

## Ballyfeeny Green Energy Project



### Environmental Impact Assessment Report Volume III

### Appendix 8.4 – Water Framework Directive (WFD) Assessment

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# Ballyfeeny Green Energy Project

Water Framework Directive  
Assessment

August 2025

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Ballyfeeny Green Energy

## JBA Project Manager

Frank O'Connell  
Third Floor  
12 South Mall  
Cork  
T12 RD43  
Ireland

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## Contract

This report describes work commissioned by Rowan Engineering Consultants (REC), on behalf of Ballyfeeny Green Energy, by an email dated 12/06/2025. Conor O'Neill of JBA Consulting carried out this work.

Prepared by ..... Conor O'Neill BA (Mod) MSc Adv Dip  
Senior Environmental Scientist

Reviewed by ..... Kate de Smeth PhD  
Senior Analyst

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# 1 Introduction

## 1.1 WFD Overview

The Water Framework Directive (WFD) is the most substantial piece of EU water legislation to date. The Directive imposes legal requirements to protect and improve the water environment. All activities in the water environment need to take the Directive into account. The EU Water Framework Directive was transposed into law in Ireland by S.I. No. 722/2003 - European Communities (Water Policy) Regulations 2003, with later elements in the European Communities (Surface Waters) Regulations 2009. Section 4 of the Surface Water Regulations sets out the duties of public authorities with regard to the Water Framework Directive. In particular, a public authority, in performing its functions, will ensure that surface water bodies comply with the relevant environmental quality standards. Also, a public authority shall not undertake its functions in a manner that knowingly causes or allows deterioration in the status or ecological potential of a surface waterbody. Section 7 of the Surface Water Regulations lays out the duties of public authorities with regard to emission limits.

The Directive operates in six-year cycles: the 1st Cycle ran between 2009 and 2015, and the 2nd Cycle between 2016 and 2021. Ireland published its 3rd Cycle River Basin Management Plan ("RBMP"), in September 2024 covering the period from 2022 to 2027. The programme encompasses a total of 4,842 surface and groundwater bodies, rivers account for 66% of all waterbodies, followed by lakes (17%), groundwater (11%), transitional waterbodies (4%), coastal waterbodies (2%) and canals (>1%). Specifically, this includes 3,192 river water bodies, 812 lakes, 514 groundwater bodies 196 transitional waters, 112 coastal waters and 16 canals<sup>1</sup>.

The RBMP is managed by the Environmental Protection Agency in collaboration with the Marine Institute, Inland Fisheries Ireland, Waterways Ireland, and the National Parks and Wildlife Service. The most recent characterisation assessment indicates that 1,983 water bodies, representing 41% of the total number of waterbodies, are classified as "Not at Risk" and currently meet their environmental objectives of achieving good or high status. In contrast, 1,603 water bodies (26%) are identified as "At Risk" due to significant pressures that may prevent them from meeting these objectives. Additionally, 1,256 water bodies, accounting for 26%, are currently under review to determine their risk status<sup>1</sup>.

All identified WFD waterbodies in the vicinity of the proposed Project have been assigned a status by the EPA.

### 1.1.1 Scope of the WFD Assessment

The European Communities (Water Policy) Regulations 2003 (S.I. No. 722 of 2003) require that Environmental Objectives be set for all surface and ground waters in Ireland to enable them to achieve Good Status (or Good Ecological Potential for Heavily Modified and Artificial Waterbodies) by a defined date. These Environmental Objectives for surface waterbodies include the following:

- To prevent deterioration of the status of surface waters;
- To protect, enhance and restore surface waters, with the aim of achieving good status (ecological and chemical) for all WFD waterbodies;
- To protect and enhance heavily modified waterbodies and artificial waterbodies in order to achieve good ecological potential and good chemical status for those waterbodies;
- To progressively reduce pollution from priority substances and cease or phase out emissions, discharges and losses of priority hazardous substances into surface waters.

### 1.1.2 Preventing Deterioration in Status

A WFD assessment should expressly make the conclusions required in the WFD that neither a deterioration in status nor a jeopardization of the attainment of good water status will occur.

Any activity which has the potential to have an impact on the ecology of a waterbody will need consideration in terms of whether it could cause deterioration in its Ecological Status or Potential. The assessments will provide a detailed appraisal of the potential impacts of the proposed

<sup>1</sup> Government of Ireland (2024) *Water Action Plan 2024: A River Basin Management Plan for Ireland*. Ireland: Department of Housing, Local Government and Heritage. Available from: [www.gov.ie/pdf/?file=https://assets.gov.ie/199144/7f9320daf22e-4a7d-b238-2e179e3bd98a.pdf#page=null](https://www.gov.ie/pdf/?file=https://assets.gov.ie/199144/7f9320daf22e-4a7d-b238-2e179e3bd98a.pdf#page=null) [Accessed 4 December 2024].

measures on waterbody hydromorphology and status and, where necessary, a detailed appraisal under Article 4(7) of the WFD (derogation related to deterioration caused by new modifications)<sup>1</sup>.

For each waterbody, three different status objectives are identified within the RBMP. These are the overall status objective, the ecological status or potential objective and the chemical status objective. A default objective for all WFD waterbodies is to prevent the deterioration in the Ecological Status (or Ecological Potential for Heavily Modified and Artificial Waterbodies) of the waterbody. Note, the Ecological Status applies only to surface water bodies, and not groundwater bodies. A separate assessment may be required to assess the impacts on the chemical and quantitative status of a groundwater body, if the proposed activity is likely to cause impact.

The Ecological Status of a waterbody is determined through analysis of its constituent Biological Quality Elements. These elements are in turn supported by a series of Physico-Chemical and Hydromorphological Quality Elements. These Quality Elements are taken from Annex V of the WFD Regulations and are listed below. The overall Ecological Status is determined by the lowest element status.

The Biological Quality Elements assessed in the WFD include:

- Fish
- Benthic Invertebrates
- Macrophytes
- Phytobenthos
- Phytoplankton

The WFD defines the flow, shape and physical characteristics of a watercourse as its 'hydromorphology'. Any in-channel works can impact upon the shape of a watercourse and the natural processes that occur within it, including:

- Flow patterns
- Width and depth of a channel
- Features such as pools, riffles (shallow parts of a stream), bars and bank slopes
- Sediment availability/ transport
- Interaction between a channel and its floodplain
- Ecology and biology (i.e., habitats which support plants and animals).

The WFD considers the chemistry of a watercourse through general water quality (physico-chemical measurements) and chemical pollutants. All three environmental components; morphology, hydrology and chemistry, support the overall biology of a waterbody.

Any activity that has the potential to have an impact upon any of the Quality Elements will need consideration in terms of whether it could cause a deterioration in the status of a waterbody. The activity will also need to be considered in terms of whether it will compromise the ability of the waterbody to reach Good Ecological Status or Good Ecological Potential by 2027 at the latest.

Any adverse impacts can cause a waterbody's ecology to deteriorate and prevent environmental improvements from being undertaken. Nevertheless, in-channel works can also be beneficial if they can be designed to help achieve environmental improvements included in the RBMP, thus enhancing the water environment for plants and animals.

### 1.1.3 Artificial or Heavily Modified Waterbodies

Whilst good ecological status is defined as a slight variation from undisturbed natural conditions in natural waterbodies, artificial and heavily modified waterbodies are unable to achieve natural conditions. Instead, artificial and heavily modified waterbodies have a target to achieve Good Ecological Potential, which recognises their important uses, whilst making sure ecology is protected as far as possible. Ecological potential is also measured on the scale high, good, moderate, poor and bad. The chemical status of these waterbodies is measured in the same way as for natural waterbodies.

Specific mitigation measures have been identified for each Artificial and Heavily Modified Waterbody and are listed in the RBMP. These mitigation measures are necessary to reduce the existing hydromorphological impacts on the waterbody and all measures need to be in place in order for the waterbody to achieve Good Ecological Status or Potential.

#### 1.1.4 Protected Areas

The WFD specifies that areas requiring special protection under other retained EC Directive and waters used for the abstraction of drinking water are identified as protected areas. These areas have their own objectives and standards. Article 4 of the WFD requires Member States to achieve compliance with the standards and objectives set for each protected area by 22nd December 2015, unless otherwise specified in the legislation under which the protected area was established. The date by which compliance must be reached has been extended to 2027 at the latest.

These protected areas under the WFD include:

- Drinking water protected areas (DWPA)
- Nutrient sensitive areas (NSA)
- Salmonid rivers
- Shellfish classified areas
- Bathing water areas.

## 1.2 Purpose of this WFD Assessment

JBA Consulting Engineers and Scientists Ltd. (hereafter JBA) has been commissioned to prepare a Water Framework Directive (WFD) Assessment Report for a proposed green energy development located near Strokestown, Co. Roscommon.

The proposed Project comprises a wind energy development including six turbines and all associated infrastructure including Turbine Foundations, Turbine Hardstands, Site Access Tracks, Wind Farm Internal Cabling, Grid Connection Route (GCR), Relay Tower, Onsite Substation and works required along the public road network for the turbine delivery. A full description of the proposed Project is provided in Chapter 2: Project Description of the Environmental Impact Assessment Report (EIAR) submitted with the application.

This WFD assessment aims to determine the effects of the proposed Project on ecological, hydromorphological and chemical quality and identify any potential impacts that could cause deterioration in the current status of the waterbody or could hinder the waterbody from meeting its WFD objectives in the future. The assessment will determine whether the conclusions required in the WFD, that neither a deterioration in status nor compromising the achievement of the attainment of good water status will occur, apply for the proposed Project.

The proposed wind farm site and GCR are situated within the Upper Shannon (26C) WFD catchment. The turbine delivery route (TDR) is situated across several catchments in addition to the Upper Shannon (26C). These are the Upper Shannon (26B), Moy and Killala Bay, Corrib, and Galway Bay Southeast WFD catchments (see Figure 3-1).

The Environmental Objectives, together with any specific actions (mitigation measures) necessary to enable the waterbody to meet these objectives, are set out in the River Basin Management Plan (RBMP) for Ireland (2018-2021) and the Environmental Protection Agency (EPA) Interactive GIS mapping website.

## 2 Assessment Methodology

### 2.1 Overview

The following flow chart, from the Common Implementation Strategy for the Water Framework Directive and the Floods Directive (CIS Guidance Document No. 36) summarises the WFD Assessment process.

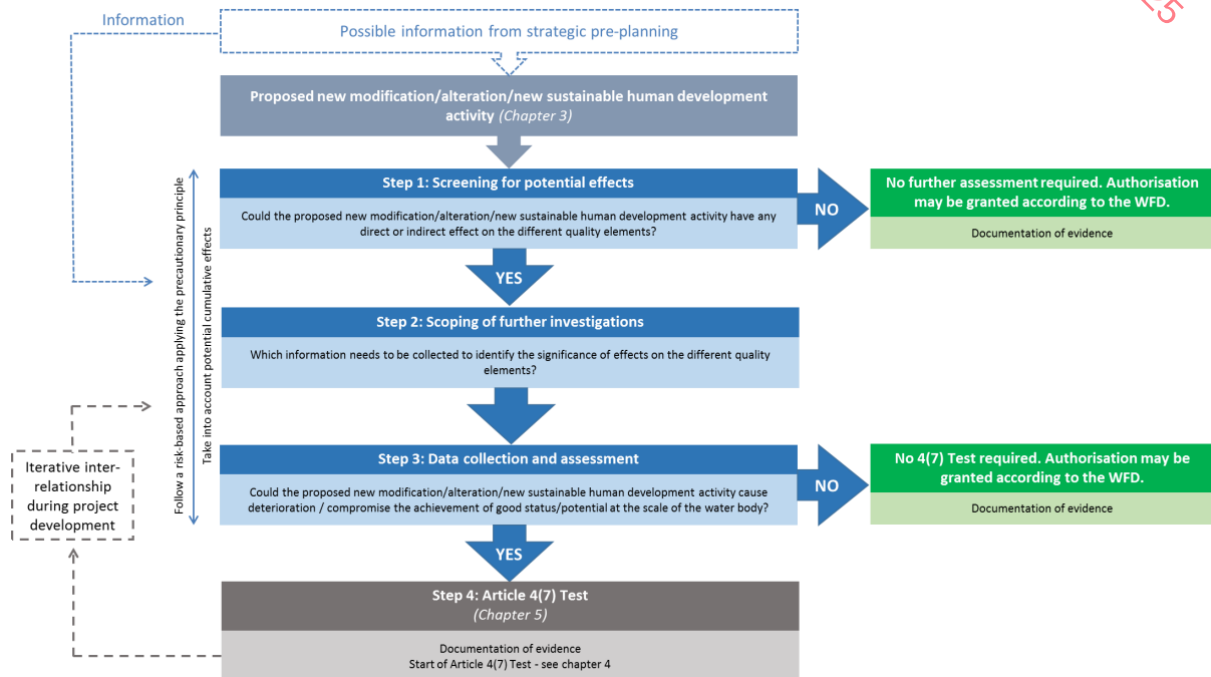


Figure 2-1. WFD assessment process (Source: CIS Guidance Document No. 36)

### 2.2 Stage 1: Screening Assessment

The purpose of the screening stage is to identify potential for impacts of the proposed Project on relevant WFD waterbodies, i.e., whether it will contribute to deterioration of status; or jeopardise the waterbody achieving good status in the future. The Screening Assessment aims to exclude any activities that do not need to go through the scoping or WFD impact assessment stages. Screening takes place in 4 steps:

- Step 1 – Description of the nature of the project, site, and locality
- Step 2 – Identification of relevant WFD waterbodies and their status
- Step 3 – Use of Source-Pathway-Receptor method to infer hydraulic linkages between the project and the relevant WFD waterbodies
- Step 4 – Screening statement.

The EPA's WFD waterbody geographic data files (shapefiles) were used to determine which WFD waterbodies could be potentially affected by the proposed works. The names, ID numbers, designation, status classification and objectives for all relevant WFD waterbodies were obtained and downloaded from the EPA catchments website ([www.catchments.ie](http://www.catchments.ie)).

