, removal of muck and slurry from houses, removal of dirty water from underground tanks Mobile source	Neighbouring dwelling houses within 400 m of the installation	Air	Vehicles need to be well maintained and must be driven slowly around the site  Engines to be switched off when not in use  Vehicles fitted with an audible 'vehicle reversing' warning system	Unlikely	Noise annoyance	Not significant

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Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I need to protect?  How can the hazard get to the receptor?	reduce the risk? If it occurs -	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence	
			are generally used only in the daytime			•
			Idling of machines avoided and engine revs kept low with an effective silencer			
			Minimal manual feeding restricted to day working hours, limited at weekends and bank holidays			
			Need for scraping minimised and underground slurry transfer systems in place from house to store			
			Slurry tanker filling and emptying done as an intermittent activity			
			Slurry store location not in direct line of sight with residential housing			
			Machinery and equipment sited as far as possible from neighbours			
			Electric submersed pump, intermittent operation, regular servicing			

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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence	
Small vehicles travelling to and from the farm, e.g. staff and visitors' cars, courier van deliveries, etc. Mobile source	Neighbouring dwelling houses within 400 m of the installation	Air	Measures as described in 'How to comply – intensive farming'  Small vehicles arrive during the normal working day and, therefore, are seen as low risk	Unlikely	Noise annoyance	Not significant	
Feed transfer from lorry to bins and tanks Fixed source	Neighbouring dwelling houses within 400 m of the installation	Air	Feed building acts as a screen between delivery vehicle discharge point and nearest housing  Vehicles are well maintained and designed so that noise during feed transfer is minimised  Conveyors and augers not operated when empty  Tipping-type delivery vehicles and augers used, whenever possible, for bulk dry ingredient delivery  Blower and vacuum-type delivery vehicles fitted with low noise units	Unlikely	Noise annoyance	Not significant	
Operation of fans Fixed source	Neighbouring dwelling houses within 400 m of the installation	Air	Some buildings naturally ventilated  Efficient extractor fans used and maintained in good condition to avoid excessive noise	Unlikely	Noise annoyance	Not significant	

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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence	
			Fans sited away from neighbours, and cowls used to muffle noise, as appropriate				
			Forced ventilation systems with automated controls to minimise run time and fan speed				
Alarm system and standby generator Fixed source	Neighbouring dwelling houses within 400 m of the installation, staff and pigs	Air	Weekly system test (required by law) is carried out each Friday morning, timed to minimise nuisance to neighbours  All electrics and equipment are routinely maintained so that the back-up systems rarely need to be used in practice	Unlikely	Noise annoyance	Not significant	
Pigs Mobile source	Neighbouring dwelling houses within 400 m of the installation	Air	Noise from pigs may be considered to be a likely cause for complaint during the growing period During loading, noise from animals is minimised by careful handling and by prompt removal of the lorry from the site when full	Unlikely	Noise annoyance	Not significant	
Personnel  Mobile source	Neighbouring dwelling houses within 400 m of the installation	Air	Staff and other contractors are required to carry out their work without creating excessive noise from shouting and use of radios, etc.	Unlikely	Noise annoyance	Not significant	

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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Repairs	Neighbouring dwelling houses within 400 m of the installation	Air	Noise Management Plan in place  If repairs to the site are required, the work is undertaken with due regard for possible noise nuisance and during the normal working day  In the event of major repair work being undertaken, which is likely to cause significant noise and disruption, neighbouring residents will be notified in advance	Unlikely	Noise annoyance	Not significant
Manure/slurry spreading	Neighbouring dwelling houses within 400 m of the installation, wildlife	Air	Machinery operated at reasonable times, where possible, and idling avoided  Equipment maintained to optimum standards	Likely	Noise annoyance	Not significant if managed carefully

**Table 3 Assessment of Fugitive Emissions Risk** 

What do you do that can harm and what could be harmed			Managing the risk	Assessing the risk			
Hazard	Receptor	Pathway		Probability of exposure	Consequence	What is the overall risk?	
What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence	
To air							
Dust (including bio aerosols)  Sources:  • Straw  • Feed	Neighbouring dwelling houses within 400 m of the installation:  Nuisance  Contributes to odours  Human health (inhalation)  Surrounding vegetation: Covers leaves and inhibits photosynthesis  Surrounding land: Nutrient enrichment of soils  Contributes to respiratory problems for pigs and staff	Air	Use of suitable bedding materials and good storage of such materials  Pelleted feed delivered in sealed systems and stored in covered containers  Regular clearing of dust to prevent build-up within buildings, on roofs and around vents, as part of the disease control strategy  Treatment of lightly contaminated surface water by swale/soakaway	Dust could potentially reach the road and neighbouring houses and surrounding land when a strong wind blows in that direction, which it does around 50 days per year  Management actions should prevent this happening	Nuisance: Dust on surrounding vegetation, cars, clothing  Smothering and direct damage to nearby vegetation  Pigs/staff may get stressed and become unwell	Not significant if managed carefully	

