

## Fugitive Emissions Thornton Le Moor Poultry Unit

| Hazard                              | Receptor                                                                                    | Pathway             | Risk Management                                                                                                                                                                                                      | Exposure                                                                                                                                                                                                                                                  | Consequence                                                                                                          | Overall Risk                          |
|-------------------------------------|---------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>To Air</b>                       |                                                                                             |                     |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                      |                                       |
| Dust: Sources:<br>Litter and Feed.  | Neighbouring dwelling houses within 400m of installation<br>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 laying phase. | Nuisance – dust on surrounding vegetation, cars and clothing. Smothering and direct damage to nearby vegetation.     | Not significant if carefully managed. |
| Ammonia: Source:<br>Poultry housing | Neighbouring dwelling houses within 400m of installation<br>Surrounding Land and Vegetation | Air                 | Measures as described in SGN EPR6.09 How to Comply. Litter kept dry and friable. Feed formulated to match flock requirements. Litter removed twice weekly off site and following crop depletion, no storage on site. | The impact of Ammonia Air emissions, have been assessed using the H1 methodology, pre application report demonstrates negligible impact of emissions on protected sites.                                                                                  | Arial deposition and direct toxic effect on trees. Nutrient enrichment of soils and changes to sensitive ecosystems. | Not significant if carefully managed. |
| Zoonoses and Notifiable diseases    | Human Health and 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. |
| <b>To Water</b>                     |                                                                                             |                     |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                      |                                       |
| Wash water run off                  | Ground                                                                                      | Land                | Wash water from poultry house directed in sealed system to underground storage                                                                                                                                       | Unlikely                                                                                                                                                                                                                                                  | Pollution of watercourses leading to eutrophication and                                                              | Not significant if managed carefully. |

|                |                                                          |      |                                                                                                                                                                                                  |          |                                                                                           |                                       |
|----------------|----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|---------------------------------------|
|                |                                                          |      | tanks. Spillages of litter on yard areas during cleanout swept up, lightly contaminated yard wash directed to underground tank. All clean site drainage directed to French drains and soakaways. |          | poisoning of flora and fauna                                                              |                                       |
| <b>Pests</b>   |                                                          |      |                                                                                                                                                                                                  |          |                                                                                           |                                       |
| Flies          | Neighbouring dwelling houses 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 | Neighbouring dwelling houses 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. |