

# Attachment E

## Emissions

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## **E.1. Emissions to Atmosphere**

### *Fugitive emissions*

Process emissions to the atmosphere from a poultry unit include the expelling of warm air from the vent system in the buildings and gas volatilisation from the manure.

### **Control Measures to Minimise and Abate Odour on site at present**

Emissions from this poultry unit are currently contained using the following recommendations:

1. Reducing uncontrolled air movements on site and leakage from the ventilation system and from the houses.
2. The use of a high-tech computerised ventilation system, in houses.
3. Minimising the generation of odours during meteorological conditions which favour the spread of odours.
4. There is one stormwater monitoring point to be visually inspected on the farm. This is identified on the site's layout plan.
5. All soiled water is diverted to the soiled water storage tanks and clean water is diverted to the stormwater monitoring point.

## **E.2. Emissions to Surface Waters**

All surface water collected on site will be diverted to the storm water monitoring point SW1 identified on the site's layout plan. This monitoring point will be inspected visually weekly and sampled and tested at an Independent Laboratory quarterly. All soiled surface water is diverted to the soiled water storage tanks and clean water is diverted to the stormwater monitoring point.

All visual inspection of the monitoring point will be made and recorded weekly.

## **E.3. Emissions to Ground**

### **E.3.A. Storm water emissions to ground**

There are no discharge emissions from the unit to ground. Therefore this section is not relevant to this application.

### **E.3.B. Landspreading**

Poultry manure generated at the Unit will be utilised in accordance with the regulations set out in S.I. 31 of 2014 – European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2010.

The poultry litter from this unit is supplied to Custom Compost, Co. Wexford. The litter is removed off-site on the same day as shed cleaning is carried out. No litter from this farm has been used as agricultural fertiliser in the past 12 months and it is intended to forward all litter, in future for composting.

Soiled water arising from the washing down of the accommodation houses is utilised on the applicant's land adjacent to the unit and amounts to approximately 5 vacuum tanks a year. The application of the soiled water is regulated under the EU (Good Agricultural Practice for the Protection of Waters) 2014 S.I. 31 of 2014.

#### E.3.C. Septic tanks/percolation area etc

Canteen and W/C facilities are provided for in the developer's own domestic house. As a result, there is no septic tank associated with the unit.

#### **E.4 Noise Emissions**

A simple definition of noise is "unwanted sound". Noise levels are measured in decibels and a weighting factor (A) is applied to approximate the frequency response to the human ear. This weighted decibel scale dB(A) correlates well with human sensations of loudness, disturbance and annoyance.

Insulation levels in modern poultry unit are high, normally 60mm extruded polystyrene in walls and 60mm extruded polystyrene in ceilings. This greatly reduces noise levels from the interiors of the buildings.

There have been no complaints of noise emissions made directly to the farm.

The activities currently onsite do not generate noise levels that could be detected at site boundary, similar to most poultry farms in the country.

This unit will not result in audible noise outside of acceptable limits at or beyond site boundary.