What do you do that can harm and what could be harmed		Managing the risk	Assessing the risk			
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What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Ammonia  Source: Pig housing and manure/slurry/dirty water storage, removal and spreading	Neighbouring dwelling houses within 400 m of the installation  Pigs and staff: High levels can cause respiratory problems  Also perceived as a nuisance as it contributes to odours  Surrounding vegetation: Direct toxic effect and changes to sensitive ecosystems  Surrounding land: Nutrient enrichment and acidification of soils	Air	Measures as described in 'How to comply – intensive farming'  Mitigation measures as for odour  Feed formulated to match pig requirements and to minimise amount of ammonia produced  Rations under periodic review  Reduced slatted area in housing  Provision of sufficient straw in bedding to bind nitrogen, where appropriate  Ventilation and heating control systems designed to provide optimal environment and regularly monitored and maintained  Covered slurry store fitted with double gate valves  Regular monitoring of tank and store contents, and maintenance of facilities and equipment	The impact of ammonia on air emissions from the installation has been assessed using the H1 methodology and detailed air dispersion modelling  The results demonstrate there will be little likelihood of impact to nearby wildlife sites	Aerial deposition and direct toxic effect on trees  Nutrient enrichment of soils and changes to sensitive ecosystems  Respiratory problems in humans and mammals	Not significant

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			Frequency of slurry/manure removal to optimise pen cleanliness			
			Dedicated purpose-built facilities for slurry, dirty water and manure			
			Manure/slurry spread at low level and in accordance with the Manure Management Plan and NVZ rules			
			Fully trained operators			
			Soils regularly analysed and applications made in response to crop requirements to avoid spreading more slurry/manure than is needed			
Zoonoses and notifiable diseases	Human health and livestock health	Air/direct contact	Detailed biosecurity precautions in place, e.g. frequent stock inspection, use of disinfectants and appropriate clean overalls, boots, etc. for staff, visitors and contractors, to prevent spread of disease	Unlikely	Human and livestock health implications	Not significant if managed carefully
			Secure site visitor policy			

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			Livestock monitored for signs of disease and incidents reported quickly			
			Use of a health plan, with specialist veterinary input in place			
To water						
Nutrients such as N and P plus organic matter  Source: Wash water run-off to nearby watercourse, muck and slurry spreading	Adjacent Watercourse: Mill Stream  Nutrient leaching from soil to surface waters and groundwater, causing eutrophication and increased biochemical oxygen demand (BOD) of watercourses	Land	Wash water run-off is diverted to underground storage tanks  Curbing prevents wash water entering the nearby watercourse  Used bedding/feed spilt on yard/roadways during clean-out is cleaned up  Field manure heaps sited away from watercourses and boreholes  Manure management plan followed, including NVZ rules for spreading manure and slurry	Unlikely	Pollution of watercourse leading to eutrophication and poisoning of flora and fauna	Not significant if managed carefully

What do you do that can harm and what could be harmed		Managing the risk Assessing the		risk		
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Spillages from storage and use of pesticides and fuel/chemicals	Vulnerable groundwater beneath site	Land	Management techniques employed aimed at avoiding or minimising use, where possible  Use of approved chemicals only  Operators fully trained and all equipment regularly maintained to avoid any in-field spillage or discharge  All tanks bunded and compliant with legislation	Unlikely	Contamination of surface and groundwaters Killing of flora and fauna	Not significant
To land						
Ammonia from storage of dirty water, slurry, manure and housing	Sensitive nature and conservation sites identified in pre- application screening Is there a SSSI within 500 m?	Air	As for odour and 'To water' above Feed selected to minimise excretion of nutrients Storage sites sited away from sensitive receptors Dirty water tank covered Proposals to cover slurry store in improvement plan	Likely	Direct toxic effect on trees, nutrient enrichment and acidification of soils Changes to sensitive ecosystems	Not significant if managed carefully

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Waste materials, packaging, etc.  Source: Non-organic waste storage and disposal	Neighbouring dwellings and surrounding habitats and countryside	Air	Policy to avoid production, where possible  Dedicated storage areas and facilities  Collected by licensed contractors for recycling or disposal  Regular checks made for rubbish dumped by third parties	Unlikely	Amenity value of countryside spoilt by rubbish  Possibility of causing harm to wildlife	Not significant
Pests						
			Pest management programme in place  Food sources covered and secure from pests	Unlikely	Flies and rats are a vector of pollution that can harm human health  Concerns about this pollution can cause offence and affect amenity	Not significant if managed carefully