The initial stage of the assessment screens the proposed works against the Ecological and Chemical Status objectives for the WFD waterbodies potentially affected by the works, together with their Quality Elements. The aim of this process is to determine whether the works could have an impact upon any of these criteria. Those criteria for which no potential adverse effects are identified are not considered further in the assessment. Any potential adverse effects are screened into the assessment and are carried forward to a detailed assessment.

The Source-Pathway-Receptor method is used in the screening assessment. This first considers any potential sources of impacts, i.e., the proposed Project and its associated activities. Pathways

from these sources are then considered, such as surface water pathways or groundwater pathways. The receptors are then the sites or waterbodies which could be impacted.

## 2.3 Stage 2: Scoping Assessment

A detailed assessment is then undertaken to determine the effects that the proposed works could have upon those Quality Elements screened into the assessment. Any impacts identified are then considered in relation to the Ecological Status of the waterbody, which comprises biology, hydrology, hydromorphology and water chemistry. The purpose of the Scoping stage is to determine how the development could affect each WFD Quality Element (i.e., Biological, Hydromorphological, Chemical). Scoping should include an initial assessment to determine which WFD waterbodies and their quality elements are at risk; and identification of WFD waterbodies where detailed assessment is required.

The following quality elements shown in the table below will be assessed during the scoping assessment.

Table 2-1: Water quality elements

| Quality Element             | Sub-category                                 | Individual elements assessed                                                                                                                                                                                |
|-----------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biological elements         | Aquatic flora (macrophytes and phytobenthos) | Taxonomic composition<br>Abundance                                                                                                                                                                          |
|                             | Benthic invertebrate fauna                   | Taxonomic composition<br>Abundance<br>Level of diversity<br>Ratio of disturbance sensitive taxa to insensitive taxa                                                                                         |
|                             | Fish                                         | Species composition<br>Abundance<br>Type-specific disturbance-sensitive species present<br>Age structure                                                                                                    |
|                             | Phytoplankton                                | Taxonomic composition<br>Abundance<br>Planktonic bloom status                                                                                                                                               |
| Hydromorphological elements | Hydrological regime                          | Quantity and dynamics of water flow<br>Connection to groundwater bodies                                                                                                                                     |
|                             | River continuity                             | Lateral connectivity<br>Longitudinal connectivity                                                                                                                                                           |
|                             | Morphological conditions                     | River depth and width variation<br>Structure and substrate of the riverbed<br>Structure of the riparian zone                                                                                                |
| Physico-chemical elements   | General                                      | Thermal conditions<br>Oxygenation conditions<br>Salinity<br>Acidification status<br>Nutrient conditions                                                                                                     |
|                             | Specific pollutants                          | Pollution by all priority substances identified as being discharged into the body of water<br>Pollution by other substances identified as being discharged in significant quantities into the body of water |

## 2.4 Stage 3: WFD Impact Assessment

The third stage of the WFD Assessment, if determined as necessary from the Screening and Scoping Assessments, is to undertake a WFD Impact Assessment to consider the impacts of the proposed scheme in more detail and recommend necessary mitigation measures. An impact assessment must be carried out for each receptor identified during scoping as being at risk from your activity.

The Stage 3 assessment process is focused on assessing the potential for the proposed Project to impact on the objectives of the WFD and the RBMP. The assessment shows how any impact on WFD receptor caused by the proposed activity fits with the objectives of any affected WFD waterbodies. After the works have been amended to try and avoid, minimise, mitigate or compensate for the risks to WFD receptors the following questions will need to be answered:

- Could the activity still cause a waterbody to deteriorate from one WFD status class to another or cause significant localised impacts that could contribute to this happening?
- Could the activity prevent or undermine action to get waterbodies to good status?

When these questions are answered, the following should be borne in mind:

- A waterbody deteriorates in status when one WFD receptor (an "element") is affected such that it drops from one WFD status class to another.
- A significant localised impact on an element is one that is either long-lasting; causes severe harm; or affects a wide area within a waterbody. These are likely to contribute to a waterbody dropping from one status to another and highly likely to prevent action to get waterbodies to good status.
- Elements at high status are very sensitive. The assessment will need to demonstrate that there will be a negligible impact on those aspects of the water environment
- Elements at bad status must not be made worse.

The assessment is undertaken in 2 steps:

**Step 1:** Detailed assessment. For each quality element it must be shown that the activities scoped into the assessment will not cause deterioration in status nor prevent the achievement of WFD status objectives. This must include:

- A description of the proposed Project
- Baseline characteristics and conditions for each identified waterbody
- Methodology used to identify WFD impacts
- Risk of impact to WFD waterbodies
- Any specific mitigation required
- Enhancement measures or positive contributions that the project will provide

**Step 2:** Findings. The findings should be set out in a WFD Assessment Report.

If it cannot be demonstrated with a high level of confidence that the activity supports RBMP objectives, then in order for the Local Authority to permit the activity it must be shown that the activity meets the criteria set out in Article 4(7) of the WFD. Article 4(7) sets out stringent environmental and socio-economic tests to assess if a scheme meets strict environmental and sustainability criteria.

## 2.5 Stage 4: Article 4(7) Test

If the Local Authority concludes the proposed Project will not cause or contribute to deterioration of status; or jeopardise the waterbody achieving good status, planning permission may be granted, subject to meeting other relevant planning / legal requirements.

If Article 4(7) has been triggered, the WFD assessment process must provide justification for the following tests:

- Test (a) - all practicable steps are taken to mitigate the adverse impact on the status of the body of water;
- Test (b) - the reasons for those modifications or alterations are specifically set out and explained in the river basin management plan required under Article 13 and the objectives are reviewed every six years;
- Test (c) - the reasons for those modifications or alterations are of overriding public interest and/or the benefits to the environment and to society of achieving the objectives set out in paragraph 1 (of Article 4(7)) are outweighed by the benefits of the new modifications or alterations to human health, to the maintenance of human safety or to sustainable development; and
- Test (d) - the beneficial objectives served by those modifications or alterations of the waterbody cannot for reasons of technical feasibility or disproportionate cost be achieved by other means, which are a significantly better environmental option.

### 3 Stage 1: Screening

This screening assessment aims to screen in any works that require WFD Assessment and to identify which WFD waterbodies are within and near to the proposed works.

- Step 1 – Description of the nature of the project, site, and locality
- Step 2 – Identification of relevant WFD waterbodies and their status
- Step 3 – Use of Source-Pathway-Receptor method to infer hydraulic linkages between the project and the relevant WFD waterbodies
- Step 4 – Screening statement.

The results of the screening assessment are presented below. The baseline status of the Quality Elements within the WFD waterbodies screened into the assessment are discussed in this chapter. As discussed in the Introduction and Methodology, if this section finds there is potential for the proposed works to cause deterioration in the status of a WFD waterbody, or prevent it from achieving its status objectives, the relevant waterbody and its Quality Elements should be taken forward and considered further in the Scoping Assessment chapter.

#### 3.1 Project overview

A proposed underground grid connection will be installed mainly within the public road extending from a proposed onsite 38 kilovolt (kV) electrical substation at Ballyfeeny to where the R371 meets the Sliabh Bawn Substation Road in the townland of Tooreen, passing through the townlands of Polymount, Bellanamullia, Scramoge, Treanaceeve, Ballyhubert, Co. Roscommon.

Certain details of the proposed development are unconfirmed in the planning application and an opinion on unconfirmed details from Roscommon County Council pursuant to Section 32I of the Planning and Development Act 2000 (as amended) accompanies this planning application (Case Reference: DFR/25/1).

The proposed development will consist of:

- The construction and operation of a wind farm consisting of six wind turbines;
- The turbine specification is unconfirmed but will fall within the pa parameter range outlined by Roscommon County Council and will be one of the following three Options;
  - Technology Option 1: tip height of 160m, rotor diameter of 136m and hub height of 92m; or
  - Technology Option 2: tip height of 156m, rotor diameter of 133m and hub height of 90m; or
  - Technology Option 3: tip height of 159m, rotor diameter of 138m and hub height of 90m;
- Construction of turbine hardstands (including crane and assembly areas) and turbine foundations;
- Construction of approximately 3.9km of new permanent internal site access tracks and the upgrade of 0.5km of existing internal site access tracks;
- Construction of a permanent onsite 38kV electrical substation, including one single story substation building with welfare facilities, Lidar, diesel generator and fuel storage tank, all associated electrical plant and equipment, all associated underground cabling, rainwater harvesting and storage tank, wastewater holding tank, security fencing, gates, signage, and all ancillary structures and works;
- Installation of underground electrical and communications cabling connecting the wind turbines to the proposed onsite 38kV electrical substation;
- Construction, of two temporary site compounds with associated site offices, welfare facilities, car parking, site fencing and lighting;
- Erection of a permanent 30m high communications relay tower;
- Construction access via six site entrances (SE1 – SE6) to include:
  - SE1 on R371, SE2 and SE3 on the L6018, and SE4, SE5 and SE6 on the L60498;

- SE1 and SE6 are temporary and will be reinstated following construction. SE1 may be re-established if required for turbine component repair or replacement. SE2 – SE5 will be retained permanently for operational access;
- Tree felling to facilitate the construction and operation of the proposed development;
- Installation of approximately 5.1km of permanent underground electrical cabling for the grid connection including cabling within the public road corridor, extending from the proposed onsite 38kV Substation at Ballyfeeny to end at the junction of the R371 and the Sliabh Bawn Substation Road in the townland of Tooreen;
- All associated site works, including site clearance, landscaping, site drainage, security gates, fencing, permanent and temporary signage and biodiversity mitigation and enhancements, including hedgerow and treeline planting.

The Applicant is seeking a 10-year planning permission and 35-year operational life, initiating from the date of full commissioning of the entire wind farm. The development is covered by the provisions of the Renewable Energy Directive III (Directive 2023/2413).

### 3.1.1 Wind Farm Site

The wind farm site is described in full in the EIAR Chapter 2: Project Description. The proposed wind farm site is located at Ballyfeeny, c.4.5km northeast of Strokestown and 15km northwest of Longford town. The proposed wind farm Site consists of areas of forestry, portions of agricultural grassland and pastureland for cattle together with parcels of mature and private forestry. Additionally, an adjacent active quarry—known as Ballyfeeney Rock Quarry—exists on the western boundary of the Site. Two watercourses run adjacent to the boundaries of the proposed Site, known as the Culligh Stream and Ballymartin Stream.

### 3.1.2 Grid Connection Route

The GCR is described in full in the EIAR Chapter 2: Project Description. The GCR will be approximately 5.8km in length, originating from the proposed Onsite Substation. Approximately 1.3km of the GCR located within private lands and an estimated 4.5km of the GCR will be located along the R371, traversing under the N5, continuing along the R371 and terminating along the Sliabh Bawn Substation Road, where the GCR will connect to Sliabh Bawn Substation.

### 3.1.3 Turbine Delivery Route

The TDR is described in full in the EIAR Chapter 2: Project Description. The TDR preferred option is to start at the Port of Galway, and use existing roads including the N6, M6, M17, N17, N5 and use the new N5 Ballaghaderreen to Scramoge Road, to the site. In the event that the new N5 section is incomplete, the same route will be used, with the R371 used in place of the new road. For both routes, existing roads will be used, with limited accommodating works required at certain nodes. These works include changes to roundabouts, traffic islands, and footpaths, and movement or removal of street furniture.

### 3.1.4 Location

For the purposes of this assessment, the area will be split over three sections:

- Upper Shannon Catchment: the proposed wind farm site and TDR nodes from the site, west to node no. 3030 (Figure 3-1 - Figure 3-4 and Figure 3-10)
- Moy and Killala Bay Catchment: TDR nodes nos. 3005 to 3025 (Figure 3-5 and Figure 3-11)
- Corrib and Galway Bay Southeast Catchments: TDR nodes nos. 2090 to 2005 (Figure 3-6 - Figure 3-9, Figure 3-12 and Figure 3-13)

The site and screened WFD surface and groundwater waterbodies are shown in Figure 3-1 to Figure 3-13 overpage. The following criteria were used in selecting the waterbodies to be assessed:

- The initial selection includes all WFD surface waterbodies which contain project elements, i.e., the proposed wind farm site itself, the GCR, and nodes on the TDR where accommodating works are required.
- Other waterbodies which are outside of this selection will be similarly examined if deemed necessary following the Scoping stage, i.e., the next waterbodies downstream will be examined if impacts upstream are identified.

- TDR sections where no accommodating works are taking place are screened out as no impacts on WFD waterbodies in these areas will occur.
- Groundwater bodies within 3km of works for the proposed Project are examined. This is based on IGI guidance<sup>2</sup> which states that a buffer area of 2km for groundwater bodies should be used, or a wider area if karst is present. Karst landforms are present in several places along the TDR. Given the limited nature of works required along the TDR, a 1km extension to the recommended 2km buffer is sufficient in this case, so a 3km buffer has been applied for the entire assessment.
- Similarly to surface water, if impacts on a groundwater body are anticipated, additional groundwater bodies in the area not currently examined will be added to the assessment, to assess potential for further pathways.

