


*This Report has been cleared for submission to Director by Senior Inspector Niamh O Donoghue.*

Signed: 

Date: 18/11/2025



## OFFICE OF ENVIRONMENTAL SUSTAINABILITY

### INSPECTOR'S REPORT ON AN INDUSTRIAL EMISSIONS LICENCE APPLICATION, LICENCE REGISTER NUMBER P1217-01

TO:	Darragh Page DIRECTOR		
FROM:	Éilis Linehan, Industrial Control & Environmental Regulation (ICER), Inspector		
DATE:	20 November 2025		
Applicant:	Deal View Farm Limited		
CRO number:	512164		
Location/address:	Coolanoran, Newcastle West, County Limerick		
Application date:	25 October 2024		
Class of activity (under EPA Act 1992 as amended):		6.1(a): The rearing of poultry in installations where the capacity exceeds 40,000 places.	
Category of activity under IED (2010/75/EU):		6.6(a): Intensive rearing of poultry with more than 40,000 places for poultry.	
Main CID:	CID (EU) 2017/302 (15 February 2017). Establishing (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the intensive rearing of poultry or pigs.		
	All relevant CIDs, BREF documents and legislation are listed in appendices of this report		
Activity description/background: Expansion of an activity for the rearing of poultry (broilers) in an installation with a capacity increasing from 47,300 to 80,000 birds.			
Additional information received:		Yes (14 July 2025, 05 September 2025, 21 September 2025)	
No of submissions received:		One	
Environmental Impact Assessment required: Yes		Stage 2 Appropriate Assessment required: No	
Environmental Impact Statement submitted (EIS): Yes (25 October 2024)		Natura Impact Statement (NIS) submitted: No	
Site visit: No		Site notice check: 07 November 2024	

## 1 Introduction

This is an assessment of an application for an Industrial Emissions Directive (IED) licence to carry on an activity under Part IV of the Environmental Protection Agency Act 1992, as amended (hereafter referred to as the EPA Act). The Class of Activity relevant to the operation is 6.1 (a) – The rearing of poultry in installations where the capacity exceeds 40,000 places.

Deal View Farm Limited operates a poultry (broiler) unit located at at Coolanoran, Newcastle West, County Limerick. The Directors of Deal View Farm Limited are Kieran and Tommy Conway. Details of the current and proposed site capacity and infrastructure are provided in **Table 1.1** below.

In the application, the applicant proposed two new houses in addition to two existing houses. However, an EPA Office of Environmental Enforcement (OEE) site visit conducted in 2023, as a result of a complaint by Limerick County Council, identified three stocked poultry houses with a fourth poultry house under construction. Therefore, the installation is considered to currently consist of three poultry houses and one partly constructed poultry house.

**Table 1.1. Application details.**

	Existing	Proposed
Bird type	Broiler	Broiler (conventional or free-range)
Number	47,300	80,000

Based on the OEE's site visit conducted in July 2023, the applicant is currently operating the installation at 47,300 places. The applicant was notified that this is above the licensing threshold.

The licence application is for an installation to be operated at a capacity of 80,000 free-range/conventional broilers, and the assessment undertaken is on the basis of this capacity, however, the Recommended Determination (RD) limits capacity to a maximum of 71,000 free-range broilers until the applicant can demonstrate that nutrient deposition in the range area complies with the European Union (Good Agricultural Practice for Protection of Waters) Regulations, as amended. This is discussed further in section 6.2 below.

A map of the site layout is included in Appendix 1 of this report.

## 2 Description of activity

The installation is located in a rural location, with most development near the installation consisting of dwelling houses and farmyards. Poultry farming has been carried out on this site since the 1990s. The proposed enterprise will employ two people.

The main activities proposed at this installation occur during normal working hours between 06:00 and 20:00. Stock inspections are carried out every day, including weekends and bank holidays and additional essential activities may be undertaken outside of core working hours. The installation will operate in accordance with the requirements of the Department of Agriculture, Food and the Marine, and under the Bord Bia Poultry Products Quality Assurance Scheme (PPQAS).

The process involves the rearing of stock specifically bred for lean poultry meat production. Under a free-range operation, day old chicks delivered from the hatchery are held indoors for a four-week period. For the following three to four weeks, they have access to the outdoor "range" area around each house during daylight hours but are closed in at night. Under a conventional operation, day old chicks will be delivered from the hatchery and reared indoors for approximately 5-7 weeks for processing. For both proposals, at the end of the rearing cycle, the houses

are destocked, and the birds are removed from the installation to the processing site. Poultry litter (organic fertiliser) is removed, and the houses are cleaned. Following a period of up to two weeks, to allow for complete drying after the cleaning process, the houses are restocked.

The broiler houses will be thermally insulated, with a computer-controlled ventilation system and artificial lighting. Automatic feeding and ventilation systems operate on a 24-hour basis. The principal inputs to the operation are bedding, feed, water, veterinary medicines and energy (electricity, diesel for back-up generator, and natural gas for heating). The main by-product of poultry rearing is organic fertiliser (poultry litter and wash water). These are discussed in further detail below.

### 3 Planning Status

A number of planning applications have been made for the area within the installation boundary since 1993 (including Planning Ref. 93/1238, 12/245 and 17/7012).

On 21 January 1994, Limerick County Council granted planning permission (Ref. 93/1238) for the construction of 2 no. prefabricated broiler fattening units.

An Bord Pleanála (ABP) granted planning permission (Planning Ref. 12/245, Appeal Ref. PL13.240907) on 04 March 2013, for the construction of an additional two poultry houses to accommodate an overall capacity on the farm of 80,000 places.

On the 17 May 2017, Limerick County Council (Ref. 17/7012) granted an extension of duration for planning ref. 12/245 until the 02 March 2023. In a letter from Limerick City and County Council dated 10 September 2024, the planning authority confirmed that a proposed change from a traditional broiler rearing to a free-range operation would not require a separate grant of permission.

Details of these planning applications and permissions have been provided in the application form. The applicant has submitted the Environmental Impact Statement (EIS) associated with planning Ref. 12/245. The Agency has had regard to the reasoned conclusions reached by the planning authority and An Bord Pleanála in undertaking its environmental impact assessment of the activity.

Schedule A of the RD limits the number of birds housed on-site to a maximum of 80,000 broiler places. This is the capacity that is specified in the application, in the EIS submitted in support of the application, and in the planning permissions granted for the installation.

### 4 Environmental Impact Assessment (EIA) Screening

In accordance with section 83(2A) of the EPA Act, the Agency must ensure that before a licence or revised licence is granted, that the application is made subject to an EIA, where the activity meets the criteria outlined in section 83(2A)(b) and 83(2A)(c).

In accordance with the EIA Screening Determination, the Agency has determined that the activity is likely to have a significant effect on the environment, and accordingly, is carrying out an assessment for the purposes of EIA.

Having considered the information provided by the applicant, which satisfies the requirements of Annex II A of the EIA Directive, it has been determined that the activity is likely to give rise to significant effects on the environment by virtue of its nature, size or location. This determination has been made having regard to the following:

The activity exceeds the following threshold for a project type in Part 2 of Schedule 5 of the Planning and Development Regulations 2001, as amended:

1(e)(i) Installations for the intensive rearing of poultry not included in Part 1 of the above Schedule which would have more than 40,000 places for poultry.

An EIS was submitted to the Agency as part of the application on 25 October 2024. This is addressed in the 'EIA' Section later in this report.

## 5 Best Available Techniques and CID

Best Available Techniques (BAT) for the installation was assessed against the BAT conclusions contained in Commission Implementing Decision of 15 February 2017 establishing BAT conclusions for the intensive rearing of poultry or pigs (2017/302/EU) and in any other relevant BREF documents specified in the appendices of this report. A detailed BAT assessment was carried out by the applicant and is included in section 4.7 of the application form. Additional conditions have been incorporated into the RD to address BAT Conclusions and these are detailed throughout this report. Any relevant emission levels associated with BAT (BAT-AELs) have been specified in the emissions sections of this report.

I consider that the applicable BAT conclusion requirements are addressed through the technologies and techniques as described in the application, as well as the conditions and limits specified in the RD.

## 6 Emissions

### 6.1 Emissions to Air

This section addresses emissions to air from the installation and the environmental impact of those emissions.

#### 6.1.1 Channelled Emissions to Air

There are no main emission points to air from the installation.

#### 6.1.2 Fugitive Emissions

The only fugitive emissions from this sector are dust, odour and ammonia. These are discussed below. The nearest third-party dwellings potentially affected by fugitive emissions are detailed below (Table 6.1).

**Table 6.1: Nearest third-party residential dwellings**

Distance from Site	Direction from Site
50 m	Northeast
75 m	Northwest
120 m	East

#### 6.1.3 Dust

Dust may arise from the expulsion of warm air from ventilation systems on-site, vehicle movements, removal of organic fertiliser, filling of meal storage bins and the loading and unloading of animals during periods of dry weather.

No complaints or submissions were received in relation to dust for this site by the Agency, HSE, or by the applicant.

The applicant has stated that good housekeeping at the installation and keeping the concrete surface in a clean condition will minimise dust from the installation.

The RD specifies the following to prevent the generation and emission of dust:

- To use one or a combination of the techniques listed in BAT 11 to prevent or reduce dust emissions from the animal houses (Condition 6).

Dust is not expected to be a significant issue beyond the installation boundary.

#### 6.1.4 Odour

Odour may arise when removing the organic fertiliser from the houses and when the houses are cleaned; however, this is deemed to be minor because it is removed just once in every five-to-eight-week cycle and takes four to five hours to completely remove the organic fertiliser from the houses. All organic fertiliser from the houses will be removed off-site by a registered contractor.

A complaint relating to odour was received by the Agency from Limerick City and County Council in 2023.

The implementation of BAT on-site will reduce odour emissions. The applicant, in addition, will be required to implement an additional BAT requirement (i.e. BAT 12, only applicable for sites where odour nuisance is expected) by completing an odour management plan. This plan and its minimum elements are conditioned in the RD.

