008 – Environmetal Risk Assessment

Farm name: Sheephouse Farm

Operator: Blanchard Enterprises

Permit number: UP3539UM

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	Staff dwelling houses within 400 m of the installation	Air	Measures as described in 'How to comply with your environmental permit for intensive farming V2 Jan 2010' (EPR 6.09 Sector Guidance Note) Odour Management Plan in place Feed delivery will be sealed (pipe direct from lorry to bin) 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 Feed delivery from bin to feeders by electronically controlled auger in enclosed pipes.	Unlikely	Odour annoyance	Not significant

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
			The unit is relatively isolated so there is minimal risk of dust causing direct odour nuisance All mixing and milling operations carried out within enclosed building and doors kept closed during operation			
 Odour arising from problems with housing ventilation system Inadequate air movement in the house leading to high humidity and wet bedding Inadequate system design causing poor dispersal of odours 	Neighbouring dwelling houses within 400 m of the installation	Air	Measures as described in 'How to comply - intensive farming' Natural Ventilation controlled and monitored with fail safes and temperature sensors. 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 Disease and vice outbreaks 	Neighbouring dwelling houses within 400 m of the installation	Air	Measures as described in 'How to comply – intensive farming' Controls on feed and ventilation (see above) help to maintain air quality Additional controls include: Regular maintenance and correct positioning to avoid overflow from	Unlikely	Odour annoyance	Not significant

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
			feed and drinking systems. Straw stored inside to keep dry.			
			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 temporarily stored in midden with short scrape from building. Then loaded directly to trailers for transport to fields.			
			Dirty water collection systems enclosed and regularly emptied to avoid anaerobic conditions			
			Frequent removal of manure and dirty water; wind direction observed			
 Carcase disposal: Inadequate storage of carcases on site On-site disposal of carcases by incineration 	Neighbouring dwelling houses within 400 m of the installation	Air	Measures as described in 'How to comply – intensive farming' Carcases are placed in sealed containers immediately after they are removed and are promptly disposed of by on-site incinerator	Unlikely	Odour annoyance	Not significant

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
			Approved incinerator used; intermittent activity			
			Odours controlled by after burner			
			All odour complaints are logged and investigated			
			Pens and yards kept clean			
 Buildings: Cleaning and disinfection Emptying slurry pits Removal of manure 	Neighbouring dwelling houses within 400 m of the installation	Air	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 dirty water, wind direction	Likely	Odour annoyance	Not significant if carefully managed
			observed			
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	Likely	Odour annoyance	Not significant if carefully managed

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
			Intermittent activity only			
Odour arising from manure and slurry Storage – dirty stores , slurry 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 Slurry store covered Areas of open, dirty concrete minimised Stores emptied regularly Plan to compost 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	Measures as described in 'How to comply – intensive farming' 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

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
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	Measures as described in 'How to comply – intensive farming' 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 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 Yard scraping minimised to 3 times per week and underground dirty water transfer systems in place from house to store Slurry spread via umbilical system only once or twice per year	Unlikely	Noise annoyance	Not significant

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
			Machinery and equipment sited as far as possible from neighbours Electric submersed pump, intermittent operation, regular servicing New covered above ground slurry store to be installed			
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	Unlikely	Noise annoyance	Not significant

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
			Blower and vacuum-type delivery vehicles fitted with low noise units			
Operation of fans Fixed source	Neighbouring dwelling houses within 400 m of the installation	Air	Buildings naturally ventilated	Unlikely	Noise annoyance	Not significant
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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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
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	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
To air						
Dust (including bio aerosols) Sources: • Straw • Feed • Incinerator ash	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 Use of pelleted feed delivered in sealed systems and stored in covered containers Incinerator ash is transferred to covered container prior to removal from the site 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 h	arm and what cou	ld 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
	Neighbouring dwelling houses within 400 m of the installation		Measures as described in 'How to comply – intensive farming' Mitigation measures as for odour			
Ammonia Source: Pig housing and manure/slurry/dirty water storage, removal and spreading	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	Feed formulated to match pig requirements and to minimise amount of ammonia produced Rations under periodic review 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 Regular monitoring of tank and store contents, and maintenance of facilities and equipment Frequency of slurry/manure removal to optimise pen cleanliness Dedicated purpose-built facilities for manure and slurry storage. SSAEQ and BAT complaint	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

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
			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 Secure site visitor policy Livestock monitored for signs of disease and incidents reported quickly Use of a health plan, with specialist veterinary input in place	Unlikely	Human and livestock health implications	Not significant if managed carefully
To water						

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
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 and contained within the slurry storage systems on site. 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
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

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
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 Reception pits covered Proposals decommission the slurry lagoon and build covered purpose built slurry lagoon.	Likely	Direct toxic effect on trees, nutrient enrichment and acidification of soils Changes to sensitive ecosystems	Not significant if managed carefully

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
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						
Flies on manure heap could move off site and affect nearby residents Also, birds, rats, etc.	Neighbouring dwelling houses	Air	Pest management programme in place Manure heap is regularly inspected to check for maggots and flies Heap will be treated with pesticide and covered with sheeting if flies become an issue	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

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
			Food sources covered and secure from pests			
			Pest control programme in operation			

Table 4 Assessment of Accident 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
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

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
			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

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
			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, phosphate and dust	Neighbouring dwelling houses Surrounding land and watercourses	Air, land and water	Accident Management Plan in place. Very small volumes removed at a time. Regulation and regular inspection of facilities and records kept Impermeable hard standing with liquid collection APHA-approved activity includes records and inspections	Unlikely	Contamination of local watercourse, groundwater, vegetation, soil, etc.	Not significant
Acts of vandalism which cause damage to structures and fittings	Surrounding land, surface and ground waters	Land, water	Site security	Low	Contamination of soil and/or water	Low

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
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 reception 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
Fire	Livestock, staff, buildings, fuel and oils, chemicals,	Air		Unlikely	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 canisters and containers	Low

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?
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	bedding, feed, local habitats and neighbouring dwellings		Regular inspection and maintenance of equipment		Increased numbers of dead animals for disposal Dust and fibres from sheet building material which may contain asbestos	
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 Contact office or duty manager. If necessary, contact Environment Agency	Unlikely	Contamination of local watercourse	Not significant

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