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<sup>2</sup> Institute of Geologists of Ireland (2013) Guidelines for the Preparation of Soils, Geology and Hydrogeology Chapters of Environmental Impact Statements

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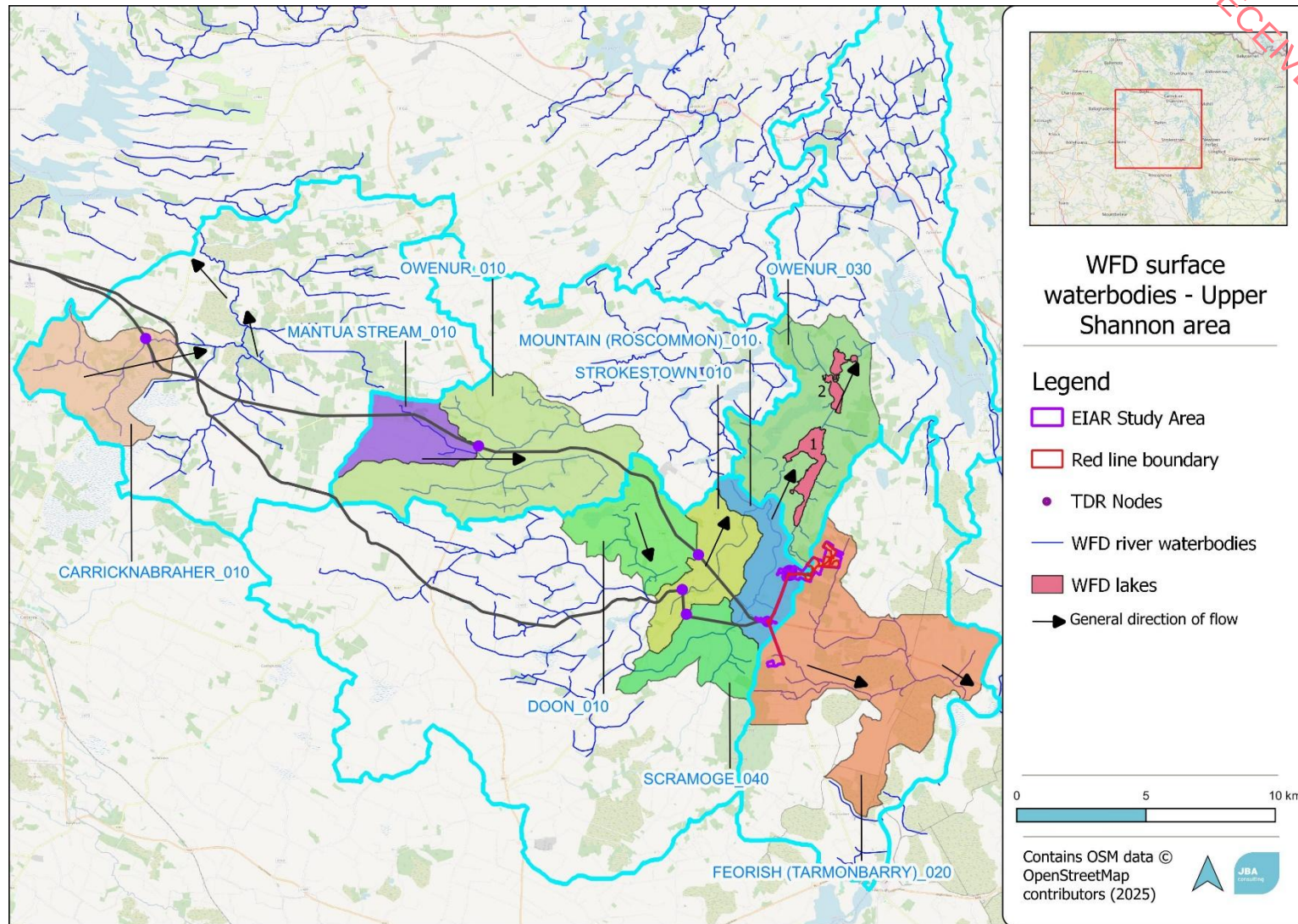
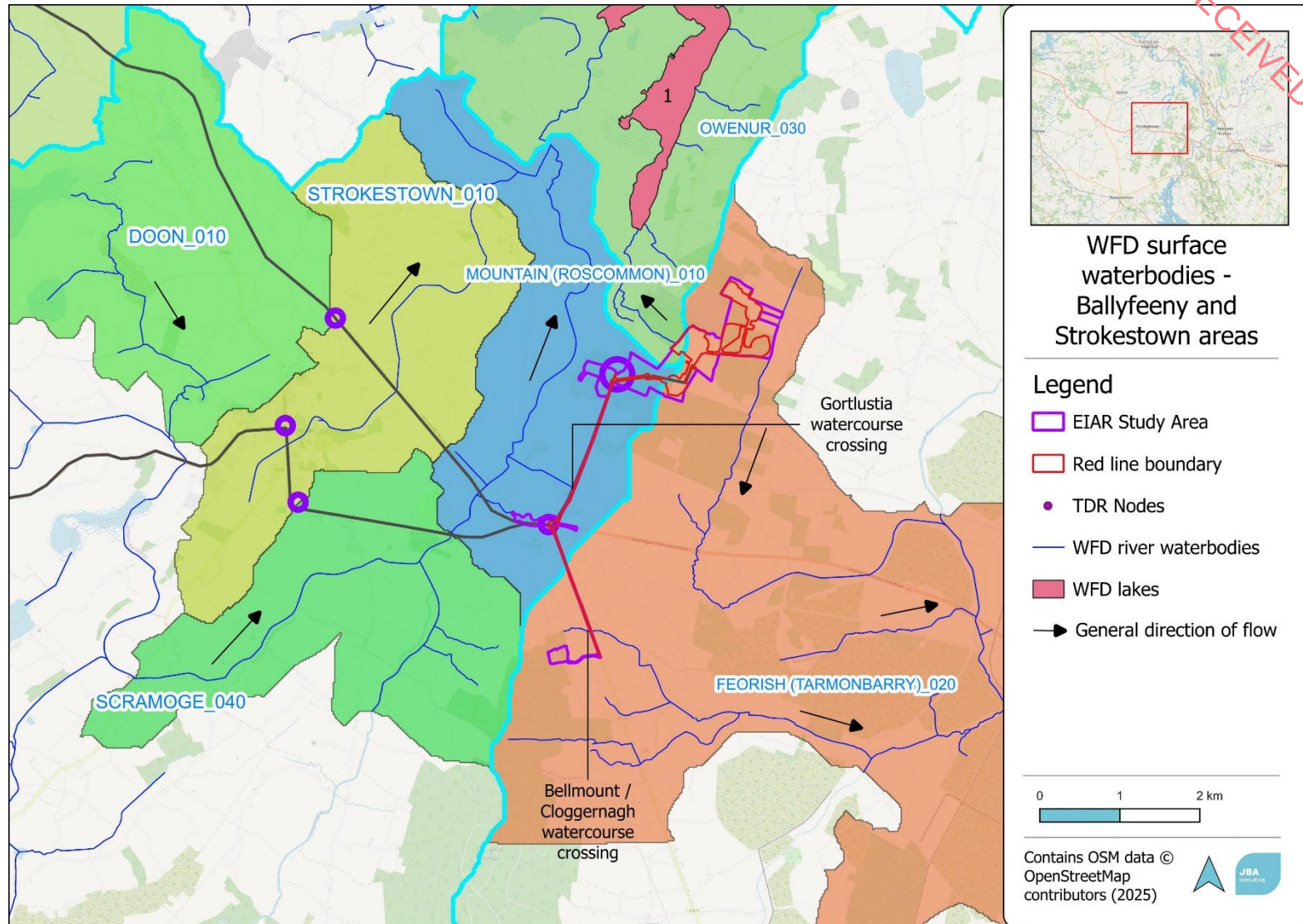


Figure 3-1: WFD surface waterbodies, Upper Shannon area



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Figure 3-2: WFD surface waterbodies, Ballyfeeny and Strokestown areas

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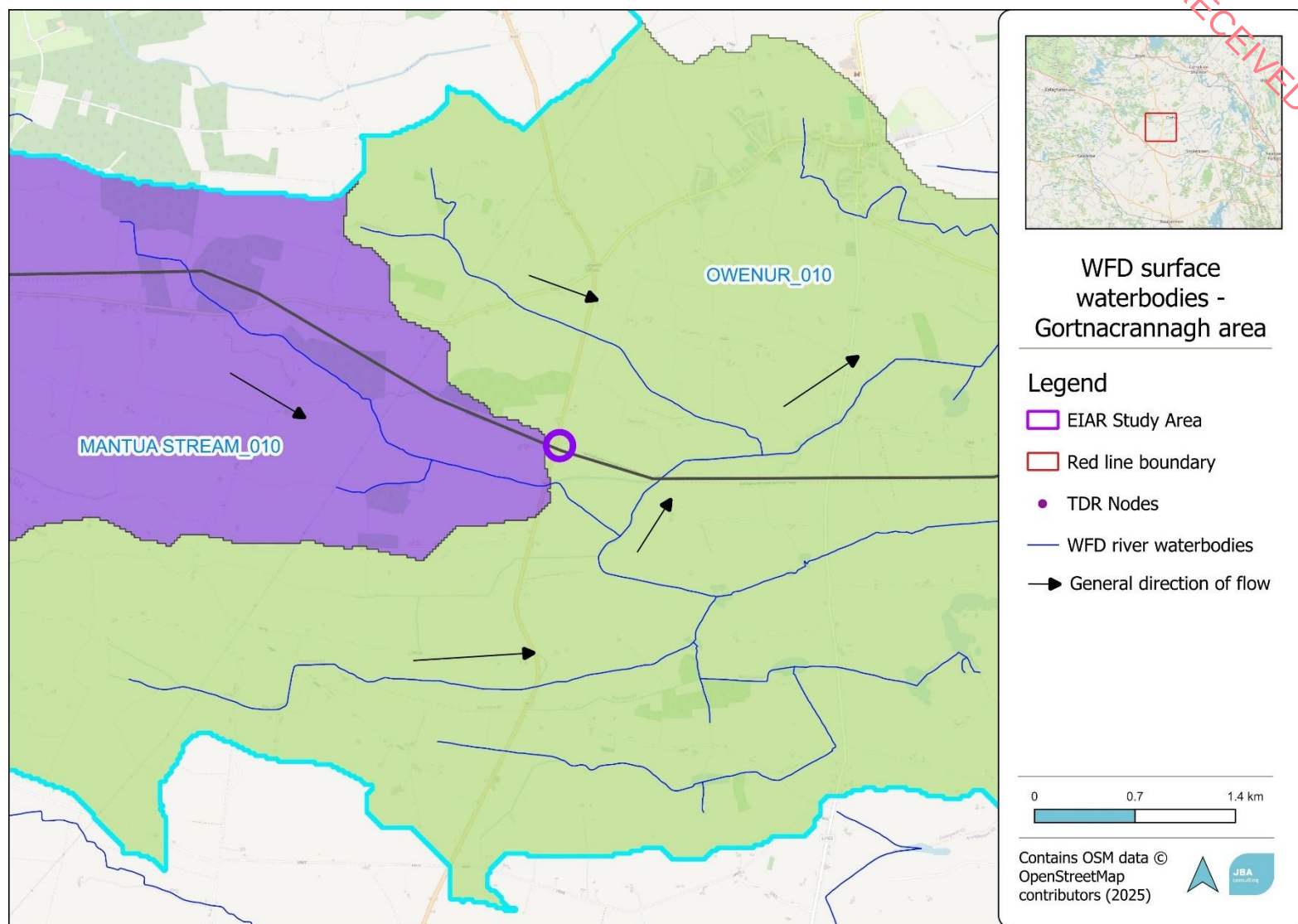