The RD specifies the following odour control conditions:

- That odour from the activity shall not result in an impairment of, or an interference with amenities or the environment beyond the installation boundary (Condition 5).
- To use a diet formulation and nutritional strategy to reduce the total nitrogen and phosphorus excreted, as per BAT 3 and BAT 4 (Condition 6).
- To use a combination of the techniques listed in BAT 13 to prevent and reduce odour emissions and impact from the site (Condition 6).
- That the applicant carries out an odour survey of the site operations as required by the Agency or in response to any complaint received (Condition 6).
- That the applicant prepares, maintains and implements an odour management plan, and incorporates it into the Environment Management System (EMS) for the installation, as per BAT 12 (Condition 6).
- Should odour become an issue on-site, the RD includes a condition whereby the applicant can be required to reduce stock or install abatement to reduce odour emissions (Condition 6).
- That carcasses stored on-site will be stored in covered leak-proof containers and transported off-site in covered, leak proof containers at least fortnightly (Condition 8).
- That organic fertiliser shall not be stored in the open pending its collection (Condition 8).

#### 6.1.5 Ammonia

The report '*Ireland's Informative Inventory Report 2025<sup>1</sup>*' (EPA, 2025) identifies agriculture as the primary contributor (99.3%) of Irish ammonia emissions in 2023, emitting a total of 115.55 kilo tonnes (kt) of ammonia in that year. According to that report, ammonia emissions from the poultry sector in 2023 were approximately 5.2 kt. The Department of Agriculture, Food and the Marine (DAFM) has published a '*Code of Good Agricultural Practice for reducing Ammonia Emissions from Agriculture<sup>2</sup>*', as required by the National Emission Ceiling Directive (NECD).

As a free-range operation, this installation will emit approximately 7 tonnes of ammonia per annum, including ammonia emitted from free-range areas. The installation will emit approximately 6.4 tonnes if operated as a conventional broiler rearing installation.

Ammonia emissions from this activity may have the potential to impact sensitive receptors in the vicinity of the installation. However, ammonia emissions and nitrogen deposition have been modelled and checked by the EPA, using a screen model (SCAIL Agriculture<sup>3</sup>), and the predicted concentration of ammonia and nitrogen deposition at European sites will not cause a significant impact on the designated sites (See the Appropriate Assessment section of this report).

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<sup>1</sup> [https://www.epa.ie/publications/monitoring--assessment/climate-change/air-emissions/IIR\\_Ireland-2025\\_web\\_v2.pdf](https://www.epa.ie/publications/monitoring--assessment/climate-change/air-emissions/IIR_Ireland-2025_web_v2.pdf)

<sup>2</sup> <https://www.gov.ie/en/publication/9a6c6-code-of-good-agricultural-practice-for-reducing-ammonia-emissions-from-agriculture/>

<sup>3</sup> Simple Calculation of Atmospheric Impact Limits (SCAIL) Agriculture is a web based screening tool available at <http://www.scaill.ceh.ac.uk/>

Qualifying interests in European sites will not be affected by ammonia emissions from the installation, due to the distance between the installation and the designated sites.

The applicant has stated that the design of the buildings, adherence to good management practices, and implementation of the required mitigation measures will reduce ammonia emissions from the installation. The RD specifies the following additional ammonia minimisation conditions:

- To establish, maintain and implement an Ammonia Management Programme within three months of the date of grant of the licence and, in accordance with BAT 23, undertake an estimation/calculation of the reduction in ammonia emissions from the activity achieved by implementing BAT (Condition 5).
- To use a diet formulation and nutritional strategy to reduce the total nitrogen excreted, as per BAT 3 (Condition 6).
- To use one or a combination of the techniques listed in BAT 32 to reduce ammonia emissions to air from each house for broilers (Condition 6).
- To complete an estimation of ammonia emissions from the poultry houses in accordance with BAT 25 (Schedule B).

The emission limits in Schedule B.1 are in accordance with those set out in the CID.

The potential for ammonia emissions from the landspreading of poultry litter is covered in the Organic Fertiliser section later in this report.

## 6.2 Emissions to Water and Ground

### 6.2.1 Emissions to Surface Waters

There are no direct process emissions to surface waters from this activity.

### 6.2.2 Emissions to ground/groundwater

Under a free-range operation, the only emission to ground from the activity is animal defecation during the time that the birds have access to the range areas. The Nitrates Regulations<sup>4</sup> will apply to the range areas and, therefore, organic nitrogen application must not exceed 170 kg per hectare. There will be no outdoor access during the first four weeks of the eight-week cycle. During the second four weeks of the cycle, access is only available for an average of eight hours a day. During this period, approximately 20 % of the birds are outdoors at any one time. Based on this, the applicant has calculated that approximately 5 % of the total volume of organic fertiliser generated by the activity will be deposited in the range area. This equates to an estimated nutrient loading of 120 kg of nitrogen and 45 kg of phosphorus per hectare per annum, once stocked at the proposed 80,000 broilers, which is compliant with the Nitrates Regulations for nitrogen but has the potential to exceed these regulations for phosphorus unless mitigated correctly.

In the context of free-range broiler systems, Table 6 of the Nitrates Regulations is the correct reference for calculating nutrient loading to land, as it provides annual nutrient excretion rates per animal, specifically accounting for direct deposition of manure without bedding or handling. In contrast, Table 8 of the Nitrates Regulations, which the applicant used, refers to the nutrient content of organic fertiliser materials such as broiler litter, a mixture of manure, bedding, and other components, typically collected and spread. Since the broilers in this case are outdoors and excreting directly onto land, Table 6 is used by the Agency.

This phosphorus loading of 45 kg per hectare per annum would require 3.5 cuts of grass annually to mitigate phosphorus accumulation. As this may not be reasonable to achieve, the Agency has reduced the free-range capacity to 71,000 broilers to lower the nutrient burden. However, the RD provides for the applicant to demonstrate that the soil type in the range area can sustainably support a higher stocking density, allowing for an increase in the free-range capacity subject to the Agency's approval.

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<sup>4</sup> S.I. No. 113 of 2022 European Union (Good Agricultural Practice for Protection of Waters) Regulations 2022, as amended.

The RD requires the applicant to do the following:

- Only allow faecal deposition in the free-range areas where it complies with the Nitrates Regulations (Condition 5).
- Protect and manage areas above and outside pop-holes to prevent the production of contaminated storm water and excess faecal deposition and nutrients in these areas (Condition 5).
- Carry out a comprehensive risk assessment to determine the risk posed to ground/groundwater by the free-range aspect of the operation (Condition 6).

### 6.2.3 Other emissions to ground/groundwater

There are no other emissions to ground or groundwater.

## 6.3 Storm Water Discharges

Storm water arises on-site from rainwater collected from clean yards and from the roofs of buildings.

All clean storm water is diverted away from soiled areas of the site by a storm water collection system around each house and is diverted by gravity for discharge via three discharge points (SW-1, SW-2 and SW-3) into a field drain on the northern boundary of the site. All three of the discharge points will have a silt trap installed prior to discharge.

The table below gives details on the installation's storm water discharges to water, the type of on-site abatement, as well as details of the receiving water.

**Table 6.2: Proposed storm water discharge point details**

Discharge Reference	Monitored parameters (monitoring frequency)	Abatement	Drainage areas	Discharging to
SW-1	Visual (weekly); COD/BOD (as required by the Agency)	Silt trap	Roofs and clean yards associated with poultry house 2	Field drain >> River Deel
SW-2	Visual (weekly); COD/BOD (as required by the Agency)	Silt trap	Roofs and clean yards associated with poultry house 1	Field drain >> River Deel
SW-3	Visual (weekly); COD/BOD (as required by the Agency)	Silt trap	Roofs and clean yards associated with poultry houses 3 and 4	Field drain >> River Deel

The drain flows to the River Deel approximately 0.9 km downstream of the installation. The River Deel currently has a Water Framework Directive (WFD) status (2019-2024) of Moderate (waterbody code: IE\_SH\_24D021000). There is one identified drinking water abstraction point on the River Deel, approximately 10.5 km downstream of the installation.

The storm water discharged from the installation should be uncontaminated and, therefore, should have no qualitative impact on receiving waters.

The only period during which there is potential for contamination of surface waters is during removal of organic fertiliser from the poultry houses and when the houses are washed out. All wash water will be diverted to four underground wash water storage tanks. Wash water from the yards at the front of the houses flows into the same

collection drains which channel clean storm water to SW-1, SW-2 and SW-3; however, during the wash out of houses, this wash water is diverted by a diversion chamber into the wash water tanks for storage.

The applicant has stated that the proposed infrastructure, adherence to good management practices, and implementation of the required mitigation measures will mitigate the risk of storm water contamination.

The RD requires the following in relation to storm water management:

- That a storm water/rainwater collection and drainage system for all poultry houses on-site be provided and maintained (Condition 6).
- That all uncontaminated storm water be diverted to the storm water drainage system (Condition 6).
- That an up-to-date site drainage map be maintained on-site, and that the storm water drainage system be inspected weekly and always maintained properly (Condition 6).
- That inspection chambers at the outlets of the storm water drainage system be provided and maintained within three months of the date of grant of the licence (Condition 3).
- That a silt trap be provided and maintained on all existing storm water discharge points within three months of the date of grant of the licence (Condition 6).
- That wash water is diverted to the wash water storage tanks prior to the commencement of poultry litter removal and washing of the houses, until such time that wash down activities are completed, and that a written procedure and records of this are maintained (Condition 6).
- That the storm water discharge is visually inspected weekly and monitored for Chemical Oxygen Demand (COD) or Biological Oxygen Demand (BOD) as required by the Agency, in accordance with *Schedule B.5 Storm Water Discharge Monitoring*.

The RD contains standard conditions in relation to the storage and management of materials and wastes. The RD also requires that accident and emergency response procedures are put in place. The controls pertaining to accidents and emergencies are addressed in the Prevention of Accidents section later in this report.