**Table 4 Assessment of Accident Risk** 

What do you do that can harm and what could be harmed		Managing the risk  Assessing the risk		e risk		
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I need to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What harm can be caused?	What is the risk that remains? The balance of probability and consequence
Spillages from pesticide and biocide handling and storage areas escaping	Potentially polluting liquids flow over yard to clean drain inlet/ ditch/stream/ pond/swale and surrounding land  Also vulnerable groundwater beneath site	Flowing over yard or through cracks in poor impermeable surface and through the ground	Accident Management Plan in place  Repair any infrastructure and design appropriate containment measures  Maintenance and regular inspection procedure designed and implemented  Foot dips on good concrete with drains to slurry store or dirty water system, and located where overflowing gutters will not dilute  Wheel wash constructed from reinforced concrete with sealed joints  Regular inspection of facilities and records kept  Dedicated container for storage with impermeable hard standing within bund  Removed from site by licensed contractor	Very unlikely	Contamination of local groundwater and potential nearby abstractions	Not significant with measures indicated

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			Damaged or suspect packaging rejected at time of delivery			·
Fuel oil in storage tank/vehicles escaping the containment	Land, local watercourse	The surface water drainage system	Regular inspection in accordance with the site maintenance and inspection procedure and complies with SSAFO regulations  Barriers in place to prevent vehicles damaging tanks and equipment  Concrete base and bund containing tank and fill point  Double valves locked when not in use  Site drains discharge to oil interceptors (sumps) prior to soakaway  If spills occur, the oil spill equipment is located nearby	Very unlikely	Contamination of local watercourse	Not significant
Failure to contain firewater or off-site pollutants	Ditches, local watercourse		Accident Management Plan in place  Emergency barrier boards to be inserted in ditch culvert north of mill/mix shed  Sandbags kept by diesel tank	Unlikely	Contamination of local watercourse and surrounding land	Not significant

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			Drain inlets to be covered by sandbags, drain bung inserted, diverter valve closed			
			Stem flow of run-off from edge of yard using sandbags, use loader to push soil into a dam and excavate a sump			
Incorrect disposal of wash water	Clean drain, ditches, local watercourse and soakaways	Drains, ditches, land	Staff trained in correct operation procedures  All drains marked  All drains shown on drainage plan	Unlikely	Contamination of ground and surface waters	Not significant
Spillage when loading and emptying incinerator of non-SRM material, e.g. ash containing trace elements, heavy metals, calcium,	Neighbouring dwelling houses Surrounding land and	Air, land and water	Accident Management Plan in place  Regulation and regular inspection of facilities and records kept  Impermeable hard standing with liquid collection	Unlikely	Contamination of local watercourse, groundwater, vegetation,	Not significant
phosphate and dust	watercourses		APHA-approved activity includes records and inspections		soil, etc.	
Acts of vandalism which cause damage to structures and fittings	Surrounding land, surface	Land, water	Site security	Low	Contamination of soil and/or water	Low

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	and ground waters					
Flooding and other storm damage	Surrounding land, surface and ground waters	Land, drains, watercourses	Good site layout and design  Maintenance of site infrastructure and local flood defences  Observe weather forecasts and warnings	Low	Water and soil pollution	Low
Power outage causing failure of slurry pumping systems, resulting in tank overflow  Failure of automatic liquid level control sensors and devices	Surrounding land, surface and ground waters	Land, drains, watercourses	Stand-by generator with automatic start-up and switch over	Low	Overflow of storage facilities	Low
	Livestock, staff, buildings, fuel and oils,				Toxic smoke and other pollutants, surface run-off from firefighting water, surface run-off from failed storage tanks, pipes and stores  Exploding gas and fuel	

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Fire	chemicals, bedding, feed, local habitats and neighbouring dwellings	Air	Regular inspection and maintenance of equipment	Unlikely	canisters and containers  Increased numbers of dead animals for disposal  Dust and fibres from sheet building material which may contain asbestos	Low
Below ground dirty water tank and pipe ruptures/overflows (including used disinfectant)	Dirty water flows over yard to clean drain inlet at the back of the office and into local watercourse	The surface water drainage system	Curbing to prevent water entering nearby watercourses  Use of Defra/NOAH-approved disinfectants  Block off drain inlet with sand bags kept by diesel tank  If already entered drain, block off ditch with boards at point Y as indicated on Accident Management Plan	Unlikely	Contamination of local watercourse	Not significant

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			Contact office or duty manager. If necessary, contact Environment Agency			