Figure 3-3: WFD surface waterbodies, Gortnacranagh area

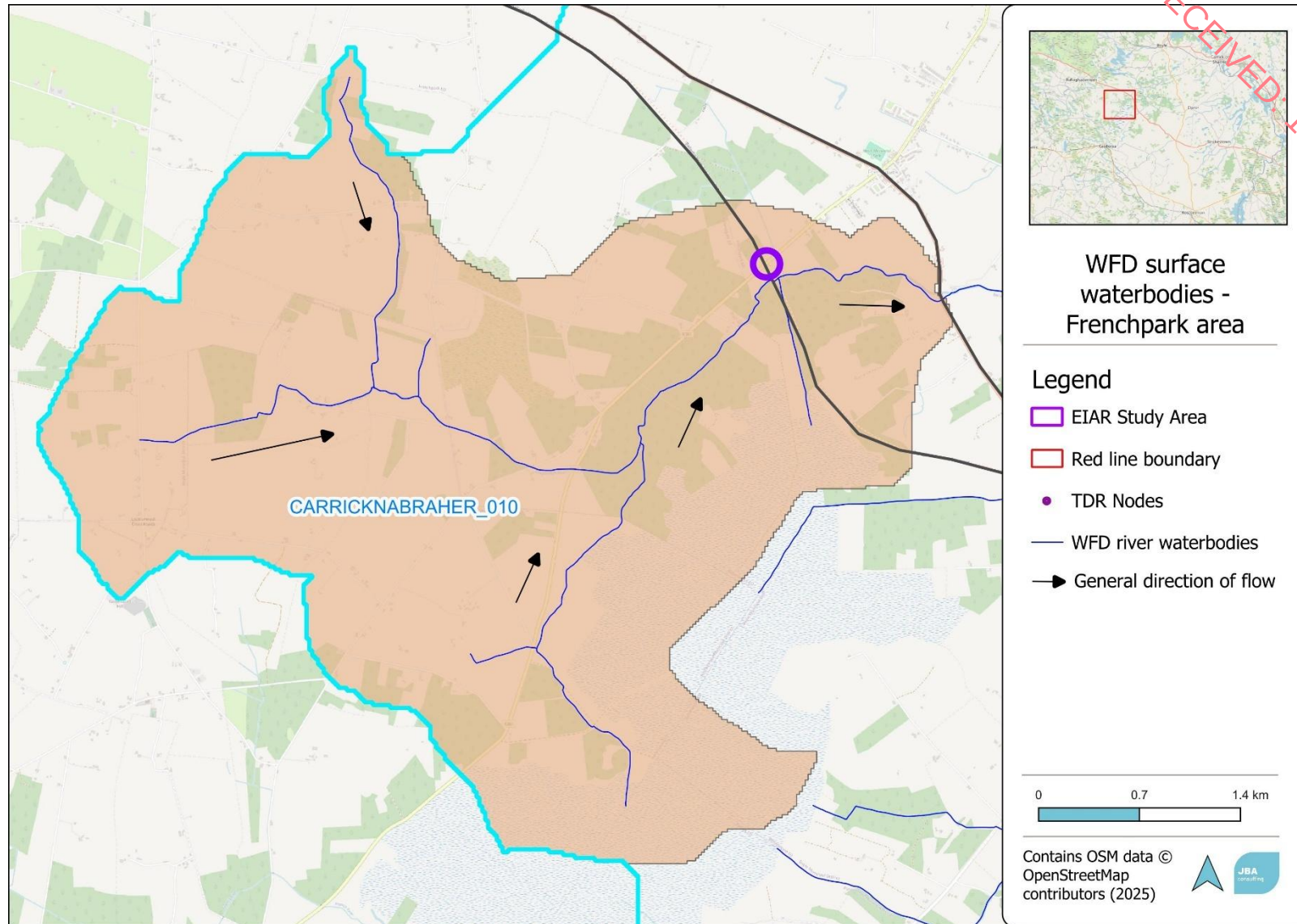


Figure 3-4: WFD surface waterbodies, Frenchpark area

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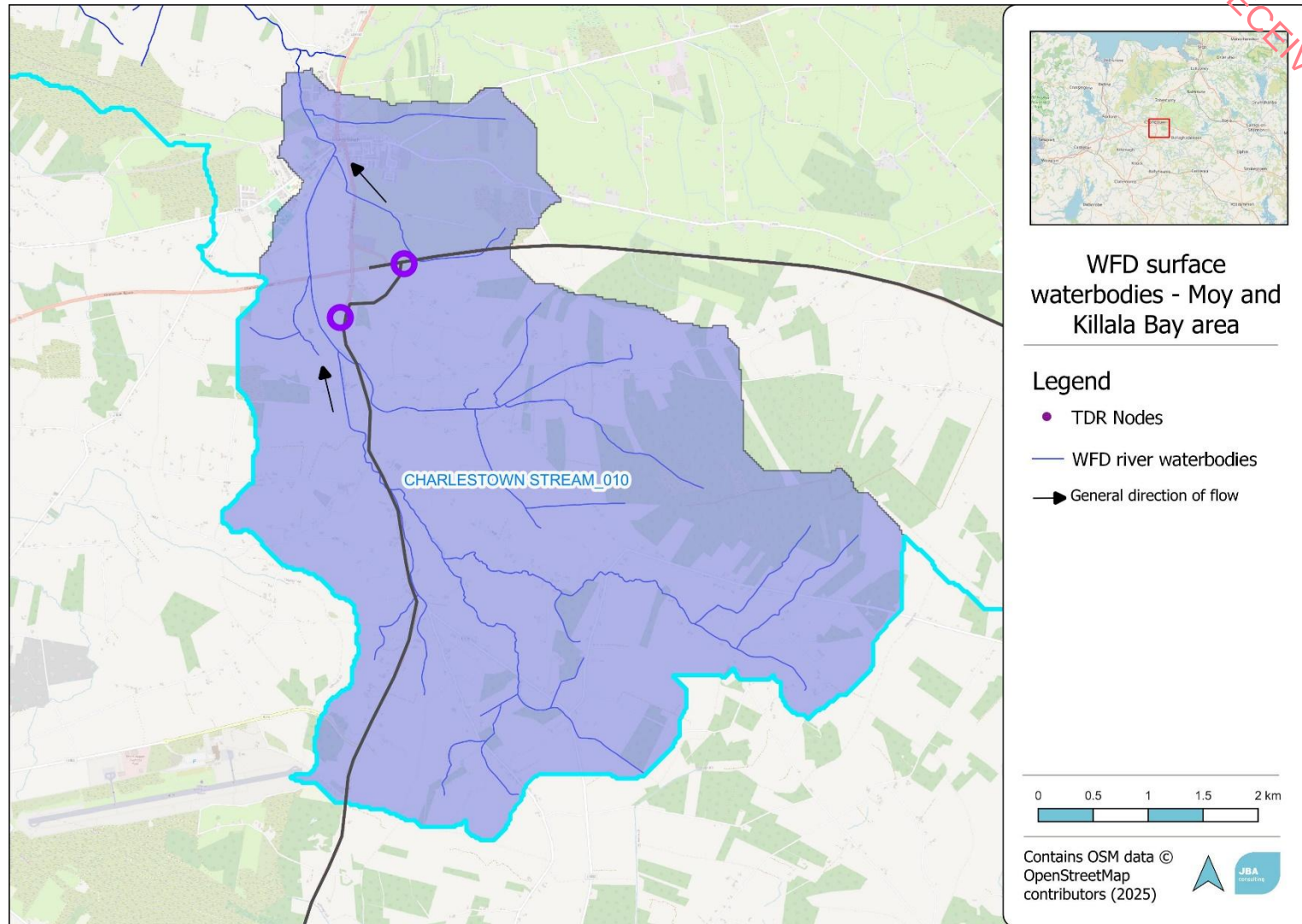


Figure 3-5: WFD surface waterbodies, Moy and Killala Bay area

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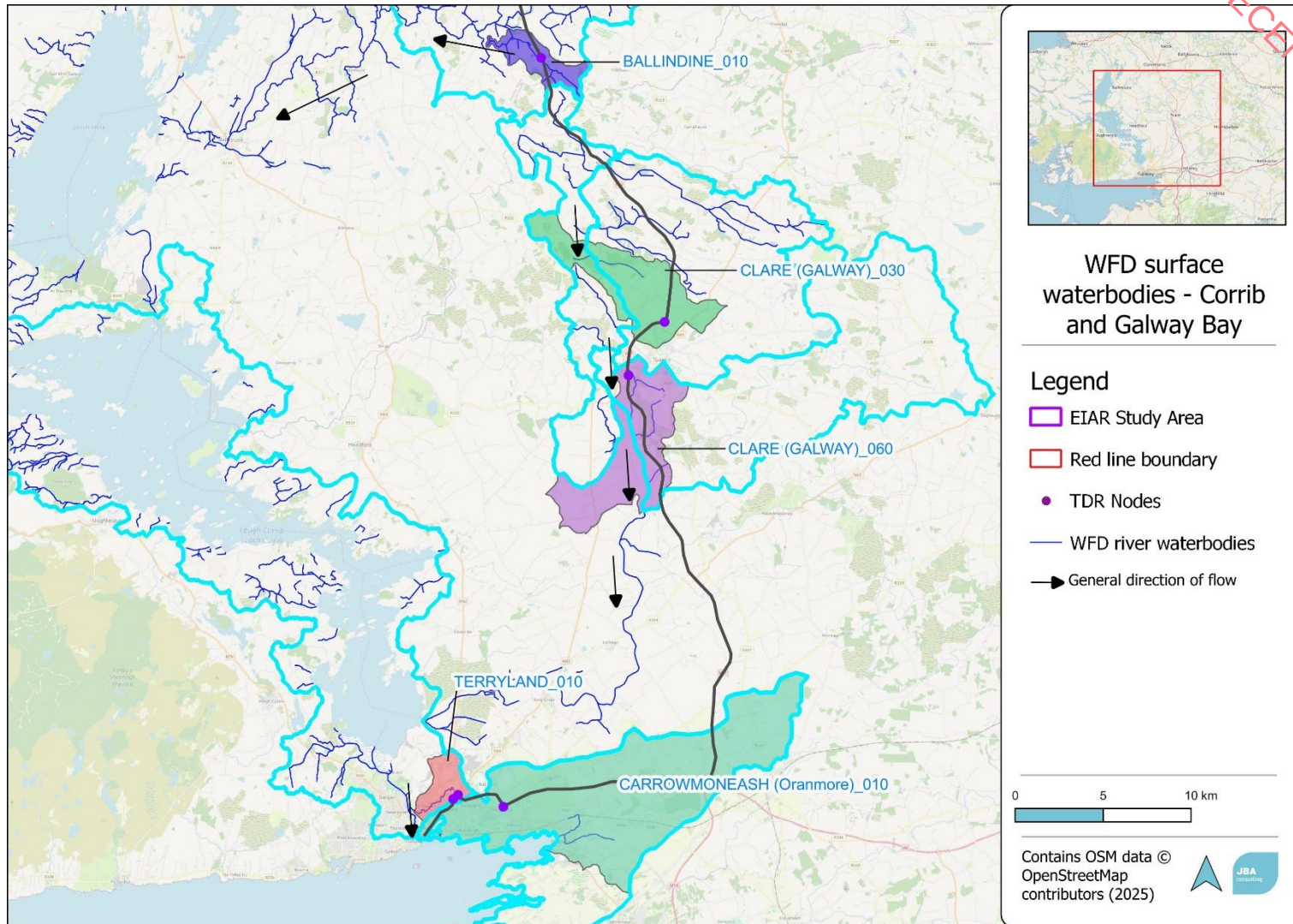


Figure 3-6: Surface waterbodies, Corrib and Galway Bay area

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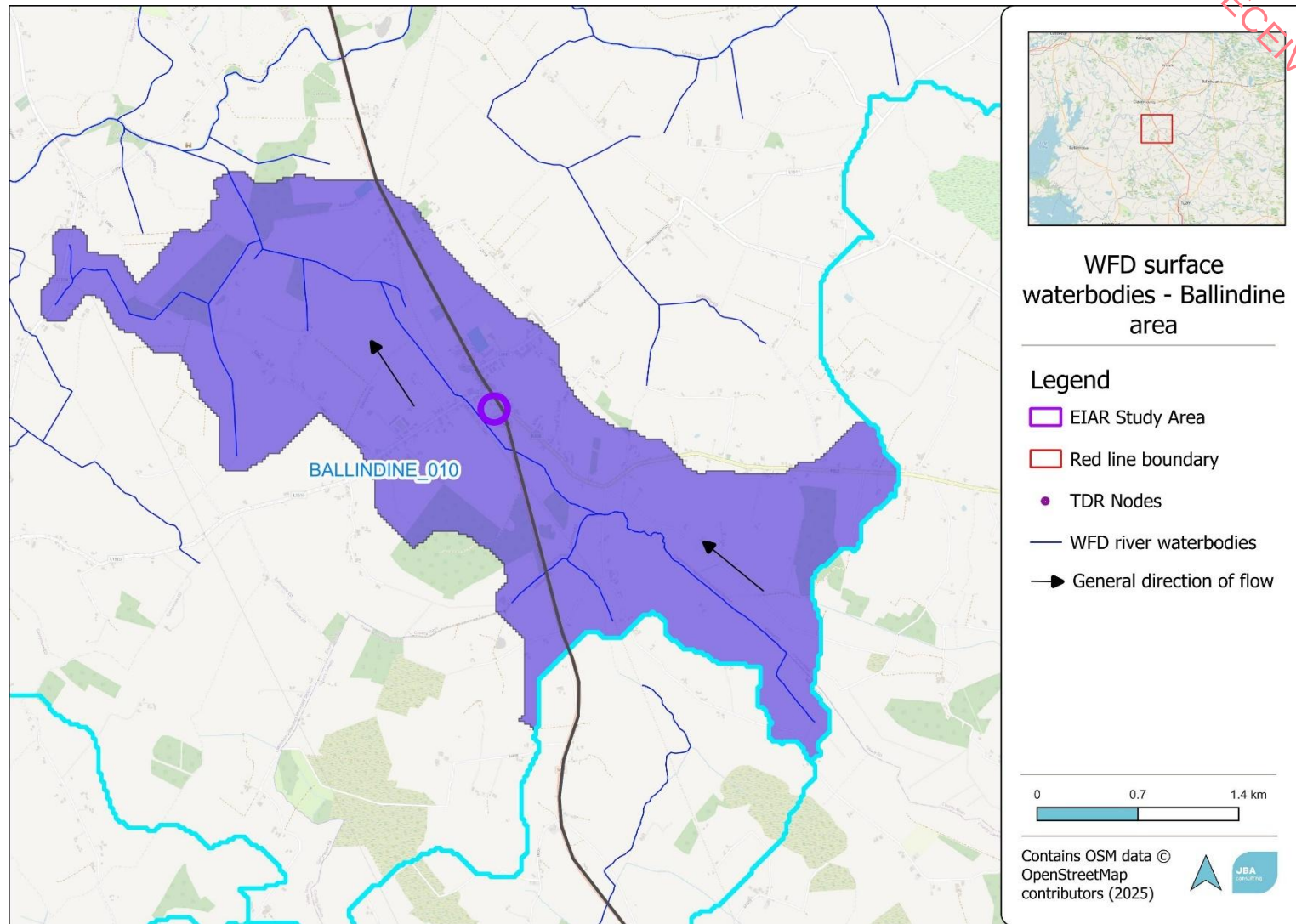