#### 6.4 Noise

The main sources of noise at the installation include the operation of equipment, ventilation systems, the back-up generator, vehicle deliveries/collections, and animals. The N21 roadway is approximately 450 m from the installation. As mentioned earlier, the nearest third-party residential dwelling is approximately 50 m away.

Free-range birds will be outside during daylight hours only and confined to the poultry houses during nighttime hours. Feeding activities will only be carried out indoors. The applicant has calculated that birds will be outside of the poultry houses for approximately 20 weeks of the year once stocked at full capacity, and there will be approximately 20 % of the birds outside at any one time. Birds will be confined to the poultry houses for the entire rearing cycle when being raised conventionally.

No noise complaints have been received by the Agency, the HSE or the applicant. No submissions have been received outlining that noise is a cause for concern from the installation.

Noise emissions will primarily be minimised by implementing good management practices. Noise conditions and emission limit values, which apply at the noise-sensitive locations, have been included in the RD.

- Noise from the installation shall not exceed the limit values set out in *Schedule B.4 Noise Emissions* of the RD at noise sensitive locations (Condition 4).
- The use of one or a combination of the techniques listed in BAT 10 to prevent/reduce noise emissions from the site (Condition 6).
- A requirement that a noise survey be carried out of the site operations, as required by the Agency (Condition 6).



## 7 Waste Generation

Certain wastes are generated on-site as part of the licensable activity. Waste generated on-site will mainly comprise of fallen stock (animal carcasses), veterinary/chemical waste containers and general waste. The total quantities estimated to be generated are given in **Table 7.1** below. The applicant will employ a number of measures at the installation for the prevention and/or minimisation of waste.

**Table 7.1: Estimated waste generation**

Waste Type	Estimated quantity (tonnes) per annum
Animal Carcasses	8.5
General Waste	1
Paper and Cardboard	1

In accordance with the hierarchy specified in the IED, waste generated at the site will, in order of priority, be minimised, be prepared for re-use, recycling, recovery or disposal. Conditions relating to waste management have been included in Condition 8 of the RD. Carcasses will be stored temporarily on-site in covered skips, before being transported to an appropriately licensed installation.

A fly and rodent control programme will be developed to cover the installation. The programme as implemented will be in line with Bord Bia and Department of Agriculture, Food and The Marine requirements.

Condition 3 of the RD requires the applicant to establish, maintain and implement a pest control programme in accordance with relevant DAFM guidelines. These guidelines take account of the requirements of the Campaign for Responsible Rodenticide Use (Ireland).

## 8 Organic Fertiliser

The installation will necessarily generate organic fertiliser (poultry litter and wash water, including soiled/wash water). Details are given in Table 8.1 below.

**Table 8.1: Organic fertiliser**

	Wash water	Poultry litter
Quantity produced per annum.	140 m <sup>3</sup>	600 tonnes
Number of storage tanks on-site	4	0
Total storage capacity on-site (ex. freeboard)	70.6 m <sup>3</sup>	N/A
No. weeks storage on-site	26	0
End use off-site	Landspreading by applicant	Mushroom composting via contractor / Landspreading via contractor
Contractor Name	N/A	Dore Poultry Services Ltd.
Contractor DAFM No.	N/A	HAC2348

Condition 8 of the RD requires that the applicant maintains a record of organic fertiliser sent off-site for use on land or for compost production in accordance with the requirements of the Nitrates Regulations<sup>5</sup>. The applicant will be

<sup>5</sup> S.I. No. 113 of 2022 European Union (Good Agricultural Practice for Protection of Waters) Regulations 2022, as amended.

required under the licence to submit to DAFM by the 31<sup>st</sup> of December annually details in relation to the quantity of organic fertiliser (poultry litter and wash water) exported (Record 3 form) off-site. The record must also be maintained at the installation for inspection by the Agency, Local Authority or DAFM. DAFM may use the record of export of organic fertiliser to identify the recipient of the organic fertiliser and the quantity received.

The Animal By-product (ABP) Regulations<sup>6</sup> impose legal requirements on the applicant, the 'commercial haulier' and the user of the organic fertiliser. These requirements include use of a 'commercial document' to record details required under the regulations. The applicant will be required to receive a completed copy of the 'commercial document' from the transporter confirming the final destination.

Other than defecation in the range areas, there will be no landspreading of organic fertiliser conducted and/or permitted within the installation boundary, and consequently there will be no additional ammonia emissions from landspreading activities within the installation boundary. It is important to note that the IE licence relates to the site of the activity for which the licence application is made and does not extend to the lands on which organic fertiliser may be used as fertiliser. The Nitrates Regulations specify when organic fertiliser can be applied to land and the application rates, and these are enforced by the DAFM and Local Authorities.

### 8.1 Organic Fertiliser (Poultry Litter)

Under the ABP Regulations, poultry litter is categorised as a category 2 Animal By-product and the options for its disposal/recovery are set out in Article 13 of Regulation 1069/2009, as amended.

Poultry litter must be transported either by the applicant (or staff member) or by a haulier registered with the Department of Agriculture, Food and the Marine. Poultry litter will be moved off-site by an approved and registered contractor for use in mushroom compost production or by other customer farmers for use as an organic fertiliser.

The DAFM provides detailed Codes of Practice for the handling and use of poultry litter, which includes, amongst other things, disease prevention (poultry litter may cause botulism in cattle on the farm on which it is spread and neighbouring farms).

The application includes a letter from Dore Poultry Services Ltd., confirming they will take poultry litter from the installation (details given in Table 8.1 above).

The Nitrates Regulations (Article 11(1)) require that a minimum of 26-weeks' storage capacity for organic fertiliser is provided. The applicant is exempt from this storage period once there is a contract in place for the removal of poultry litter by a registered contractor, as set out above. Such exemption is provided in accordance with Article 14(1) of the Nitrates Regulations. Condition 3 of the RD requires compliance with the relevant articles of the Nitrates Regulations, i.e. that either such a contract or the required storage is in place.

The quantity of nitrogen and phosphorus generated by the activity at the proposed licence capacity is approximately:

19,200 kg N per year, and

7,200 kg P per year,

based on figures available in the Nitrates Regulations (annual nutrient excretion rates for livestock)

The RD contains the following additional requirements relating to the management of poultry litter:

- To monitor the total nitrogen and phosphorus excreted in manure annually, in accordance with BAT 24 (Schedule B).

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<sup>6</sup> EU Animal By-Product Regulation (EC) No. 1069 of 2009 and Regulation (EU) No. 142 of 2011, given legal effect by The European Union (Animal By-Product) Regulations 2014 (SI No. 187/2014), laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal By-Products Regulation) as amended.

- To inspect the integrity of the floors of all deep litter houses after each wash down, repair any damaged or cracked floors as necessary, and maintain a record of inspections and any necessary remedial actions taken (Condition 6).
- That any organic fertiliser spilled to ground during loading, shall be collected and returned to storage or to the vehicle into which it was being loaded (Condition 8).

## 8.2 Wash water

Wash water will be generated by the activity every 8-10 weeks for free-range broilers. Prior to washing, the floors will be brushed to reduce the quantity of poultry litter that could potentially enter the wash water system. After washing, the houses are allowed to dry and then disinfectant applied. The wash water may contain insignificant quantities of disinfectant from the previous washing cycle.

Wash water details are given in Table 8.1 above. The total wash water storage capacity is sufficient to meet the 26-week storage capacity requirement in the Nitrates Regulations.

The wash water is considered suitable for use on land as an organic fertiliser and such use is provided for by the Nitrates Regulations and Animal By-product Regulations.

The applicant has identified approximately 8 ha of farmland on the applicant's landholding in the vicinity of the activity, outside the boundary to which this licence relates, on which the wash water will be landspread. The applicant has demonstrated in the application that the addition of wash water from the installation will not result in a stocking rate above 170 kg organic nitrogen per hectare stocking rate, the maximum specified in the Nitrates Regulations.

The RD contains the following conditions relating to the management of wash water:

- That wash water storage tanks be fitted with high liquid level indicators within three months of the date of grant of this licence of the activity for existing tanks and before utilisation for new tanks (Condition 3).
- That all storage tanks are integrity assessed within three months of date of grant of this licence for existing tanks and before utilisation for proposed tanks, and at least once every three years thereafter (Condition 6).
- That a combination of the techniques listed in BAT 6 be used to reduce the generation of wash water on-site (Condition 6).
- That one or a combination of the techniques listed in BAT 7 be used to reduce the emissions to water from wash water on-site (Condition 6).
- That a freeboard of at least 200 mm from the top of covered wash water storage tanks and 300 mm from the top of uncovered wash water storage tanks is maintained, as a minimum, at all times and that this is clearly indicated in the tank (Condition 6).
- That the loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off (Condition 8).

## 9 Energy Efficiency and Resource Use

The operation of the installation involves the consumption of fuel, electricity and resources. The proposed quantities to be used at a capacity of 80,000 birds are given below.

**Table 9.1: Estimated resource usage**

Resource	Quantity per annum
Electricity	85,000 kWh
Liquified Petroleum Gas	21,600 m <sup>3</sup>
Water (Public Supply)	4,250 m <sup>3</sup>
Water Abstraction registration required:	No

Resource	Quantity per annum
Feed	2,200 t
Kerosene/Diesel	Back-up generator only

The applicant employs a variety of technologies to maximise the efficient use of energy within the installation, including regular preventative maintenance of equipment, use of energy efficient lighting systems and thermal insulation.

The RD specifies that the applicant undertake the following in relation to energy and resource efficiency:

- Annual maintenance of the animal house heating systems and the back-up generator (Condition 3).
- To install and maintain a water meter on all water supplies (Condition 3) within three months of the date of grant of this licence.
- To use a combination of the techniques listed in BAT 8 (efficient use of energy) and BAT 5 (efficient use of water) (Condition 7).
- To undertake an assessment of the efficient use of resources and energy in all site operations and to undertake an energy audit, repeated at intervals as required by the Agency with the recommendations of the audit being incorporated into the Schedule of Environmental Objectives and Targets as outlined in Condition 2 (Condition 7).

