

Submission						
Submitter:	Mr CorporateSupport Unit					
Organisation Name:	Department of Environment, Climate and Communications					
	Communications					
Submission Title:	Reply from GSI					
Submission Reference	S010178					
No.:						
Submission Received:	17 December 2021					
Application						
Applicant:	Mr. Kevin Keenan					
Reg. No.:	P1167-01					
See below for Submission details						
See below for Submission details.						
Attachments are displayed on the following page(s).						
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An Roinn Comhshaoil, Aeráide agus Cumarsáide Department of the Environment, Climate and Communications



Environmental Licensing Programme Office of Environmental Sustainability FPA Johnstown Castle Estate Wexford, Y35 W821

15 December 2021

Re: Application for Industrial Emissions Licence for poultry site in Scotstown, Monaghan Your Ref: P1167-01 Our Ref: 21/451

Dear Sir/Madam,

Geological Survey Ireland is the national earth science agency and is a division of the Department of the Environment, Climate and Communications. We provide independent geological information and advice and gather various data for that purpose. Please see our website for data availability. We recommend using these various data sets, when conducting the EIAR, SEA, planning and scoping processes. Use of our data or maps should be attributed correctly to 'Geological Survey Ireland'.

With reference to your email received on the 02 December 2021, concerning the application for Industrial Emissions Licence for poultry site in Scotstown, Monaghan, Geological Survey Ireland would encourage use of and reference to our datasets. Please find attached a list of our publicly available datasets that may be useful to the environmental assessment and planning process. We recommend that you review this list and refer to any datasets you consider relevant to your assessment. The remainder of this letter and following sections provide more detail on some of these datasets.

We are pleased to see use of our Bedrock and Groundwater datasets within the EIAR. tion

Geoheritage

OWNEEL A national inventory of geoheritage sites known as county Geological Sites (CGSs) is managed by the Geoheritage Programme of Geological Survey Ireland. CGSs adopted under the National Heritage Plan, include sites that are of national importance which have been selected as the very best examples for NHA (Natural Heritage Areas) designation. NHA designation will be completed in partnership with the National Parks and Wildlife Service (NPWS). CGSs are now routinely included in County Development Plans and in the GIS of planning departments, to ensure the recognition and appropriate protection of geological heritage within the planning system. CGSs can be viewed online under the Geological Heritage tab on the online Map Viewer.

The audit for Co. Monaghan was carried out in 2013. The full report details can be found here. Our records show that are no CGSs in the vicinity of the poultry facility.

Groundwater

Geological Survey Ireland's Groundwater and Geothermal Unit, provides advice, data and maps relating to groundwater distribution, quality and use, which is especially relevant for safe and secure drinking water supplies and healthy ecosystems.

Proposed developments need to consider any potential impact on specific groundwater abstractions and on groundwater resources in general. We recommend using the groundwater maps on our Map viewer. which should include: wells; drinking water source protection areas; the national map suite - aquifer, groundwater vulnerability, groundwater recharge and subsoil permeability maps.

For areas underlain by limestone, please refer to the karst specific data layers (karst features, tracer test database; turlough water levels (gwlevel.ie). Background information is also provided in the Groundwater Body Descriptions. Please read all disclaimers carefully when using Geological Survey Ireland data.

Geological Survey Ireland, Beggars Bush, Haddington Road, Dublin D04 K7X4, Ireland. Suirbhéireacht Gheolaíochta Éireann, Tor an Bhacaigh, Bóthar Haddington, Baile Átha Claith D04 K7X4, Éire. T +353 (0)1 678 2000 LoCall / LóGhlao 1890 44 99 00 www.gsi.ie Fáiltítear roimh comhfhreagras i nGaeilge Submission S010178 Page 2 of 4



An Roinn Comhshaoil, Aeráide agus Cumarsáide Department of the Environment, Climate and Communications



The Groundwater Vulnerability map indicates the area is classed as 'Low'. The poultry facility is underlain by a 'Locally Important Aquifer - Karstified'. The groundwater risk is low due to the thick subsoil cover and its classification as Low Groundwater Vulnerability. Surface water as a potentially sensitive receptor should be considered in terms of potential or likely significant impacts.

If the waste arising from the intensive poultry facility is being landspread, it should comply with the Licensed Landspreading Groundwater Protection Response and indicated site assessment requirements for the particular groundwater vulnerability, aquifer and source protection area setting, as well as the relevant current EPA guidelines.

The Licensed Landspreading document is here: https://www.gsi.ie/documents/Groundwater Response Matrix for Landspreading of Organic Waste.pdf.

The Groundwater Protection Response overview and link to the main report is here: https://www.gsi.ie/enie/programmes-and-projects/groundwater-and-geothermal-unit/projects/protecting-drinking-water/what-isdrinking-water-protection/county-groundwater-protection-schemes/Pages/default.aspx.

Geochemistry of soils, surface waters and sediments

Geological Survey Ireland provides baseline geochemistry data for Ireland as part of the Tellus programme. Baseline geochemistry data can be used to assess the chemical status of soil and water at a regional scale and to support the assessment of existing or potential impacts of human activity on environmental chemical quality. Tellus is a national-scale mapping programme which provides multi-element data for shallow soil, stream sediment and stream water in Ireland. At present, mapping consists of the border, western and midland regions. Data is available at https://www.gsi.ie/en-ie/data-and-maps/Reges/Geochemistry.aspx. This page also hosts Geochemical Mapping of Agricultural and Grazing Land Soil of Europe (GEMAS) and lithogeochemistry (rock geochemistry) from southeast Ireland datasets. Geological Survey Ireland and partners are undertaking applied geochemistry projects to provide data for agriculture (Texa Soil), waste soil characterisation (Geochemically Appropriate Levels for Soil Recovery Facilities) and mineral exploration (Mineral Prospectivity Mapping).

I hope that these comments are of assistance, and if we can be of any further help, please do not hesitate to contact me Clare Glanville, or my colleague Titsh Smullen at <u>GSIPlanning@gsi.ie</u>.

Yours sincerely,

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Clare Glanville Senior Geologist Geological Survey Ireland

Enc: Table - Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes.





Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes following European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (S.I. No. 296 of 2018)

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1. The maps and data listed above are available on the Geological Survey Ireland map viewer https://www.gsi.ie/en-ie/data-and-maps/Pages/default.aspx

2. Please read all disclaimers carefully when using Geological Survey Ireland data

3. Geological Survey Ireland and Irish Concrete Federation published guidelines for the treatment of geological heritage in the extractive industry in 2008.