Figure 3-7: WFD surface waterbodies, Ballindine area

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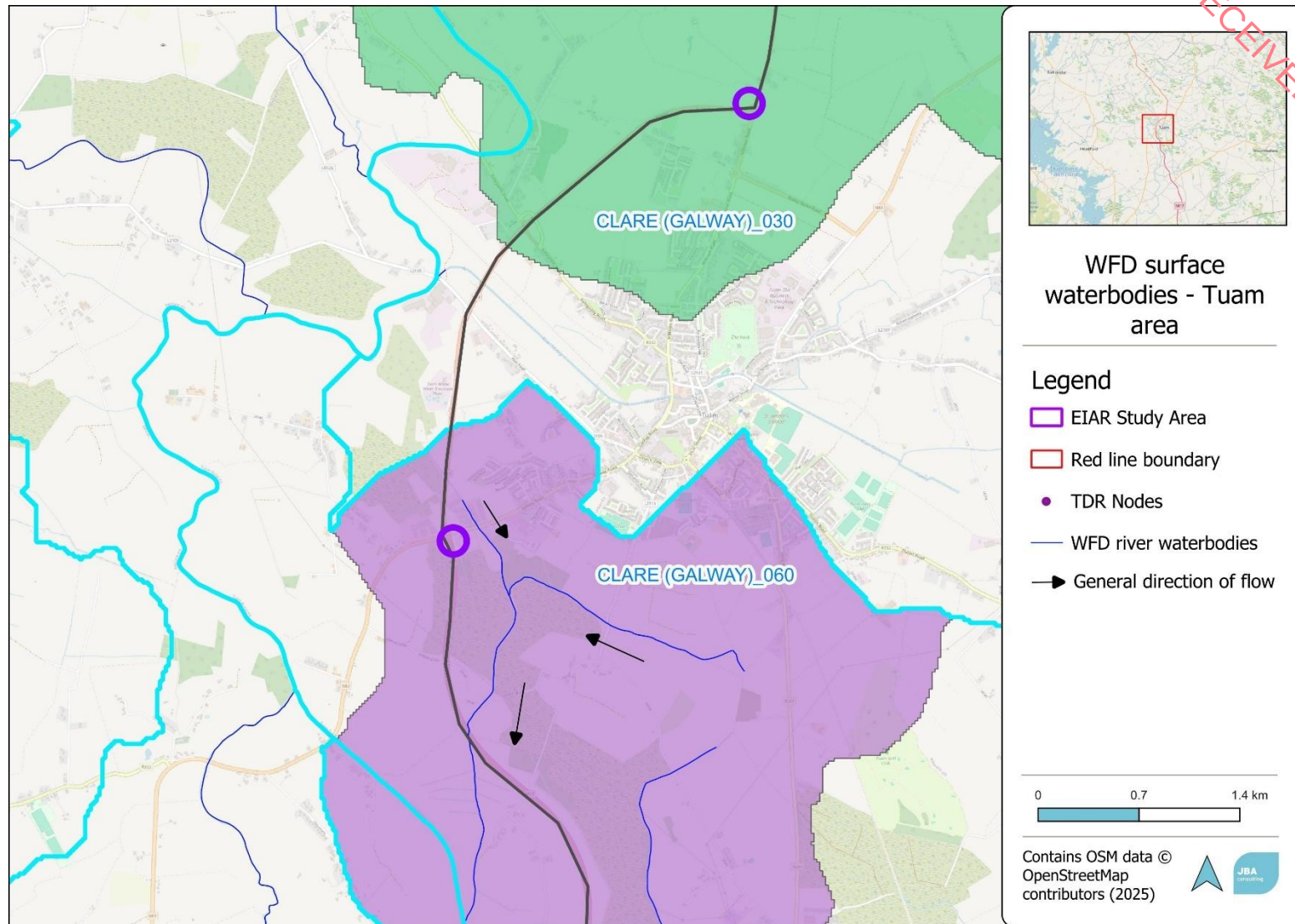


Figure 3-8: WFD surface waterbodies, Tuam area

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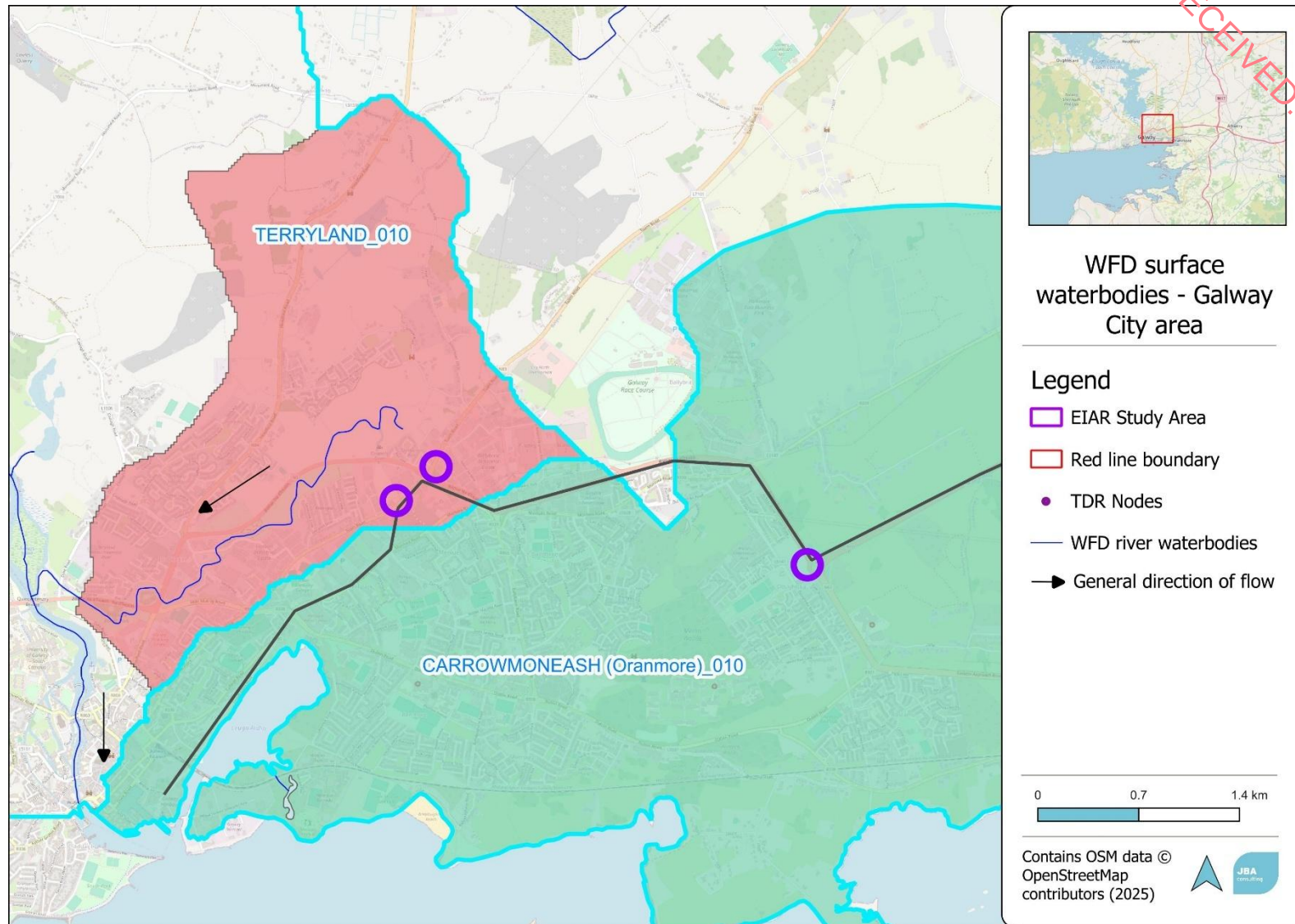


Figure 3-9: WFD surface waterbodies, Galway City area

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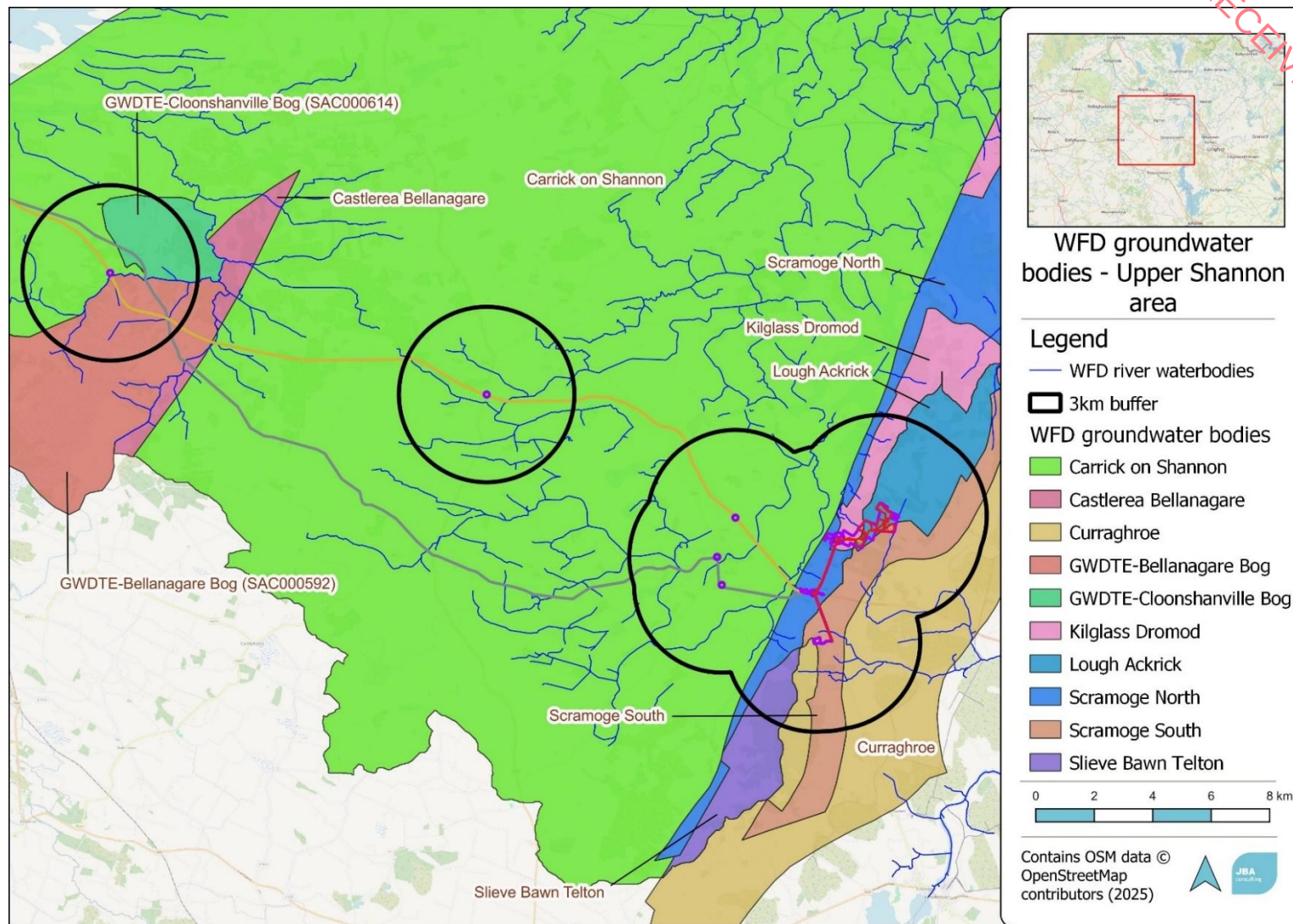


Figure 3-10: WFD groundwater bodies, Upper Shannon area

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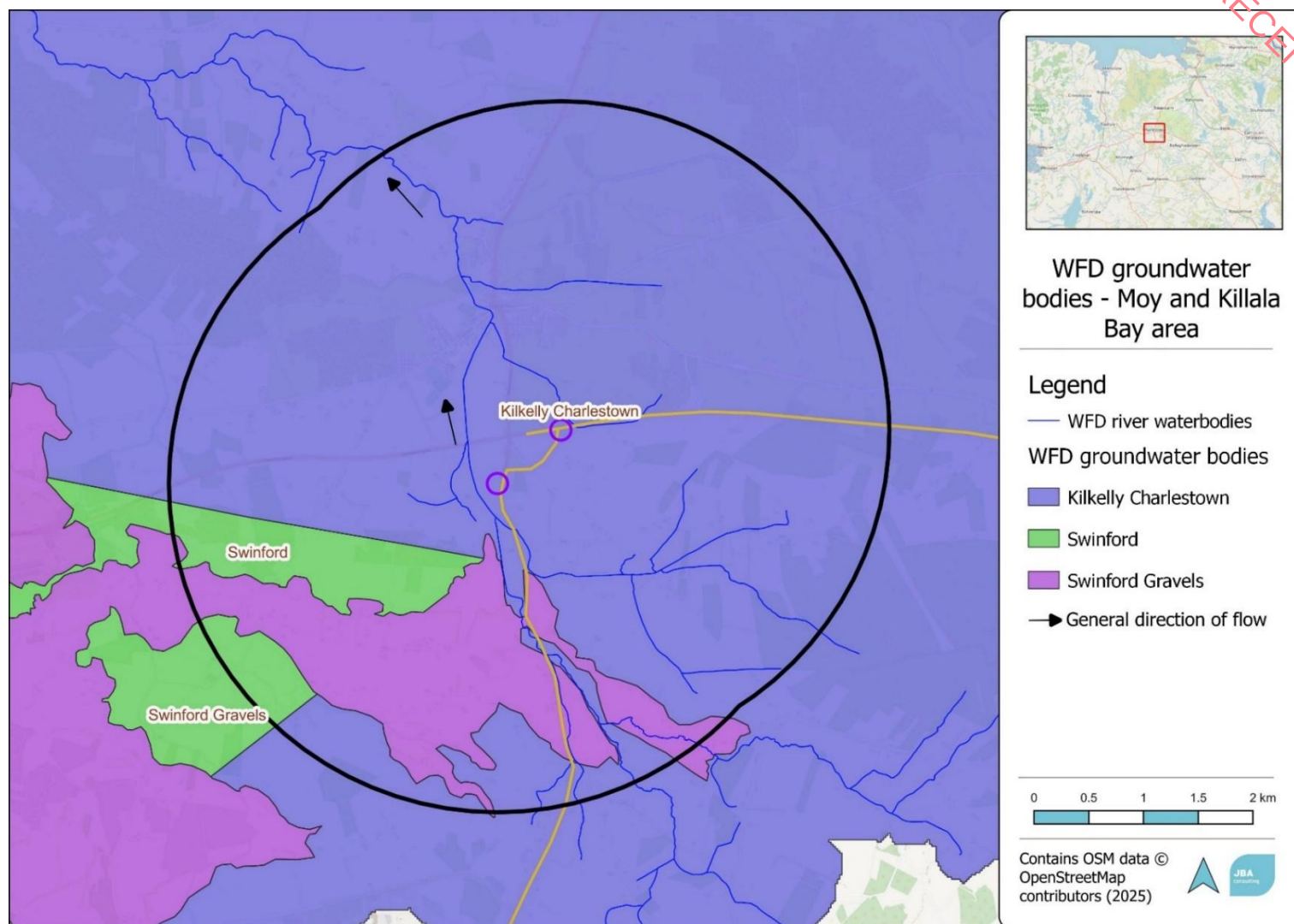