## 10 Prevention of Accidents

A certain amount of accident risk is associated with the licensable activity. For this installation, potential accidents and measures for prevention/limitation of consequences are given in the table below.

**Table 10.1: Potential accidents and measures for prevention/limitation of consequences**

Potential accidents and measures to prevent	
Potential for an accident or hazardous/emergency situation to arise from activities at the installation	<ul style="list-style-type: none"> <li>• Surface water and/or ground/groundwater contamination during poultry removal and washing.</li> <li>• Surface water and/or ground/groundwater contamination by spillage of organic fertiliser, fuel or other polluting materials.</li> <li>• Surface water and/or ground/groundwater contamination due to leaks from tanks.</li> <li>• Accidental diversion of wash water to storm water drainage system.</li> <li>• Accidental emissions of noise, dust or odour such as to cause nuisance outside the site boundary.</li> </ul>
Preventative/Mitigation measures to reduce the likelihood of accidents and mitigate the effects of the consequences of an accident at the installation	<ul style="list-style-type: none"> <li>• The provision and maintenance of adequate wash water storage facilities.</li> <li>• The storage of potentially polluting liquids in bunded areas.</li> <li>• The provision of concrete aprons around wash water areas.</li> <li>• The protection of gas/fuel tanks from accidental damage.</li> <li>• The separation of wash water and clean storm water, including diversion of the storm water collection system to wash water holding tank during cleaning.</li> </ul>
Additional measures provided for in the RD	<ul style="list-style-type: none"> <li>• Integrity assessment and maintenance of the wash water network and poultry house floors as required (Condition 6).</li> <li>• The regular visual examination and inspection of the storm water discharge points and storm water drainage system (Condition 6).</li> <li>• No storage of organic fertiliser (poultry litter) on-site, other than what is in the animal houses during the poultry rearing cycle at the installation (Condition 8) or deposited in the free-range areas.</li> </ul>

	<ul style="list-style-type: none"> <li>• The provision of more than 26-weeks organic fertiliser (wash water) storage capacity (Condition 3).</li> <li>• Accident prevention and emergency response procedures requirements (Condition 9).</li> <li>• A preventative maintenance programme (Condition 2).</li> </ul>
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The risk of accidents and their consequences, and the preventative and mitigation measures listed above, have been considered in full in the assessments carried out throughout this report. It is considered that the conditions of the RD and the mitigation measures proposed will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of such an event should it occur.

## 11 Cessation of Activity

A certain amount of environmental risk is associated with the cessation of any licensable activity (site closure). The applicant has provided a list of measures to be taken in the event of site closure/cessation of activity. These measures are listed in attachment 9.1 of the application form. Condition 10 of the RD requires the proper closure of the activity with the aim of protecting the environment.

### Baseline Report

Where an activity involves the use, production or release of Relevant Hazardous Substances, and having regard to the possibility of soil and groundwater contamination at the site of the installation, the IED requires operators to prepare a baseline report. A baseline screening assessment was undertaken by the applicant, in accordance with Stages 1 to 3 of European Commission Guidance<sup>7</sup>.

The screening assessment determined that, considering the type and quantity of substances used as part of the activity, the location of these substances on the site, in view of the soil and groundwater characteristics, and the measures to be taken to prevent accidents and incidents, the possibility of soil and groundwater contamination at the site of the installation is considered to be low. I am satisfied that a full baseline report (stages 4 to 8) is not required.

Nonetheless, upon cessation of the activity, Condition 10 of the RD requires the applicant to take certain measures to ensure that there is, to the satisfaction of the Agency, no remaining risk of environmental pollution at the site.

## 12 Fit and Proper Person

### Technical Ability

The applicant has operated a poultry farm at the site for many years. It is considered that the applicant has demonstrated the technical knowledge required to operate this installation.

### Legal Standing

Neither the applicant nor any relevant person has relevant convictions under the EPA Act, or under any other relevant environmental legislation.

### ELRA, CRAMP and Financial Provision

The licence category and proposed installation were assessed for the requirements of Environmental Liabilities Risk Assessment (ELRA), Closure, Restoration and Aftercare Management Plan (CRAMP) and Financial Provision (FP), in

<sup>7</sup> European Commission Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on industrial emissions.

accordance with Agency guidance. Under this assessment it has been determined that ELRA, CRAMP and FP were not required.

### Fit and Proper Conclusion

It is my view that the applicant can be deemed a Fit and Proper Person for the purpose of this application.

## 13 Submissions

There was one submission made on this application. While the main points raised in the submission are briefly summarised in the table below, the original submission should be referred to for greater detail and expansion of particular points.

The issues raised in the submission are noted and addressed in this Inspector's Report and the submission was taken into consideration during the preparation of the Recommended Determination (RD).

**Table 13.1: Submissions summary**

1.	<b>Name &amp; Position:</b>	<b>Organisation:</b>	<b>Date received:</b>
	<i>Mr. Andrew Curtin, Principal Environmental Health Officer</i>	<i>National Environmental Health Service, Health Service Executive (HSE)</i>	<i>03 December 2024</i>
	<p><b>Issues raised:</b>  <i>The HSE submission, submitted by Andrew Curtin, is based on a report prepared by Arlene Ward, Environmental Health Officer. The submission makes a number of observations in relation to the licence application. The issues raised include planning/site history, soiled water (wash water), surface and ground water, odour, dust, noise, pest control and waste management. The HSE also confirmed in their submission that they have not received any complaints relating to the installation to date.</i></p> <p><i>Specific recommendations and observations highlighted by the HSE include:</i></p> <ul style="list-style-type: none"> <li><i>There are approximately 10-15 dwellings within a 400 m radius of the application site.</i></li> <li><i>The HSE recommends that storm water and the storm water collection system be monitored regularly and that valves be placed at water diversion points to give added protection when unloading soiled water tanks.</i></li> <li><i>Wash water from the poultry houses will be diverted to dedicated wash water tanks. The HSE makes recommendations in relation to the construction, maintenance and inspection of tanks and any other storage structures. They further recommend that the wash water tanks have high level monitors installed.</i></li> <li><i>Manure is removed off-site by an authorised contractor. They recommend that poultry litter is not removed from the houses during periods of heavy rain to prevent contamination of the storm water. The HSE recommends that the applicant conform to the Nitrates Regulations in relation to transport of organic fertiliser off-site. It is recommended that the licensee monitors ground nutrients on his lands by way of a Nutrient Management Plan which should be updated annually.</i></li> <li><i>The HSE recommends that adequate storage and removal of dead bird carcasses and other wastes is required on-site.</i></li> <li><i>The HSE recommends that a programme for the inspection and maintenance (as required) of ventilation fans to minimise any potential impact of noise from the ventilation fans on sensitive receptors.</i></li> <li><i>The HSE do not foresee adverse effects from odour if the management practices outlined in the application are implemented.</i></li> </ul>		

- *The HSE recommends that a formal complaints procedure should be implemented on-site to address traffic, dust, water, noise, odour or nuisance complaints and to ensure that complaints can be investigated and addressed in a timely manner.*
- *All potentially polluting products (fuels, detergents etc.) to be stored in appropriately bunded/secured areas.*
- *A pest/vector control programme should be implemented on-site.*

#### **Agency response:**

The main issues raised in the submission are noted and addressed in the relevant sections of the Inspector's Report.

- The Agency has determined the closest third-party dwelling to be 50 m northeast of the poultry houses.
- All clean storm water is diverted away from soiled areas of the site to the storm water collection system and discharged to surface water. A silt trap will be provided on all existing storm water discharge points within three months of the date of grant of the licence. The 'Emissions to Water and Ground' and 'Storm Water Discharges' sections of this report contain more information on this. The RD includes conditions in relation to the protection of water.
- The RD requires conditions in relation to wash water storage, tank specifications, integrity assessment, high level indicators, and leak detection. Further information on wash water can be found in the 'Organic Fertiliser' section of this report.
- Other than defecation in the range areas, there will be no landspreading of organic fertiliser conducted and/or permitted within the installation boundary. The applicant has confirmed that there is a contract in place for the removal of poultry litter by a registered contractor. The 'Organic Fertiliser' section of this report has more information in relation to poultry litter generated at the installation.
- Landspreading of organic fertiliser occurs outside of the licensed boundary and will be carried out in accordance with the Nitrates Regulations and Animal By-product Regulations. This is enforced by the DAFM and the Local Authorities.
- The RD requires that potentially polluting liquids are stored in bunded areas.
- The 'Waste' section of this report contains further information in relation to waste generation and management at the installation, including poultry tissue waste (carcasses).
- The 'Odour' section of this report contains further information in relation to odour. The RD includes conditions in relation to odour from the activity.
- The 'Noise' section of this report contains further information in relation to noise. The RD includes conditions in relation to noise from the activity.
- The 'Dust' section of this report contains further information in relation to dust. The RD includes conditions in relation to dust from the activity.
- Pest control is addressed in the 'Waste Generation' section of this report.

## **14 Consultations**

### **14.1 Cross Office Consultation**

The Industrial Control & Environmental Regulation (ICER) and the Office of Environmental Enforcement (OEE) routinely liaise in relation to the licensing of the intensive agricultural sector. This in part has informed the assessment of this application.

### **14.2 Transboundary Consultations**

There were no transboundary consultations undertaken as no transboundary impacts were identified.

## 15 Appropriate Assessment

Appendix 2 lists the European sites assessed, their associated qualifying interests and conservation objectives.

A screening for Appropriate Assessment (AA) was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Sites at Lower River Shannon SAC (002165), Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA (004161), Askeaton Fen Complex SAC (002279), Barrigone SAC (000432), Blackwater River (Cork/Waterford) SAC (002170), River Shannon and River Fergus Estuaries SPA (004077), Tory Hill SAC (000439), and Curraghchase Woods SAC (000174).

