

Fugitive Emissions at Gulham Poultry Unit

Hazard	Receptor	Pathway	Risk Management	Exposure	Consequence	Overall Risk
To Air						
Dust: Sources: Litter and Feed.	No receptors within 400m of Installation Surrounding Land and Vegetation	Air	Use of suitable bedding materials. Use of pelleted feed delivered in sealed systems. Litter removed carefully during cleanout minimising dust. Full trailers sheeted before leaving.	Dust could have the potential to reach nearby neighbours and surrounding land during certain weather conditions and operations (clean out approximately 20 days per year) Careful management Should prevent this happening. Unlikely during growing phase.	Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.	Not significant if carefully managed.
Ammonia: Source: Poultry housing	No receptors within 400m of Installation Surrounding Land and Vegetation	Air	Measures as described in IPPC SRG 6.02 How to Comply. Litter kept dry and friable. Feed formulated to match flock requirements. Litter removed off site following crop depletion, no storage on site.	The impact of Ammonia Air emissions have been assessed using the H1 methodology and pre application report demonstrating there will be insignificant impact to nearby protected sites.	Arial deposition and direct toxic effect on trees. Nutrient enrichment of soils and changes to sensitive ecosystems.	Not significant.
Zoonoses and Notifiable diseases	Human Health an Livestock Health	Air, Direct contact	Detailed biosecurity measures in place. Visitor's procedure. Use of appropriate PPE Tailored terminal hygiene programme Veterinarian health plan	Unlikely	Human and Livestock health implications	Not significant if carefully managed.
To Water						
Flooding	Drainage ditches	Land	Installation lies in a Flood Zone 2, all poultry houses, feed silos, carcass store,	Unlikely	Pollution of watercourses leading to eutrophication and	Not significant if managed carefully.

			biomass building, LPG tanks, fuel tank and all ancillary structures are mounted on raised concrete pads, preventing the ingress of flood waters and subsequent release of contaminated water.		poisoning of flora and fauna	
Wash water run off to nearby drain	Drainage ditches	Land	Wash water from poultry houses directed in sealed system to underground storage tank. Spillages of litter on yard areas during cleanout swept up, Lightly contaminated yard wash directed to underground tank. All clean site drainage directed to attenuation pond.	Unlikely	Pollution of watercourses leading to eutrophication and poisoning of flora and fauna	Not significant if managed carefully.
Pests						
Flies	No receptors within 400m of Installation	Air	Temporary field heaps regularly checked for maggots and flies, heaps treated with pesticide and covered if flies become an issue	Unlikely	Flies are a vector of pollution that can harm human health and amenity causing offence.	Not significant if managed carefully.
Rodents/Vermin	No receptors within 400m of Installation	Land	Feed spillages cleared up promptly. Specialist contractor used to control pests.	Unlikely	Rodents are a vector of pollution that can harm human health and amenity causing offence.	Not significant if managed carefully.