Figure 3-11: WFD groundwater bodies, Moy and Killala Bay area

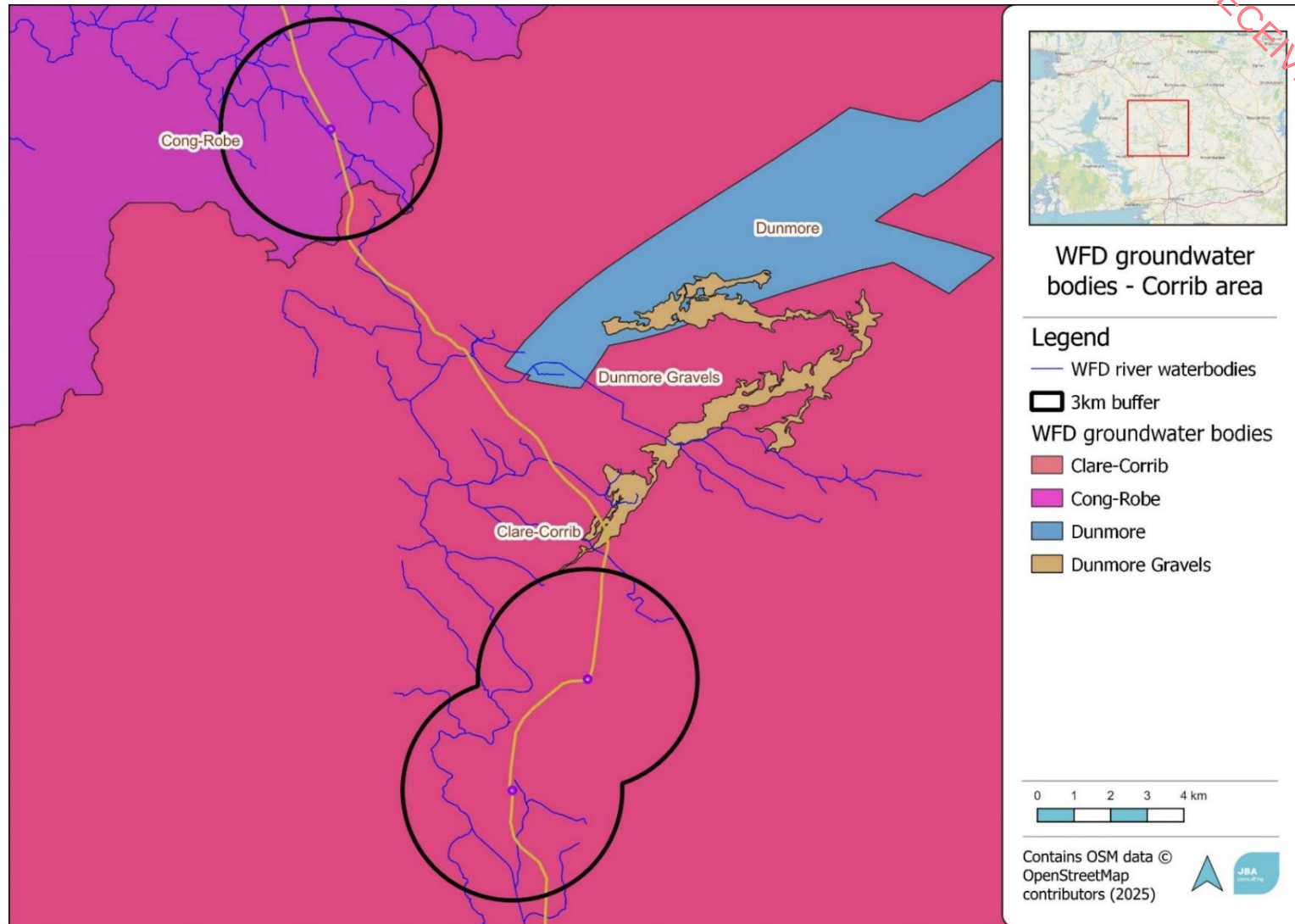


Figure 3-12: WFD groundwater bodies, Corrib area

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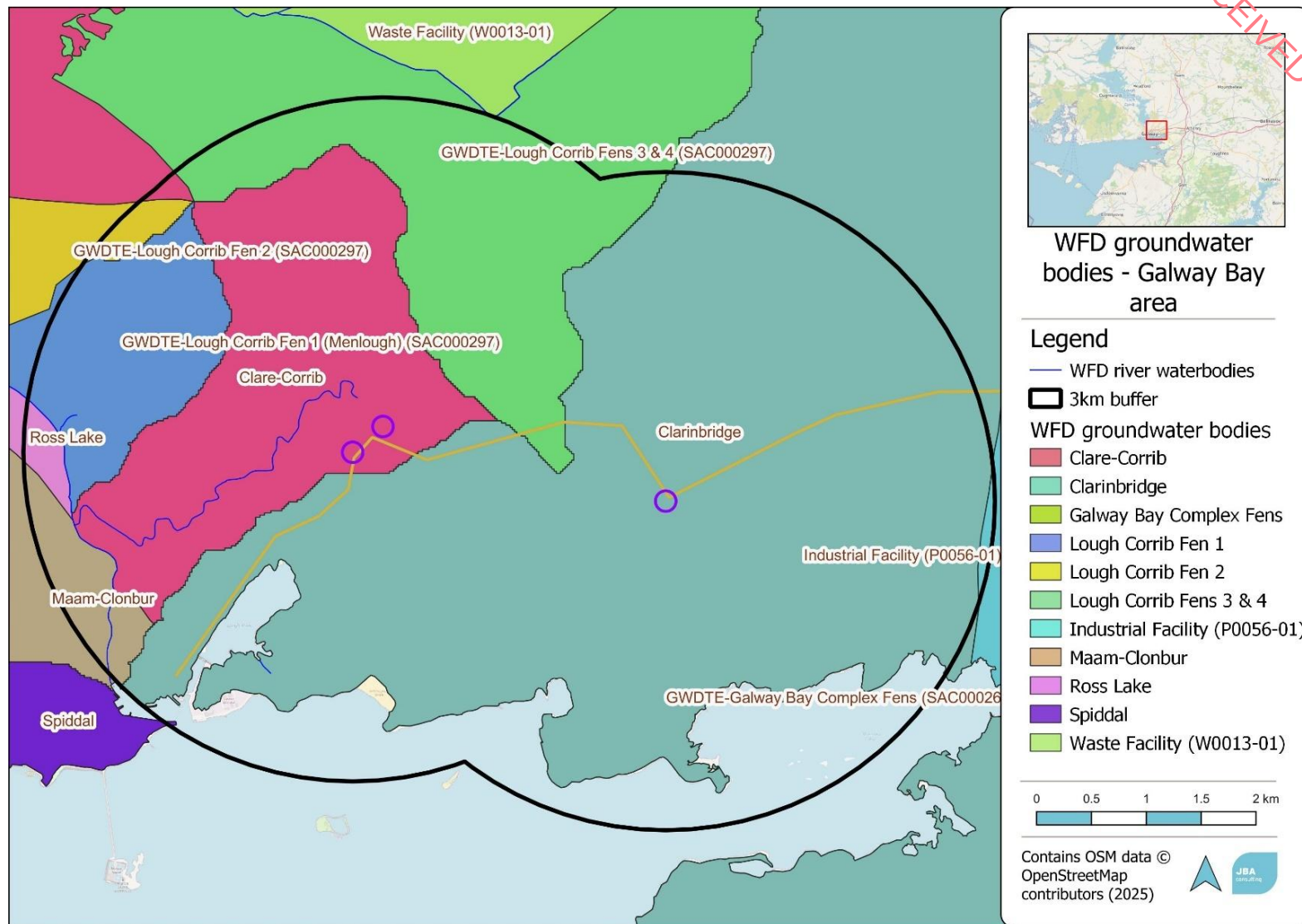


Figure 3-13: WFD groundwater bodies, Galway Bay area

### 3.1.5 Description of proposed works

The characteristics of the proposed Project are described in detail in Chapter 2: Project Description of the EIAR. A summary of the activities associated with the construction of the development is described in Table 3-1.

#### Environmental Impact Assessment Report

An EIAR was prepared for the proposed Project. Chapter 8: Water, Hydrology (Flood Risk Assessment) & Hydrogeology of the EIAR deals with water. Chapter 8 includes a full assessment of the existing surface and groundwater environments, identification of potential impacts, mitigation measures, and an assessment of residual effects following the implementation of the mitigation measures.

The mitigation measures outlined in Chapter 8: Water, Hydrology (Flood Risk Assessment) & Hydrogeology of the EIAR include surface water drainage, silt and sediment control, avoidance and management of potential spills and leaks, and specific measures for the protection of groundwater during excavations.

The EIAR concluded that the residual effects during the construction phase will be slight to imperceptible over the short-term, and slight during operation. The decommissioning phase will also be slight.

#### Construction Environmental Management Plan

A Construction Environmental Management Plan (CEMP) (Appendix 2.1) has been prepared by Mable Consulting Engineers for the proposed Project and outlines mitigation measures to be put in place during the construction phase of the proposed Project. The CEMP will be kept as a live document during the construction phase and will include the implementation of all mitigation measures outlined in the SWMP and EIAR.

The CEMP outlines the role of the Project Hydrologist, who will report to the Environmental Clerk of Works (ECoW) and will be responsible for inspection and review of drainage and water quality aspects during construction.

#### Surface Water Management Plan

A Surface Water Management Plan (SWMP) (Appendix 2.1.1) has been prepared by Mable Consulting Engineers for the proposed Project (Document Ref. No. 23604-SWMP-D1). The SWMP outlines the steps which will be taken during the construction, operation and decommissioning phases of the project with regard to management of surface water.

Most impacts to water are likely to occur during the construction phase of the project, through the generation of silt due to the movement of soil material and breakdown of underlying track surfaces. The SWMP outlines the general strategy onsite for the safe management of surface water during construction. This will be through the use of interceptor drains upstream of works areas, which will allow clean water to pass unimpeded through the works to downstream areas, where it will be discharged via buffered outfalls. Surface water passing through works areas will be routed through collector drains and passed through attenuation/settlement ponds, before discharging through a level spreader. The general arrangement is shown in Figure 3-14, from the SWMP.

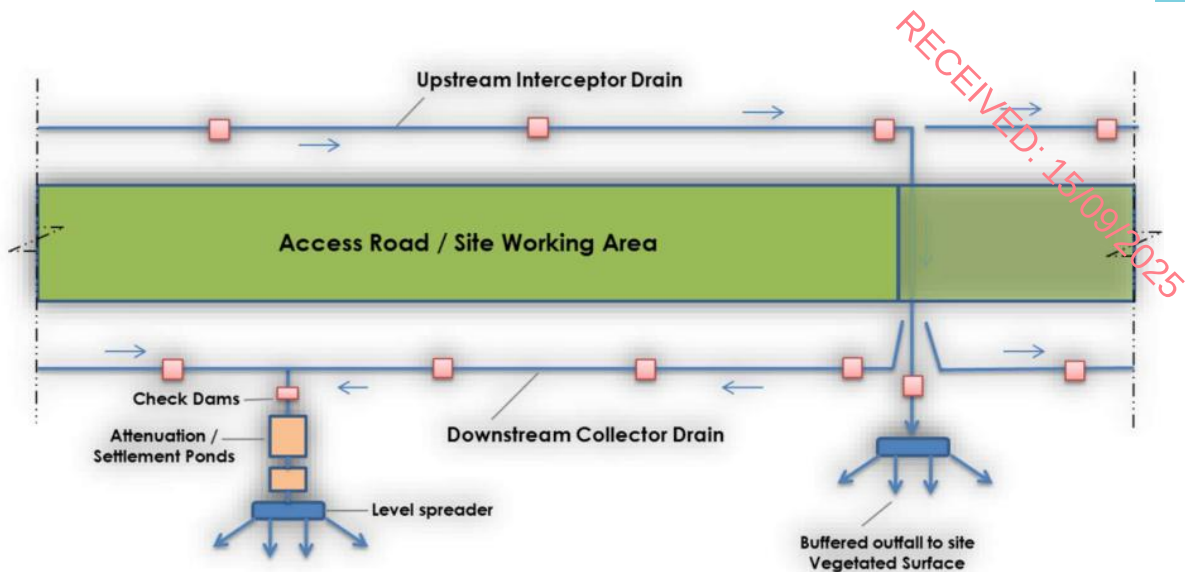


Figure 3-14: Surface water drainage control measures schematic (SWMP, Mable Consulting Engineers)

During construction there will be no direct discharge to existing watercourses. Discharge will be by means of level spreaders discharging over vegetated natural surfaces.

On completion of the works, constructed permanent works drainage will be incorporated and discharge into the existing drainage arrangements but will include Attenuation / Settlement Ponds at discharge points to ensure drainage discharges are controlled, inspected and managed throughout the Operation Stage of the project.

Multiple surface water management measures will be used, and are described in detail in the SWMP. The measures that will be implemented at Construction phase include:

- Clean Water Cut-off Drains;
- Dirty Water Cut-off Drains;
- Silt Fencing;
- Check Dams;
- Swales;
- Buffered Outfalls;
- Settlement Ponds;
- Silt Buster;
- Silt Bags;
- Sedimats;
- Vegetation Filters;

Measures that will be implemented at Operation phase will include:

- Maintenance Manual and Regime;
- Open Drains and Swales;
- Check Dams;
- Level Spreaders;
- Settlement Ponds.

Measures that will be implemented at Decommissioning Stage will include - the measures listed at Construction Stage above.

### 3.2 WFD waterbodies

WFD waterbodies in proximity to the proposed Project are summarised in Table 3-1 to Table 3-3 below and shown in Figure 3-1 to Figure 3-13 above. WFD waterbodies outside of where works are occurring have not been considered at this stage, as outlined in Section 3.1.2 above. Following the

Scoping stage, if impacts are considered likely on any waterbodies, then additional waterbodies downstream of these will be considered.