The activity is not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it can be excluded, on the basis of objective information, that the activity, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment (AA) of the activity was not required. This determination has been made in light of the following reasons:

- In relation to air emissions, the output of the online screening tool SCAIL Agriculture (<https://www.scail.ceh.ac.uk>) predict that ammonia emissions and nitrogen deposition as a result of the activity will not have a significant effect on sensitive receptors within the European Sites listed above.
- Regard has been had to the EPA's Licence Application Guidance Assessment of the Impact of Ammonia and Nitrogen on Natura 2000 Sites from Intensive Agriculture Installations, Version 2, March 2023) in addition to the online screening tool SCAIL Agriculture as part of this Appropriate Assessment Screening Determination.
- The closest European site is approximately 4.7 km away.
- It is proposed that storm water run-off from the roof and paved areas will be discharged to ground. There will be no other direct discharge to surface waters or groundwater within the installation boundary.
- There is no surface water pathway connecting the installation to any of the European sites.
- The risk of surface water or groundwater contamination because of accidental emissions during washing activities, or from spillage from the wash water tanks, is minimal given the distance between the activity and the European sites.
- The quantity and type of waste produced by the activity per annum is not considered significant.
- The litter generated at the installation has high dry matter content.
- The litter remains within the concrete-floored covered broiler houses until all broilers are removed at the end of the batch. Therefore, there is no pathway between the litter and surface water/groundwater while the houses are stocked.
- When the houses are destocked, the litter is removed from the animal houses and taken off-site.
- Calculations have been supplied regarding nutrient stocking rates of the free-range areas and demonstrate that the range areas have capacity to accept the increased load when the birds are outside.
- It is proposed that wash water will be applied to farmlands in accordance with the Nitrates Regulations. It is proposed that poultry litter will be transported by a contractor to composting facilities or may be used as an organic fertiliser on farmlands in accordance with the Nitrates Regulations. The licence, if granted, relates to the site of the activity for which the licence application is made, i.e. the rearing of poultry within the installation boundary, and does not extend to the lands beyond the installation boundary on which wash water may be spread or organic fertiliser may be used.
- Activities which can take place within European sites are restricted by legislation. All persons must obtain the written consent from the relevant Minister before performing particular operations on, or affecting, particular habitats where they occur on lands within the SACs and/or SPAs.
- The closest European site is approximately 4.7 km away from the installation boundary (Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA) and is considered outside of the zone of influence of noise emissions arising at the installation.



- Given the distance from the installation to European sites and the nature and scale of emissions, it is considered that the activity in combination with other plans or projects will not have a significant effect on European Sites.

There were no submissions on this application concerning Appropriate Assessment.

## 16 Environmental Impact Assessment

### 16.1 EIA Introduction

The application was accompanied by an Environmental Impact Statement (EIS). The EIS submitted with this application was the same EIS submitted to the Planning Authority as part of planning permission ref. 12/245 and was submitted to the planning authority prior to 15 May 2017. Therefore, this assessment is being undertaken in accordance with the requirements of Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment.

As part of this environmental impact assessment, I have carried out an examination, analysis and evaluation of all the information provided by the applicant (including the EIS), information received through consultation, the documents associated with the assessments carried out by Limerick City and County Council and An Bord Pleanála and their reasoned conclusions, and the issues that interact with the matters that were considered by those authorities and which relate to the activity, written submission, as well as considering any supplementary information where appropriate. All of the documentation received was examined and I consider that the EIS complies with the provisions of Article 5 of the 2011 EIA Directive when considered in conjunction with the additional material submitted with the application.

I am satisfied that the environmental effects arising as a consequence of the activity have been satisfactorily identified, described and assessed.

Having specific regard to EIA, this Inspector's Report as a whole is intended to identify, describe and assess for the Agency the likely significant direct and indirect effects of the activity on the environment, as respects the matters that come within the functions of the Agency, for each of the following environmental factors: human beings, fauna and flora, soil, water, air, climate, the landscape, material assets and the cultural heritage.

This Inspector's Report addresses the interaction between those effects and the related development forming part of the wider project. The cumulative effects, with other developments in the vicinity of the activity have also been considered, as regards the combined effects of emissions. The mitigation measures proposed to address the range of predicted significant effects arising from the activity have been outlined. This Inspector's Report provides conclusions to the Agency in relation to such effects.

A summary of the submission made by a third party has been set out above in the 'Submissions' section of this report.

I am satisfied that the public have been given early and effective opportunity to participate in the environmental decision-making procedure.

### 16.2 Consultation with Planning Authorities in relation to EIA

Consultation was carried out between Limerick City and County Council, An Bord Pleanála and the Agency under the relevant section of the EPA Act.

Limerick City and County Council and An Bord Pleanála did not provide any observations to the Agency on the licence application or EIS.

### 16.3 Consultation with other competent authorities

There was no consultation with other competent authorities in relation to this application.

## 16.4 Alternatives

The matter of alternatives is addressed in Chapter 3 of the EIS. It examines several alternative layouts and sites. The proposed site was considered the most suitable due to topography, access and proximity to the existing enterprise, which is necessary to avoid unnecessarily increasing operational costs. The house design is in line with BAT and scale is sufficient to cover development and operational costs.

In this regard I consider that the matter of the examination of alternatives has been satisfactorily addressed.

## 16.5 Likely Significant Direct and Indirect Effects

The likely significant direct and indirect effects of the activity on the following factors as set out in Article 3 of the EIA Directive are considered in this section:

- a) human beings, fauna and flora;*
- b) soil, water, air, climate and the landscape;*
- c) material assets and the cultural heritage;*
- d) the interaction between the factors referred to in points (a), (b) and (c).*

### 16.5.1 Human beings

#### Identification, Description and Assessment of Effects

Human beings are mainly addressed in Chapters 5 and 6 of the EIS. The potential direct and indirect effects on human beings are associated with emissions to air, dust, odour, noise emissions, emissions to water, waste generation, and accidental emissions. Should emissions cause an exceedance of environmental quality standards, this could have implications for human beings.

The effects identified and described above have been assessed in the following sections of the licence assessment part of this report:

- Emissions to Air,
- Emissions to Water and Ground,
- Noise,
- Waste Generation,
- Organic Fertiliser, and
- Prevention of Accidents.

There is also the potential for accidental emissions to the environment, due to human error or failure of containment infrastructure. Accidental emissions are addressed in the 'Prevention of Accidents' section of this report.

Cumulative effects of the activity in relation to human beings have been assessed and it is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

#### Mitigation and Monitoring

Mitigation measures and monitoring in relation to human beings are detailed in the following sections of this report:

- Emissions to Air,
- Emissions to Water and Ground,
- Noise,
- Waste Generation,
- Organic Fertiliser, and
- Prevention of Accidents.

#### Conclusions

I have examined all the information on human beings, provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of human beings.

### 16.5.2 Fauna and flora

#### **Identification, Description and Assessment of Effects**

Fauna and flora are mainly addressed in Chapter 8 of the EIS. The EIS describes the habitats and species at and in the vicinity of the installation. The proposed expansion to the installation will be built on an area of improved grassland, adjacent to the existing farm complex. No protected species were identified on-site during a site survey undertaken as part of the EIS production. There are eight Natura 2000 designated sites within 25 km of the application site, the closest being 4.7 km away from the installation. The site of the application is typical of the agricultural nature of the surrounding land.

The applicant also submitted an Appropriate Assessment Screening Report (Refer to the Appropriate Assessment section of this report).

The potential direct and indirect effects on fauna and flora are related to effects on aquatic flora and fauna and their habitats due to effects on water quality, disturbance to fauna due to noise emissions, and effects due to air emissions (e.g. ammonia emissions and nitrogen deposition). The effects identified and described above have been assessed in the following sections of this report:

- Emissions to Air,
- Emissions to Water and Ground,
- Storm Water Discharges,
- Waste Generation,
- Noise,
- Organic Fertiliser, and
- Prevention of Accidents.

There is also the potential for accidental emissions to the environment, due to spillages or human error, which may impact on fauna and flora. Accidental emissions are addressed in the Prevention of Accidents section earlier in this report. Landspreading of organic fertiliser could impact on water quality, however, this occurs outside of the licensed boundary. This must be carried out in accordance with the Nitrates Regulations and Animal By-product Regulations, which are enforced by DAFM and the Local Authorities. In addition, the Government's Food Vision 2030 was published in August 2021 and sets out four high level mission statements for the Agri-Food sector. This document proposes more targeted agri-environmental schemes under the CAP Strategic Plan to protect Ireland's habitats and species from emissions from the agricultural sector. This Agri-Food Strategy (AFS) also included an Appropriate Assessment (AA) which concluded that "the adoption of the AFS would not have significant adverse effects on the integrity of any Natura 2000 sites with the inclusion of the mitigation recommendations."

Cumulative effects of the activity in relation to fauna and flora have been assessed and it is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

#### **Mitigation and Monitoring**

Mitigation measures and monitoring in relation to fauna and flora are detailed in the following sections of this report:

- Emissions to Air,
- Emissions to Water and Ground,
- Storm Water Discharges,
- Waste Generation,

- Noise,
- Organic Fertiliser, and
- Prevention of Accidents

## Conclusions

I have examined all the information on fauna and flora, provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of biodiversity.

### 16.5.3 Soil

#### Identification, Description and Assessment of Effects

Soil is addressed in Chapter 10 of the EIS. The installation will be located adjacent to the existing installation in a fertile, productive agricultural area. This area has a relatively flat to gently undulating topography similar to a significant part of Co. Limerick and surrounding areas. Land use currently in the development area is improved agricultural grassland. Any potential contamination issues are dealt with in the 'baseline report' section of this report.

The potential direct and indirect effects on soil are associated with emissions to air, emissions to water, access to range areas and accidental emissions. Should emissions cause an exceedance of environmental quality standards, this could have implications for soil. The potential effects identified and described above have been assessed in the following sections of this report:

- Emissions to Air,
- Emissions to Water and Ground,
- Storm Water Discharges,
- Organic Fertiliser,
- Waste Generation,
- Prevention of Accidents, and
- Cessation of Activity.

