

Appendix No. 11

Assessment of Environmental Impacts

Source of Emission	Emission (e.g. ammonia, dust, run-off, spillage, noise, odour)	Receptor (e.g. air, water, land, humans, plants)	Description of impact and duration of impact i.e. short term (ST), medium (MT) or long term (LT)	Significance of negative impacts Major +++ Moderate ++ Minor + Nil 0	Mitigation / management measures for this emission
1. Poultry production (whilst houses are stocked and at clean-out)	Ammonia	Air Land Plants	Aerial deposition and direct toxic effect on trees (ST) Nutrient enrichment of soils (LT) Changes to sensitive ecosystems (LT)	+++ ++ +++	<ul style="list-style-type: none"> Litter kept friable Feed formulated to match flock requirements
	Dust	Humans Plants Land Water Air	Nuisance (ST) Contributor to odours (ST) Human health – inhalation (LT) Covers leaves, inhibits photosynthesis (ST) Nutrient enrichment of soils (LT) Nutrient enrichment of water courses (MT) Adverse effect on air quality (ST)	+ + ++ ++ ++ + +	<ul style="list-style-type: none"> Use of suitable litter materials Use of pelleted feed delivered in sealed systems Litter is tipped into trailers from minimal height Trailers are covered when full
	Dirty water (e.g. due to run-off during or after clean-out)	Land Water	Nutrient enrichment of soils (LT) Nutrient enrichment of water courses (MT)	+++ +++	<ul style="list-style-type: none"> All dirty water is directed to sealed storage tanks Used litter spilt on roadways during clean-out is swept up
	Noise	Humans	Nuisance (ST)	++	<ul style="list-style-type: none"> Measures as set out in Noise Management Plan

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Poultry production (continued)	Odour	Humans	Nuisance (ST)	++	<ul style="list-style-type: none"> Measures as set out in Odour Management Plan
	Zoonoses and notifiable diseases	Humans Livestock	Human and livestock health implications (ST)	+	<ul style="list-style-type: none"> Detailed biosecurity precautions in place e.g. frequent stock inspection, use of disinfectants and appropriate clean overalls, boots etc. for staff and visitors to prevent spread of disease
	Feed (e.g. due to spillage from bins)	Land Water	Nutrient enrichment of soils (LT) Nutrient enrichment of water courses (MT)	+ +++	<ul style="list-style-type: none"> Feed bins are regularly checked for signs of damage and wear Feed bins are protected from collision damage
	Pests	Humans	Nuisance caused by vermin and flies	+	<ul style="list-style-type: none"> Pest control done by certificated farm staff weekly

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2. Use of vehicles on site	Feed, used litter or dirty water (e.g. due to spillage from vehicles)	Land Water	Nutrient enrichment of soils (LT) Nutrient enrichment of water courses (MT)	+ +++	<ul style="list-style-type: none"> Any feed spillage beneath bins is cleaned up by driver Used litter is covered in trailers before leaving the site Machinery used to remove dirty water from tank is kept in optimum working order
	Noise	Humans	Nuisance (ST)	++	<ul style="list-style-type: none"> Measures as set out in Noise Management Plan
	Odour	Humans	Nuisance (ST)	+	<ul style="list-style-type: none"> Measures as set out in Odour Management Plan
3. Incinerator (carcass disposal)	Odour	Humans	Nuisance (ST)	++	<ul style="list-style-type: none"> Measures as set out in Odour Management Plan
			All carcasses will be collected from site by a licensed contractor under the National Fallen Stock Scheme.		

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4. Storage Facilities	Dirty water (e.g. due to overflow or leakage from underground collection tank)	Land Water	Nutrient enrichment of soils (LT) Contamination of surface and groundwaters (MT)	++ +++	<ul style="list-style-type: none"> Written procedures in place for diverter valve settings and for monitoring tanks during clean-out. Appropriate staff have been trained
	Fuels, disinfectants and other chemicals (e.g. due to spills or leakage)	Water Land	Contamination of surface and groundwaters with consequential effects on animals (ST) Contamination of land (MT)	+++ +++	<ul style="list-style-type: none"> All storage tanks are bunded Smaller containers are kept in a purpose-built chemical store Environmentally-friendly products are used where possible
	Health risks due to skin contact with stored materials, inhalation etc.	Humans	Human health issues (ST)	+	<ul style="list-style-type: none"> Accident management plan prepared and staff have received training COSHH data sheets for products used are kept on site Spill kits are readily accessible to contain spillage

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Storage Facilities (continued)	Health risks due to skin contact with stored materials, inhalation etc.	Humans	Human health issues (ST)	+	<ul style="list-style-type: none"> • Accident management plan prepared and staff have received training • COSHH data sheets for products used are kept on site • Spill kits are readily accessible to contain spillage
Biomass Boiler	Biomass Fuel	Air Human	Dust(ST)	+	<ul style="list-style-type: none"> • Only clean, dry biomass will be used • Unloading is controlled from front of lorry • Movement of biomass will be done from inside a telescopic handler cab.
	Boiler Room	Air	Air	+	<ul style="list-style-type: none"> • Ash will only be removed periodically and consists of less than 3% of imputed product. <ul style="list-style-type: none"> • The boiler will be maintained to manufacturers specification to ensure a clean and full burn of all toxins

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Biomass Boiler	Boiler Room (cont)				<ul style="list-style-type: none"> • Clean biomass is loaded into boiler by a sealed auger • The boilers are in a sealed room to help control any possible fire hazard
	Ash	Air	Dust	+	<ul style="list-style-type: none"> • Clean ash will be added to dirty litter for spreading to agricultural land