Table 3-1. WFD waterbodies in proximity to the proposed Project, Upper Shannon 26B and 26C catchment

| EU Code         | Waterbody name                       | Type        | WFD status | High Status Objective |
|-----------------|--------------------------------------|-------------|------------|-----------------------|
| IE_SH_26F030200 | FEORISH (TARMONBARRY)_020            | River       | Poor       | No                    |
| IE_SH_26M030100 | MOUNTAIN (ROSCOMMON)_010             | River       | Poor       | No                    |
| IE_SH_26O060890 | OWENUR_030                           | River       | Good       | No                    |
| IE_SH_26S010600 | SCRAMOGE_040                         | River       | Poor       | No                    |
| IE_SH_26S080200 | STROKESTOWN_010                      | River       | Poor       | No                    |
| IE_SH_26D100810 | DOON_010                             | River       | Moderate   | No                    |
| IE_SH_26O060300 | OWENUR_010                           | River       | Poor       | No                    |
| IE_SH_26M130080 | MANTUA STREAM_010                    | River       | Good       | No                    |
| IE_SH_26C020100 | CARRICKNABRAHER_010                  | River       | Good       | No                    |
| IE_SH_G_075     | Curraghroe                           | Groundwater | Good       | n/a                   |
| IE_SH_G_202     | Scramoge South                       | Groundwater | Good       | n/a                   |
| IE_SH_G_201     | Scramoge North                       | Groundwater | Good       | n/a                   |
| IE_SH_G_208     | Slieve Bawn Telton                   | Groundwater | Good       | n/a                   |
| IE_SH_G_156     | Lough Ackrick                        | Groundwater | Good       | n/a                   |
| IE_SH_G_120     | Kilglass Dromod                      | Groundwater | Good       | n/a                   |
| IE_SH_G_048     | Carrick on Shannon                   | Groundwater | Good       | n/a                   |
| IE_SH_G_241     | GWDTE-Bellanagare Bog (SAC000592)    | Groundwater | Good       | n/a                   |
| IE_SH_G_054     | Castlerea Bellanagare                | Groundwater | Good       | n/a                   |
| IE_SH_G_067     | GWDTE-Cloonshanville Bog (SAC000614) | Groundwater | Good       | n/a                   |
| IE_SH_26_748    | Kilglass                             | Lake        | Moderate   | No                    |
| IE_SH_26_749    | Grange North                         | Lake        | Moderate   | No                    |

Table 3-2. WFD waterbodies in proximity to the proposed Project, Moy and Killala Bay catchment

| EU Code         | Waterbody name         | Type        | WFD status | High Status Objective |
|-----------------|------------------------|-------------|------------|-----------------------|
| IE_WE_34C280100 | CHARLESTOWN STREAM_010 | River       | Moderate   | No                    |
| IE_WE_G_0032    | Kilkelly Charlestown   | Groundwater | Good       | n/a                   |
| IE_WE_G_0108    | Swinford Gravels       | Groundwater | Good       | n/a                   |
| IE_WE_G_0033    | Swinford               | Groundwater | Good       | n/a                   |

Table 3-3. WFD waterbodies in proximity to the proposed Project, Corrib and Galway Bay catchment

| EU Code         | Waterbody name               | Type        | WFD status | High Status Objective |
|-----------------|------------------------------|-------------|------------|-----------------------|
| IE_WE_30B030200 | BALLINDINE_010               | River       | Poor       | No                    |
| IE_WE_30C010500 | CLARE (GALWAY)_030           | River       | Good       | No                    |
| IE_WE_30C010800 | CLARE (GALWAY)_060           | River       | Poor       | No                    |
| IE_WE_30T010500 | TERRYLAND_010                | River       | Moderate   | No                    |
| IE_WE_29C050400 | CARROWMONEASH (ORANMORE)_010 | River       | Poor       | No                    |
| IE_WE_G_0019    | Cong-Robe                    | Groundwater | Good       | n/a                   |
| IE_WE_G_0020    | Clare-Corrib                 | Groundwater | Good       | n/a                   |

|              |                                                 |             |      |     |
|--------------|-------------------------------------------------|-------------|------|-----|
| IE_WE_G_0008 | Clarinbridge                                    | Groundwater | Good | n/a |
| IE_WE_G_0087 | GWDTE-Galway Bay Complex Fens (SAC000268)       | Groundwater | Good | n/a |
| IE_WE_G_0117 | Industrial Facility (P0056-01)                  | Groundwater | Poor | n/a |
| IE_WE_G_0119 | GWDTE-Lough Corrib Fen 1 (Menlough) (SAC000297) | Groundwater | Good | n/a |
| IE_WE_G_0109 | GWDTE-Lough Corrib Fen 2 (SAC000297)            | Groundwater | Good | n/a |
| IE_WE_G_0106 | GWDTE-Lough Corrib Fens 3 & 4 (SAC000297)       | Groundwater | Good | n/a |
| IE_WE_G_0084 | Waste Facility (W0013-01)                       | Groundwater | Poor | n/a |
| IE_WE_G_0010 | Ross Lake                                       | Groundwater | Good | n/a |
| IE_WE_G_0006 | Maam-Clonbur                                    | Groundwater | Good | n/a |
| IE_WE_G_0004 | Spiddal                                         | Groundwater | Good | n/a |

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### 3.3 Source-pathway-receptor model

The following table indicates which WFD waterbodies have been screened in or out of the assessment and the reasons for this decision. These WFD waterbodies which have been screened in are shown in Figure 3-15 and Figure 3-16.

Table 3-4. Screening outcome for previously identified WFD waterbodies in the Upper Shannon catchment area (bold are screened in)

| Waterbody                        | Waterbody type | Hydraulic linkage                                                                                                                                                                                                                                                                                                 | Screening outcome  |
|----------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>FEORISH (TARMONBARRY)_020</b> | <b>River</b>   | <b>Construction works at wind farm site proposed adjacent to waterbody.</b>                                                                                                                                                                                                                                       | <b>Screened in</b> |
| <b>MOUNTAIN (ROSCOMMON)_010</b>  | <b>River</b>   | <b>Construction works at wind farm site proposed adjacent to waterbody.</b>                                                                                                                                                                                                                                       | <b>Screened in</b> |
| <b>OWENUR_030</b>                | <b>River</b>   | <b>Construction works at wind farm site proposed adjacent to waterbody.</b>                                                                                                                                                                                                                                       | <b>Screened in</b> |
| SCRAMOGE_040                     | River          | Minor accommodating works at TDR Node No. 4160 comprising hedge/tree cutting and street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                               | Screened out       |
| STROKESTOWN_010                  | River          | Minor accommodating works at TDR Node Nos. 4155, 4160, and 3070 comprising hedge/tree cutting, roundabout/traffic island/footpath works, and street furniture relocation/removal.<br>Nodes are not adjacent to waterbodies and nature of accommodating works is not likely to result in impacts to any waterbody. | Screened out       |
| DOON_010                         | River          | Minor accommodating works at TDR Node No. 3070 comprising roundabout works and street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                                 | Screened out       |
| OWENUR_010                       | River          | Minor accommodating works at TDR Node No. 3050 comprising roundabout works.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                                                                         | Screened out       |
| MANTUA STREAM_010                | River          | Minor accommodating works at TDR Node No. 3050 comprising roundabout works.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                                                                         | Screened out       |
| CARRICKNABRAHER_010              | River          | Minor accommodating works at TDR Node No. 3030 comprising roundabout works.<br>Node is not adjacent to a waterbody and nature                                                                                                                                                                                     | Screened out       |

| Waterbody                            | Waterbody type     | Hydraulic linkage                                                                                                                                                                                                                                                                    | Screening outcome  |
|--------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                                      |                    | of accommodating works is not likely to result in impacts to any waterbody.                                                                                                                                                                                                          |                    |
| <b>Curraghroe</b>                    | <b>Groundwater</b> | <b>Construction works proposed within this groundwater body at GCR.</b>                                                                                                                                                                                                              | <b>Screened in</b> |
| <b>Scramoge South</b>                | <b>Groundwater</b> | <b>Construction works proposed within this groundwater body at GCR.</b>                                                                                                                                                                                                              | <b>Screened in</b> |
| <b>Scramoge North</b>                | <b>Groundwater</b> | <b>Construction works proposed within this groundwater body at GCR.</b>                                                                                                                                                                                                              | <b>Screened in</b> |
| Slieve Bawn Telton                   | Groundwater        | No construction proposed within this groundwater body.                                                                                                                                                                                                                               | Screened out       |
| <b>Lough Ackrick</b>                 | <b>Groundwater</b> | <b>Construction works proposed within this groundwater body at wind farm site.</b>                                                                                                                                                                                                   | <b>Screened in</b> |
| <b>Kilglass Dromod</b>               | <b>Groundwater</b> | <b>Construction works proposed within this groundwater body at wind farm site.</b>                                                                                                                                                                                                   | <b>Screened in</b> |
| Carrick on Shannon                   | Groundwater        | Only minor accommodating works at TDR Nodes (works to roundabouts/traffic islands/footpaths, relocation or removal of street furniture, limited hedge/tree cutting) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater. | Screened out       |
| GWDTE-Bellanagare Bog (SAC000592)    | Groundwater        | Only minor accommodating works at TDR Nodes (works to roundabout) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater.                                                                                                   | Screened out       |
| Castlerea Bellanagare                | Groundwater        | No construction proposed within this groundwater body.                                                                                                                                                                                                                               | Screened out       |
| GWDTE-Cloonshanville Bog (SAC000614) | Groundwater        | No construction proposed within this groundwater body.                                                                                                                                                                                                                               | Screened out       |
| <b>Kilglass</b>                      | <b>Lake</b>        | <b>Construction works at the proposed wind farm site directly upstream of this waterbody.</b>                                                                                                                                                                                        | <b>Screened in</b> |
| <b>Grange North</b>                  | <b>Lake</b>        | <b>Construction works at the proposed wind farm site directly upstream of this waterbody.</b>                                                                                                                                                                                        | <b>Screened in</b> |

Table 3-5. Screening outcome for previously identified WFD waterbodies in the Moy and Killala Bay catchment area (bold are screened in)

| Waterbody              | Waterbody type | Hydraulic linkage                                                                                                                                                                                                                                                                                 | Screening outcome |
|------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| CHARLESTOWN STREAM_010 | River          | Minor accommodating works at TDR Node Nos. 3020 and 3025 comprising hedge/tree cutting, roundabout/traffic island works, and street furniture relocation/removal.<br>Nodes are not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody. | Screened out      |
| Kilkelly Charlestown   | Groundwater    | Only minor accommodating works at TDR Nodes (works to roundabouts/traffic islands, relocation or removal of street furniture, limited hedge/tree cutting) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater.                        | Screened out      |
| Swinford Gravels       | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                            | Screened out      |
| Swinford               | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                            | Screened out      |

Table 3-6. Screening outcome for previously identified WFD waterbodies in the Corrib and Galway

## Bay catchment area (bold are screened in)

| Waterbody                                       | Waterbody type | Hydraulic linkage                                                                                                                                                                                                                                                                     | Screening outcome |
|-------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| BALLINDINE_010                                  | River          | Minor accommodating works at TDR Node No. 2090 comprising traffic island works.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                                         | Screened out      |
| CLARE (GALWAY)_030                              | River          | Minor accommodating works at TDR Node No. 2060 comprising hedge/tree cutting, roundabout/traffic island works, and street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody. | Screened out      |
| CLARE (GALWAY)_060                              | River          | Minor accommodating works at TDR Node No. 2055 comprising roundabout works and street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                     | Screened out      |
| TERRYLAND_010                                   | River          | Minor accommodating works at TDR Node Nos. 2020 and 2025 comprising road widening and street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                              | Screened out      |
| CARROWMONEASH (ORANMORE)_010                    | River          | Minor accommodating works at TDR Node No. 2040 comprising street furniture relocation/removal.<br>Node is not adjacent to a waterbody and nature of accommodating works is not likely to result in impacts to any waterbody.                                                          | Screened out      |
| Cong-Robe                                       | Groundwater    | Only minor accommodating works at TDR Nodes (works to traffic islands, relocation or removal of street furniture) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater.                                                    | Screened out      |
| Clare-Corrib                                    | Groundwater    | Only minor accommodating works at TDR Nodes (works to roundabouts/traffic islands, relocation or removal of street furniture, limited hedge/tree cutting) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater.            | Screened out      |
| Clarinbridge                                    | Groundwater    | Only minor accommodating works at TDR Nodes (relocation or removal of street furniture) are proposed within the groundwater body. The nature of works proposed is unlikely to interact with groundwater.                                                                              | Screened out      |
| GWDTE-Galway Bay Complex Fens (SAC000268)       | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| Industrial Facility (P0056-01)                  | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| GWDTE-Lough Corrib Fen 1 (Menlough) (SAC000297) | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| GWDTE-Lough Corrib Fen 2 (SAC000297)            | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| GWDTE-Lough Corrib Fens 3 & 4 (SAC000297)       | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| Waste Facility (W0013-01)                       | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| Ross Lake                                       | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |
| Maam-Clonbur                                    | Groundwater    | No construction proposed within this groundwater body.                                                                                                                                                                                                                                | Screened out      |

|         |             |                                                        |              |
|---------|-------------|--------------------------------------------------------|--------------|
| Spiddal | Groundwater | No construction proposed within this groundwater body. | Screened out |
|---------|-------------|--------------------------------------------------------|--------------|