There is also the potential for accidental emissions to the environment, due to spillages or human error, which may impact on soil. Accidental emissions are addressed in the 'Prevention of Accidents' section earlier in this report. Landspreading of organic fertiliser could impact on soil, however, this occurs outside of the licensed boundary. This must be carried out in accordance with the Nitrates Regulations and Animal By-product Regulations, which are enforced by DAFM and the Local Authorities.

The only emission to ground from the activity is animal defecation during the time that the birds have access to the range areas. This equates to a nutrient loading of 120 kg of nitrogen and 45 kg of phosphorus per hectare per annum, once stocked at the proposed 80,000 broilers, which is compliant with the Nitrates Regulations for nitrogen but has the potential to exceed these regulations for phosphorus unless mitigated correctly. As such, the Agency has reduced the free-range capacity to 71,000 broilers to lower the nutrient burden. However, the RD provides for the applicant to demonstrate that the soil type in the range area can sustainably support a higher stocking density, allowing for an increase in the free-range capacity subject to the Agency's approval.

Cumulative effects of the activity in relation to soil have been assessed and is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

#### Mitigation and Monitoring

Mitigation measures and monitoring in relation to soil are detailed in the following sections of this report:

- Emissions to Air,

- Emissions to Water and Ground,
- Storm Water Discharges,
- Organic Fertiliser,
- Waste Generation,
- Prevention of Accidents, and
- Cessation of Activity.

## Conclusions

I have examined all the information on soil, provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects on soil.

### 16.5.4 Water

#### Identification, Description and Assessment of Effects

Water is mainly addressed in Chapter 9 of the EIS. The site is above the Newcastle West groundwater body (Ref: IE\_SH\_G\_190) which has a WFD Status of 'Good' and a vulnerability of 'low' to 'moderate'.

The site lies within the Shannon Estuary South catchment area and Deel[Newcastlewest]\_SC\_040 sub-catchment. Storm water from the roof and yard area will discharge to a field drain along the northern boundary of the site via silt traps.

There are no process emissions to surface water from the site. The potential direct and indirect effects on water relate to storm water discharges. Should the discharges cause an exceedance of Water Quality Standards in the receiving water, this could have potential effects on water quality, aquatic biodiversity and human health. The effects identified and described above have been assessed in the following sections of this report:

- Emissions to Water and Ground,
- Storm Water Discharges,
- Organic Fertiliser, and
- Prevention of Accidents.

There is also the potential for accidental emissions to water or groundwater to occur. The likelihood of accidental emissions to water is considered low in light of the measures outlined in the 'Prevention of Accidents' section above and in light of the conditions in the RD. This is addressed in Prevention of Accidents section of this report.

The site is in a rural area with most of the developments in the vicinity of the installation being dwelling houses and farmyards. There are no other intensive agriculture EPA licensed installations within 5 km of the installation and one other significant industrial development (a plastics manufacturing installation). These installations are each required to operate in accordance with the conditions of an EPA licence and none have emissions to surface water. Due to the nature of those activities and the controls in place, it is considered that there will be no significant cumulative effect from storm water discharges from the activity and from other activities/developments in the area.

Landspreading of organic fertiliser, which occurs outside of the licensed boundary, could cause pollution of surface waters or groundwater. To prevent this, the application of fertilisers to land is controlled by the Nitrates Regulations. These give legal effect in Ireland to the Nitrates Directive and to our Nitrates Action Programme (NAP) and controls the management and application of livestock manure and other fertilisers. The NAP is required to be reviewed every four years. In 2022, the Department of Housing, Local Government and Heritage undertook an Appropriate Assessment of the current NAP (5<sup>th</sup> NAP 2022-2025), which included a Natura Impact Statement (February 2022) for Irelands NAP and concluded that the NAP would not result in adverse effects on European site integrity either alone or in combination with other plans and programmes.

As mentioned earlier, the AFS sets out four high level mission statements for the sector. One of its mission statements is to become a 'Climate smart, environmentally sustainable Agri-food sector'. This target is underpinned by seven goals one of which, to "Protect High Status Sites and Contribute to Protection & Restoration of Good Water Quality and Healthy Aquatic Ecosystems". The report identified five actions under this goal including protecting water from agricultural pollution and reduce use of agricultural pesticides. Its associated AA concluded "the adoption of the AFS would not have significant adverse effects on the integrity of any Natura 2000 sites with the inclusion of the mitigation recommendations."

The National River Basin Management Plan (2022-2027) was published in September 2024. Over the period of this river basin planning cycle, there are measures being undertaken to meet the environmental objectives of the WFD. These include measures such as implementation of the Nitrates Action Programme (Nitrates Regulations) and associated inspection regime. Targeted monitoring as envisaged under the Plan allied with multi-party enforcement (EPA/Local Authority/DAFM) provides an early warning of potential problems/improvements and of the possible need to adapt the Plan to ensure protection of our waters.

Cumulative effects of the activity in relation to water have been assessed and is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

### **Mitigation and Monitoring**

Mitigation measures and monitoring in relation to water are detailed in the following sections of this report:

- Emissions to Water and Ground,
- Storm Water Discharges,
- Organic Fertiliser, and
- Prevention of Accidents.

### **Conclusions**

I have examined all the information on water (including storm water) provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects on water.

#### **16.5.5 Noise**

### **Identification, Description and Assessment of Effects**

Noise is mainly addressed in Chapter 6 of the EIS. The installation is located in a rural area, with most development in the area consisting of farms and single residential dwellings. The potential direct and indirect effects of noise associated with the operation of the activity are the potential to cause nuisance for those living near the activity or to affect noise sensitive species near the site. The effects have been assessed in the 'Noise' section of this report.

There is also the potential for accidental noise emissions. This is addressed in the 'Prevention of Accidents' section of this report.

Cumulative effects of the activity in relation to noise have been assessed and is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

### **Mitigation and Monitoring**

Mitigation measures and monitoring in relation to noise are detailed in the 'Noise' section of this report.

### **Conclusions**

I have examined all the information on noise provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of noise.

#### 16.5.6 Air

##### Identification, Description and Assessment of Effects

Air is mainly addressed in Chapter 5 of the EIS. The potential direct and indirect effects on air are associated with emissions to air of ammonia, dust and odour from the poultry housing, and dust from the installation yard. Should emissions cause an exceedance of air quality standards or critical levels/loads, this could have implications for air quality, human health and biodiversity within and beyond the site boundary. General site dust and odour emissions have the potential to impact human health and cause nuisance.

The effects identified and described above have been assessed in the following sections of this report:

- Emissions to Air,
- Organic Fertiliser, and
- Prevention of Accidents.

There is also the potential for accidental emissions to the environment. This is addressed in the 'Prevention of Accidents' section of this report.

In relation to cumulative effects, it is noted that there are no other EPA-licensed intensive agriculture installations, and one EPA licensed activity (a plastics manufacturing installation) within 5 km of the installation.

Emissions to air from this licensed activity has been considered during the licensing process and as they are required to comply with the conditions of their licence, this installation should not have any significant emissions of odour, dust or ammonia under normal operations. In this assessment, it has already been determined that emissions to air from the installation will not significantly affect local air quality.

A screening model (SCAIL) was used, which took into account the background levels of ammonia, and it is considered that there is not likely to be a significant cumulative effect on sensitive receptors as a result of the ammonia emissions from the installation and those generated by other activities/developments in the area.

As stated previously, the Agency has issued a guidance document to assist applicants in undertaking an assessment of the impacts of ammonia and nitrogen, including cumulative assessments, titled '*Licence Application Instruction Note 1 (IN1) Assessing the Impact of Ammonia Emissions and Nitrogen Deposition from Intensive Agriculture Installations on European Sites*' (Version 3, September 2024).

According to '*Ireland's Informative Inventory Report 2025*' (EPA, 2025), which contains the most recent data, ammonia emissions in 2023 from the poultry sector were 5.2 kt (or 4.5% of Ireland's National emissions). This installation will emit 7.0 tonnes per annum. In December 2020, the Government issued '*Ag Climatise – A Roadmap towards Climate Neutrality*'. This is a roadmap of actions for agriculture to cut GHG emissions as well as ammonia emissions significantly over the next decade, and up to 2050. The road map lists actions aiming to reduce the cumulative impact of ammonia emissions from the sector.

As mentioned earlier, the AFS sets out four high level mission statements for the sector one of which is to become a 'Climate smart, environmentally sustainable Agri-food sector'. Another of its seven goals is to develop a climate neutral food system by 2050 and improve air quality. As stated, its associated AA concluded "the adoption of the AFS would not have significant adverse effects on the integrity of any Natura 2000 sites with the inclusion of the mitigation recommendations."

As detailed previously in the 'Emissions to Air' section of this report, Ireland is addressing ammonia emissions (including emissions from landspreading) in accordance with the NECD and S.I. No. 232/2018, European Union (National Emission Ceilings) Regulations 2018. The Code of Good Agricultural Practice as referred to earlier in this

report contains guidelines on topics including *inter alia* low emission spreading and fertiliser management, as well as animal feed and housing.

Approximately 3.1% of the ammonia emissions that originate from landspreading in Ireland come from the poultry sector. This equates to 0.8% of Ireland's total ammonia emissions. The organic fertiliser generated by the activity represents a negligible quantity relative to the total quantity of organic fertiliser arising from the livestock sectors in Ireland (cattle, sheep, pigs and poultry).

Cumulative effects of the activity in relation to air have been assessed and it is considered that there is not likely to be a significant cumulative effect from the activity and other activities/developments. There are no likely significant direct, indirect or cumulative effects identified.

### **Mitigation and Monitoring**

Mitigation measures and monitoring in relation to air, including ammonia, dust and odour, are detailed in the following sections of this report:

- Emissions to Air,
- Organic Fertiliser, and
- Prevention of Accidents.

### **Conclusions**

I have examined all the information on air (including ammonia, dust and odour) provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of air (including ammonia, dust and odour).

#### **16.5.7 Climate**

##### **Identification, Description and Assessment of Effects**

Chapter 5 of the EIS addresses Climate. Climate change is a significant global issue which affects weather and environmental conditions (air, water and soil) which consequently affects population and human health, material assets, cultural heritage, the landscape and biodiversity. Climate change is caused by warming of the climate system by enhanced levels of atmospheric greenhouse gases (GHG) due to human activities. GHGs are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), nitrogen trifluoride (NF<sub>3</sub>) and sulphur hexafluoride (SF<sub>6</sub>).

The installation does not operate under a GHG Permit in accordance with the European Communities (Greenhouse Gas Emissions Trading) Regulations 2024, (S.I. 470 of 2024) (the EU ETS). Therefore, this site is not subject to these Regulations. It is therefore a requirement of the IED to investigate how direct emissions of CO<sub>2</sub> might be minimised.

Indirect emissions of CO<sub>2</sub> may arise due to the use of electricity from the national grid. These emissions are covered under the EU ETS at the generating plant, but the applicant is also required to address electricity usage as part of energy efficiency management.

The Irish Government approved "Ireland's Climate Action Plan (CAP25)" on 15 April 2025, which is the fourth annual update to Climate Action Plan 2019 and the third to be prepared under the Climate Action and Low Carbon Development (Amendment) Act 2021.

The potential direct and indirect effects on climate are associated with storage and spreading of organic fertiliser (litter) (nitrous oxide) and usage of fossil fuels (carbon dioxide).

However, any discussion of GHG emissions must be extended to national and global climate impact.



As part of the non-ETS (Emissions Trading Scheme) sector the GHG emissions from this site are covered by Ireland's commitments under the Effort Sharing Decision (Decision No 406/2009/EC) and the Effort Sharing Regulation (Regulation (EU) 2018/842) from 2021.

Given the small quantity of climate altering substances that could be released from the activity, in a national context, I consider that the impact of any emissions from the installation on climatic considerations should be minimal.

It is considered that the likelihood of accidental emissions occurring which could affect climate is low in light of the measures outlined in the 'Prevention of Accidents' section above and the proposed conditions in the RD. Therefore, there are no likely significant direct, indirect or cumulative effects identified.

### **Mitigation and Monitoring**

Mitigation measures and monitoring in relation to climate are detailed in the following sections of this report:

- Emissions to Air,
- Organic Fertiliser,
- Prevention of Accidents, and
- Energy Efficiency.

Conditions 2 and 7 of the RD deal with energy efficiency matters at the installation.

### **Conclusions**

I have examined all the information on climate provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of climatic factors.

#### **16.5.8 The Landscape**

##### **Identification, Description and Assessment of Effects**

The potential direct and indirect effects on the landscape are described in Chapter 7 of the EIS. Any disturbance of the landscape has the potential to impact on human beings and their enjoyment of the surrounding area due to visual impacts. These matters are dealt with in the decision of the planning authority and An Bord Pleanála to grant planning permission for the developments on-site and are not controlled by the Agency. The planning authority has considered the effects to be acceptable.

The installation is located in a rural, predominantly agricultural area. Emissions from the operation of the activity will not affect the agricultural landscape of the area.

No significant cumulative effects on the landscape have been identified. Therefore, there are no likely significant direct, indirect or cumulative effects identified.

##### **Mitigation and Monitoring**

There are no specific mitigation measures or monitoring proposed in the RD.

##### **The Landscape Conclusions**

These matters are dealt with in the decision of the planning authority and An Bord Pleanála to grant planning permission for the developments on-site and are not controlled by the Agency. They have considered the effects to be acceptable.

The RD does not propose to include any additional mitigation measures in relation to landscape.

## 16.5.9 Material Assets and Cultural Heritage

### 16.5.9.1 Material Assets (including resource use and waste generation)

#### Identification, Description and Assessment of Effects

Chapters 12 and 13 of the EIS addresses Material Assets, and include information on transport, agricultural and non-agricultural property, and resources (both natural and others) such as energy and water. Material assets such as roads and traffic and built services are dealt with in the decision of the planning authority and An Bord Pleanála to grant permission for the development and are not controlled by the Agency. The planning authority has considered the effect to be acceptable.

The use of natural resources by the activity will not have significant effects in terms of material assets. There are sufficient supplies of electricity and water to serve the requirements of the development. These matters are dealt with in the decision of the planning authority to grant planning permission for the developments on-site. The production of waste by the activity is assessed in the 'Waste Generation' section of this report.

The effects identified and described above have been assessed in the following sections of this report:

- Waste Generation, and
- Energy Efficiency and Resource Use.

No significant cumulative effects on material assets have been identified. Therefore, there are no likely significant direct, indirect or cumulative effects identified.

#### Mitigation and Monitoring

Mitigation measures and monitoring in relation to material assets are detailed in the following sections of this report:

- Waste Generation, and
- Energy Efficiency and Resource Use.

#### Material Assets Conclusions

I have examined all the information on material assets provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of Material Assets.

Material assets such as roads, traffic and built services are dealt with in the decision of the planning authority and An Bord Pleanála to grant planning permission for the developments on-site and they have considered the effects to be acceptable.

The RD does not propose to include any additional mitigation measures in relation to material assets.

### 16.5.9.2 Cultural Heritage

#### Identification, Description and Assessment of Effects

Chapter 14 of the EIS addresses the potential direct and indirect effects on cultural heritage. Any loss of archaeological or architectural heritage could impact negatively on human beings. These matters are dealt with in the decision of the planning authority and An Bord Pleanála to grant planning permission for the developments on-site and are not controlled by the Agency. The planning authority has considered the effect to be acceptable.

There are no buildings or features of architectural significance and three known archaeological features at or near the site of the installation. There are ringforts 80 m west, 390 m northwest, and 170 m south of the site. It is very difficult to envisage any pathway by which emissions from the operation of the activity could impact any feature which might be present.

No significant cumulative effects on the cultural heritage have been identified. Therefore, there are no likely significant direct, indirect or cumulative effects identified.

### **Mitigation and Monitoring**

There are no specific mitigation measures or monitoring proposed in the RD.

### **Cultural Heritage Conclusions**

These matters are dealt with in the decisions of the planning authority and An Bord Pleanála to grant planning permission for the developments on-site and are not controlled by the Agency. They have considered the effects to be acceptable.

The RD does not propose to include any additional mitigation measures in relation to cultural heritage.

#### **16.5.9.3 Overall Conclusions for Material Assets and Cultural Heritage**

I have examined all the information on material assets and cultural heritage provided by the applicant, received through consultations, written submission, as well as considering any supplementary information, where appropriate. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of material assets, cultural heritage and the landscape.

#### **16.5.10 Interactions Between Environmental Factors**

Interactions of effects are considered in Chapter 4 of the EIS. The most significant interactions between the factors as a result of the activity are summarised below.

##### **Human beings, air, and fauna and flora**

Potential effects from emissions to air may impact on human beings, air quality and flora and fauna as demonstrated in the 'Emissions to Air' section above. As demonstrated such effects are considered not to be likely or significant.

##### **Water, soil, and fauna and flora**

Accidental discharges of wash water or other substances to ground may directly and indirectly affect soil, groundwater quality, surface water quality downstream, aquatic habitats and aquatic flora and fauna. Indirect effects on soil, groundwater quality, surface water quality, habitats and flora and fauna may arise from landspreading wash water which arises from the activity. As demonstrated in the 'Emissions to Water and Ground' section above, such effects are not considered to be likely or significant.

### **Conclusions**

I have considered the interactions between population and human health, biodiversity, land, soil, water, air, climate, material assets, cultural heritage and landscape, and the interaction of the likely effects identified throughout this report. I am satisfied that the potential effects identified will be avoided, managed and mitigated by the measures identified and through the proposed conditions of the RD. I am, therefore, satisfied that the operation of the activity is not likely to have any unacceptable direct or indirect effects in terms of the interaction between the foregoing environmental factors.

#### **16.6 Reasoned Conclusion on the significant effects**

Having regard to the examination of environmental information contained above, and in particular to the content of the EIS and supplementary information provided by the applicant, and the submission from a third party in the course of the application and when supplemented by my assessment as contained in this report, it is considered that the potential significant direct and indirect effects of the activity on the environment are as follows:

- emissions to air,
- noise emissions, and
- accidental leakages or spills.

Having assessed those potential effects, I have concluded as follows:

- emissions to air will be mitigated through imposing emission limit values to comply with the CID, and implementing monitoring, maintenance and control measures,
- noise emissions will be mitigated through imposing daytime, evening-time and nighttime noise limits at noise sensitive locations, and implementing monitoring, maintenance and control measures, and
- accidental leakages or spills will be mitigated through inspection and maintenance of bunds and tanks, and accident and emergency requirements specified in the RD.

Having regard to the effects (and interactions) identified, described and assessed throughout this report, I consider that the monitoring, mitigation and preventative measures proposed will enable the activity to operate without causing environmental pollution, subject to compliance with the RD. The conditions of the RD and the mitigation measures proposed will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of an accidental emission should one occur.

## 17 EPA Charges

The annual enforcement charge recommended in the RD is €2,659, which reflects the anticipated enforcement effort required and the cost of monitoring.

## 18 Recommendation

The Agency, in considering an application for a licence or the review of a licence, shall have regard to section 83 of the EPA Act. The Agency shall not grant a licence or revised licence unless it is satisfied that emissions comply with relevant emission limit values and standards prescribed under regulation. In setting such limits and standards, the Agency must ensure they are established based on the stricter of either, or both, the limits and controls required under BAT, and those required to comply with any relevant environmental quality standard. The Agency shall perform its functions in a manner consistent with section 15 of the Climate Action and Low Carbon Development Act 2015 as amended.

The RD specifies the necessary measures to provide that the installation shall be operated in accordance with the requirements of section 83(5) of the EPA Act and has regard to the AA Screening and the EIA. The assessment is consistent with section 15 of the Climate Action and Low Carbon Development Act 2015 as amended. The RD gives effect to the requirements of the EPA Act and has regard to submissions made.

This report was prepared by Brian Coffey, Emily Mangan, Philip Stack and Éilis Linehan.

I recommend that a Proposed Determination be issued subject to the conditions and for the reasons as drafted in the RD.

Signed



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Éilis Linehan, ICER Inspector

**Procedural Note**

In the event that no objections are received to the Proposed Determination on the application, a licence will be granted in accordance with section 87(4) of the EPA Act, as soon as may be after the expiration of the appropriate period.

## Appendices

### Appendix 1 Maps/Drawings



Excerpt from the Site Layout Plan received by the Agency in support of the application on 21 September 2025.

## Appendix 2 AA table

Table 2A: List of European sites assessed, their associated qualifying interests and conservation objectives.

Site Code	Site Name	Qualifying Interests (* denotes a priority habitat)	Conservation Objectives
002165	Lower River Shannon SAC	<p><b>Habitats</b></p> <p>1110 Sandbanks which are slightly covered by sea water all the time</p> <p>1130 Estuaries</p> <p>1140 Mudflats and sandflats not covered by seawater at low tide</p> <p>1150 *Coastal lagoons</p> <p>1160 Large shallow inlets and bays</p> <p>1170 Reefs</p> <p>1220 Perennial vegetation of stony banks</p> <p>1230 Vegetated sea cliffs of the Atlantic and Baltic coasts</p> <p>1310 <i>Salicornia</i> and other annuals colonizing mud and sand</p> <p>1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)</p> <p>1410 Mediterranean salt meadows (<i>Juncetalia maritimi</i>)</p> <p>3260 Water courses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitricho-Batrachion</i> vegetation</p> <p>6410 <i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>)</p> <p>91E0 *Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (<i>Alno-Padion</i>, <i>Alnion incanae</i>, <i>Salicion albae</i>)</p> <p><b>Species</b></p> <p>1029 Freshwater Pearl Mussel (<i>Margaritifera margaritifera</i>)</p> <p>1095 Sea Lamprey (<i>Petromyzon marinus</i>)</p>	<p>NPWS (2012) Conservation Objectives: Lower River Shannon SAC 002165. Version 1.0. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht.</p> <p><a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002165.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002165.pdf</a></p>

Site Code	Site Name	Qualifying Interests (* denotes a priority habitat)	Conservation Objectives
		1096 Brook Lamprey ( <i>Lampetra planeri</i> ) 1099 River Lamprey ( <i>Lampetra fluviatilis</i> ) 1106 Atlantic Salmon ( <i>Salmo salar</i> ) (only in fresh water) 1349 Bottlenose Dolphin ( <i>Tursiops truncatus</i> ) 1355 Otter ( <i>Lutra lutra</i> )	
004161	Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA	<b>Species</b> A082 Hen Harrier ( <i>Circus cyaneus</i> )	NPWS (2022) Conservation Objectives: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA 004161. Version 1. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage. <a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO004161.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO004161.pdf</a>
002279	Askeaton Fen Complex SAC	<b>Habitats</b> 7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> * 7230 Alkaline fens	NPWS (2018) Conservation Objectives: Askeaton Fen Complex SAC 002279. Version 1. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht. <a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002279.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002279.pdf</a>
000432	Barrigone SAC	<b>Habitats</b> 5130 <i>Juniperus communis</i> formations on heaths or calcareous grasslands 6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites) 8240 Limestone pavements*  <b>Species</b> 1065 Marsh Fritillary ( <i>Euphydryas aurinia</i> )	NPWS (2019) Conservation Objectives: Barrigone SAC 000432. Version 1. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht <a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000432.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000432.pdf</a>



Site Code	Site Name	Qualifying Interests (* denotes a priority habitat)	Conservation Objectives
002170	Blackwater River (Cork/Waterford) SAC	<p><b>Habitats</b></p> <p>1130 Estuaries</p> <p>1140 Mudflats and sandflats not covered by seawater at low tide</p> <p>1220 Perennial vegetation of stony banks</p> <p>1310 <i>Salicornia</i> and other annuals colonising mud and sand</p> <p>1330 Atlantic salt meadows (<i>Glaucopuccinellietalia maritimae</i>)</p> <p>1410 Mediterranean salt meadows (<i>Juncetalia maritimi</i>)</p> <p>3260 Water courses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitriche-Batrachion</i> vegetation</p> <p>91A0 Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles</p> <p>91E0 *Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (<i>Alno-Padion</i>, <i>Alnion incanae</i>, <i>Salicion albae</i>)</p> <p><b>Species</b></p> <p>1029 Freshwater Pearl Mussel (<i>Margaritifera margaritifera</i>)</p> <p>1092 White-clawed Crayfish (<i>Austropotamobius pallipes</i>)</p> <p>1095 Sea Lamprey (<i>Petromyzon marinus</i>)</p> <p>1096 Brook Lamprey (<i>Lampetra planeri</i>)</p> <p>1099 River Lamprey (<i>Lampetra fluviatilis</i>)</p> <p>1103 Twaite Shad (<i>Alosa fallax</i>)</p> <p>1106 Atlantic Salmon (<i>Salmo salar</i>) (only in fresh water)</p> <p>1355 Otter (<i>Lutra lutra</i>)</p> <p>6985 Killarney Fern (<i>Vandenboschia speciose</i>)</p>	<p>NPWS (2012) Conservation Objectives: Blackwater River (Cork/Waterford) SAC 002170. Version 1.0. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht (dated July 2012)</p> <p><a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002170.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO002170.pdf</a></p>

Site Code	Site Name	Qualifying Interests (* denotes a priority habitat)	Conservation Objectives
004077	River Shannon and River Fergus Estuaries SPA	<p><b>Habitats</b> A999 Wetlands</p> <p><b>Species</b> A017 Cormorant (<i>Phalacrocorax carbo</i>) breeding + wintering A038 Whooper Swan (<i>Cygnus cygnus</i>) wintering A046 Light-bellied Brent Goose (<i>Branta bernicla hrota</i>) wintering A048 Shelduck (<i>Tadorna tadorna</i>) wintering A050 Wigeon (<i>Anas Penelope</i>) wintering A052 Teal (<i>Anas crecca</i>) wintering A054 Pintail (<i>Anas acuta</i>) wintering A056 Shoveler (<i>Anas clypeata</i>) wintering A062 Scaup (<i>Aythya marila</i>) wintering A137 Ringed Plover (<i>Charadrius hiaticula</i>) wintering A140 Golden Plover (<i>Pluvialis apricaria</i>) wintering A141 Grey Plover (<i>Pluvialis squatarola</i>) wintering A142 Lapwing (<i>Vanellus vanellus</i>) wintering A143 Knot (<i>Calidris canutus</i>) wintering A149 Dunlin (<i>Calidris alpina</i>) wintering A156 Black-tailed Godwit (<i>Limosa limosa</i>) wintering A157 Bar-tailed Godwit (<i>Limosa lapponica</i>) wintering A160 Curlew (<i>Numenius arquata</i>) wintering A162 Redshank (<i>Tringa tetanus</i>) wintering A164 Greenshank (<i>Tringa nebularia</i>) wintering A179 Black-headed Gull (<i>Chroicocephalus ridibundus</i>) wintering</p>	<p>NPWS (2012) Conservation Objectives: River Shannon and River Fergus Estuaries SPA 004077. Version 1.0. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht</p> <p><a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO004077.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO004077.pdf</a></p>

Site Code	Site Name	Qualifying Interests (* denotes a priority habitat)	Conservation Objectives
000439	Tory Hill SAC	<b>Habitats</b> 6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (*important orchid sites) 7210 Calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae* 7230 Alkaline fens	NPWS (2018) Conservation Objectives: Tory Hill SAC 000439. Version 1. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht. <a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000439.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000439.pdf</a>
000174	Curraghchase Woods SAC	<b>Habitats</b> 91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (Alno-Padion, Alnion incanae, Salicion albae)* 91J0 <i>Taxus baccata</i> woods of the British Isles* <b>Species</b> 1016 Desmoulin's Whorl Snail ( <i>Vertigo moulinsiana</i> ) 1303 Lesser Horseshoe Bat ( <i>Rhinolophus hipposideros</i> )	NPWS (2023) Conservation Objectives: Curraghchase Woods SAC 000174. Version 2. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage <a href="https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000174.pdf">https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO000174.pdf</a>

### Appendix 3 Relevant Legislation

The following European instruments which have been transposed into Irish legislation are regarded as relevant to this application assessment and have been considered in the drafting of the Recommended Determination.

National Emissions Ceilings Directive (2016/2284)

Industrial Emissions Directive (IED) (2010/75/EU)

Environmental Impact Assessment (EIA) Directive (2011/92/EU as amended by 2014/52/EU)

Habitats Directive (92/43/EEC) as amended & Birds Directive (2009/147/EC) as amended

Water Framework Directive [2000/60/EC]

Waste Framework Directive (2008/98/EC)

Air Quality Directives (2008/50/EC and 2004/107/EC)

Groundwater Directive (80/68/EEC) and 2006/118/EC

Environmental Liability Directive (2004/35/CE)

Regulation (EC) No 1069/2009, as amended (Animal By-products Regulation)

Nitrates Directive (91/676/EEC)

Energy Efficiency Directive (2018/2002/EU)

#### Appendix 4 Other CIDs/BREF/BAT documents relevant to this assessment

Commission Implementing Decisions	Publication Date
COMMISSION IMPLEMENTING DECISION of 15 February 2017 establishing best available techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the intensive rearing of poultry or pigs (2017/302/EU)	February 2017
Sectoral BREF	Publication date
Reference Document on the Best Available Techniques for the Intensive Rearing of Poultry or Pigs	July 2017
Horizontal BREF	Publication date
Reference Document on the Best Available Techniques on Emissions from Storage	July 2006
Reference Document on the Best Available Techniques for Energy Efficiency	February 2009