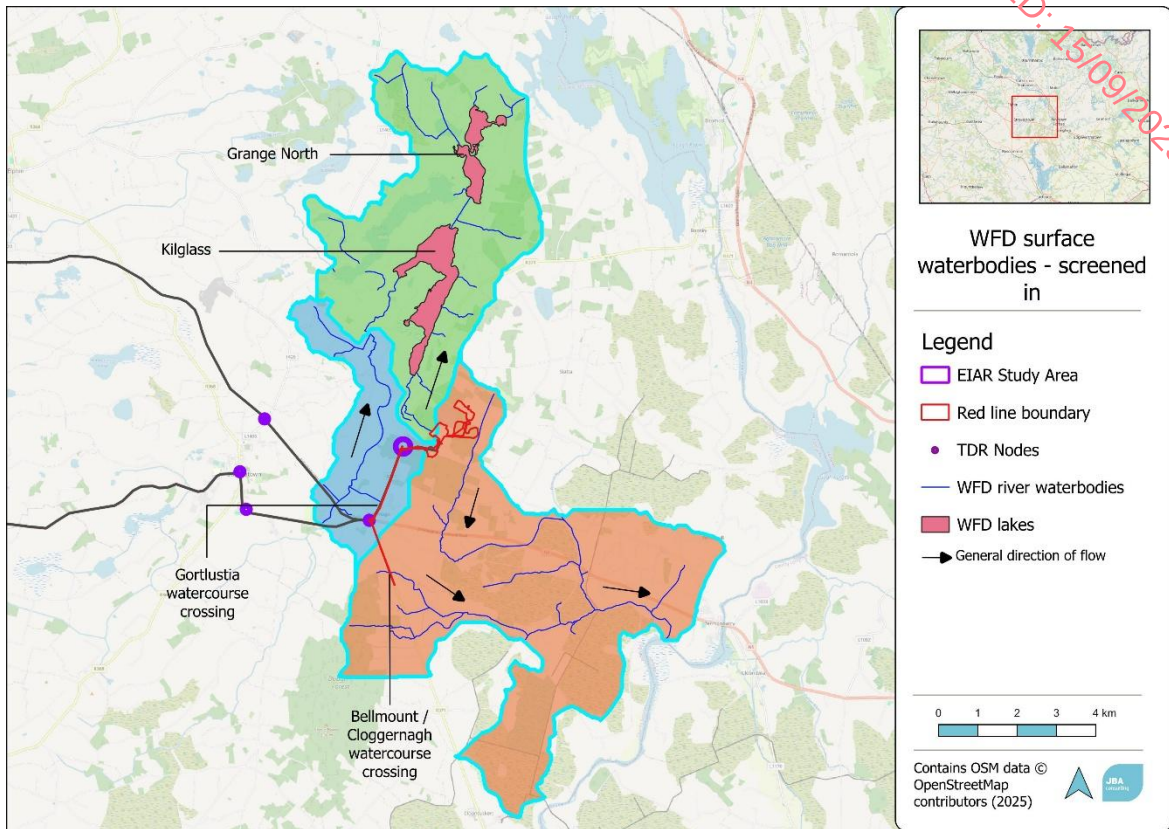


Figure 3-15: Screened in WFD surface waterbodies

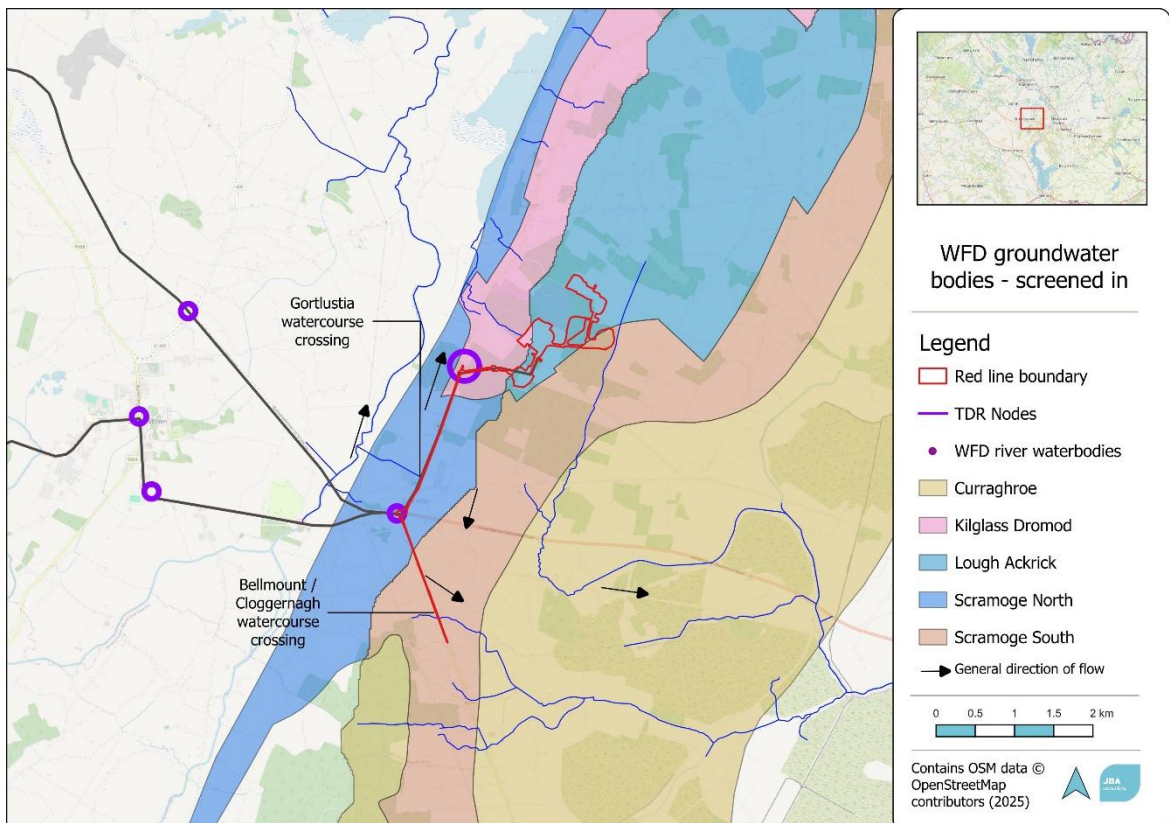


Figure 3-16: Screened in WFD groundwater bodies

### 3.4 Screening statement

The following WFD waterbodies are being brought forward into the detailed assessment (Stage 2 and Stage 3), as an impact on their quality elements is possible as a result of the proposed Project:

River waterbodies:

- FEORISH (TARMONBARRY)\_020
- MOUNTAIN (ROSCOMMON)\_010
- OWENUR\_030

Groundwater bodies:

- Curraghroe
- Scramoge South
- Scramoge North
- Lough Ackrick
- Kilglass Dromod

Lake waterbodies

- Kilglass
- Grange North

## 4 WFD Scoping Assessment

### 4.1 Overview

This scoping assessment identifies whether the waterbody's receptors, identified during the screening assessment, are at risk from the proposed works discussed in Chapter 2: Project Description of the EIAR. The proposed Project works are being appraised in terms of their potential impact on WFD status and objectives, with account taken of the development's design and the assessment and proposed construction and operational measures outlined in Appendix 2.1: CEMP and Appendix 2.1.1: SWMP by Mable Consulting Engineers, and in the EIAR for the proposed Project.

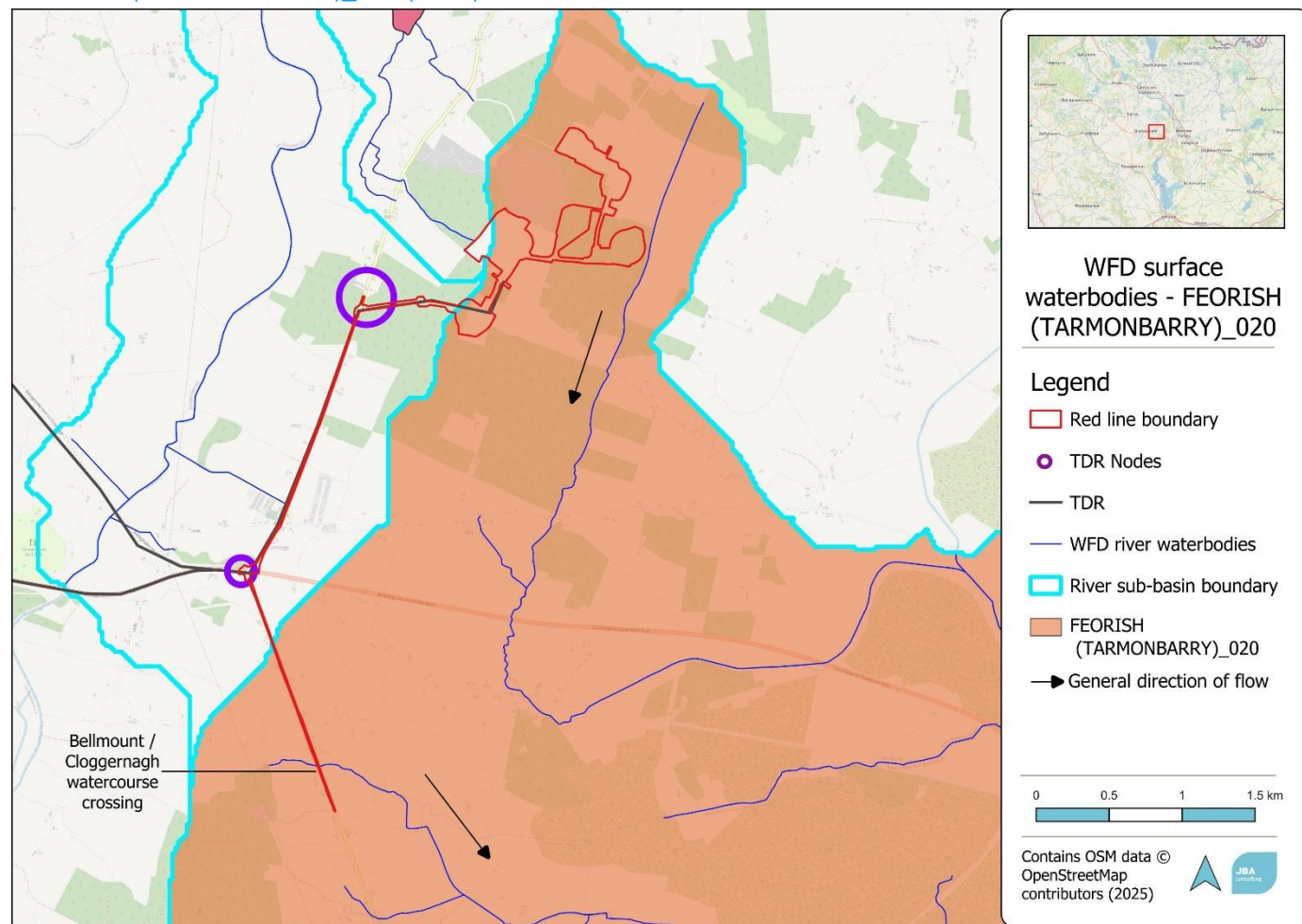
If any Quality Elements are found to be at risk of detrimental impact, further assessment and/or mitigation may be required.

Article 4.7 of the Directive protects against a deterioration in status or failure to meet WFD objectives resulting from new modifications or sustainable human development activities (if all conditions set out under this Article are met). If the assessment procedure predicts that an activity will cause deterioration in waterbody status or prevent a waterbody from meeting its ecological objectives, then an assessment is also required against the conditions listed in Article 4.7 of the WFD. If all the assessment conditions are met, there will not be a breach of the WFD, and compliance will be attained.

### 4.2 Scoping assessment

For each waterbody screened into the assessment, details on the status of each element, as described by the EPA's interactive GIS data explorer are given below. A summary of the scoping assessment is shown in the following tables. Tables 4-1 to 4-3 below describe the quality elements of the waterbody and potential impacts because of the proposed Project, while Table 4-4 below summarises the findings of the scoping assessment for the waterbody.

#### 4.2.1 FEORISH (TARMONBARRY)\_020 (RWB)



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Figure 4-1: FEORISH (TARMONBARRY)\_020 river waterbody

Table 4-1: Scoping of biological quality elements for FEORISH (TARMONBARRY)\_020

| Quality element                              | Assessment criteria                                                                                                                                                                             | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic flora (macrophytes and phytobenthos) | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                                                                                                  | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. As a result, no wind turbines or access roads are proposed adjacent to the FEORISH (TARMONBARRY)_020, with the only direct interaction being the GCR crossing it at one point as shown in Figure 4-1.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for aquatic flora (macrophytes and phytobenthos).</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |
| Benthic invertebrate fauna                   | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Level of diversity</li> <li>- Ratio of disturbance sensitive taxa to insensitive taxa</li> </ul> | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. As a result, no wind turbines or access roads are proposed adjacent to the FEORISH (TARMONBARRY)_020, with the only direct interaction being the GCR crossing it at one point as shown in Figure 4-1.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for benthic invertebrate fauna.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                   |
| Fish                                         | <ul style="list-style-type: none"> <li>- Species composition</li> <li>- Abundance</li> <li>- Type-specific disturbance-sensitive species present</li> <li>- Age structure</li> </ul>            | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. As a result, no wind turbines or access roads are proposed adjacent to the FEORISH (TARMONBARRY)_020, with the only direct interaction being the GCR crossing it at one point as shown in Figure 4-1.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for fish.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|               |                                                                                                                                   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                                                                                                                   |    | <p>Fish migration will not be at risk as a result of the proposed activities. Construction activities will be temporary and will not impact the waterbody directly, so do not pose a direct risk to fish.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Phytoplankton | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Planktonic bloom status</li> </ul> | No | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. As a result, no wind turbines or access roads are proposed adjacent to the FEORISH (TARMONBARRY)_020, with the only direct interaction being the GCR crossing it at one point as shown in Figure 4-1.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for phytoplankton.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |

Table 4-2: Scoping of hydromorphological quality elements for FEORISH (TARMONBARRY)\_020

| Quality element     | Assessment criteria                                                                                                                 | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrological regime | <ul style="list-style-type: none"> <li>- Quantity and dynamics of water flow</li> <li>- Connection to groundwater bodies</li> </ul> | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water runoff will not discharge directly to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders. A minor reduction in surface water runoff rates may occur, but this does not represent an impact to the overall hydrological regime given the small volumes of runoff from the site relative to the scale of the waterbody.</p> <p>During construction there will be no discharge of site runoff or water without agreement of the relevant authorities and an appropriate discharge licence, if relevant. As per the SWMP, a temporary surface water attenuation tank / settling pond will be installed during construction to collect surface water from all active working areas. Excess stormwater can be conveyed to this holding pond if and when necessary.</p> |
| River continuity    | <ul style="list-style-type: none"> <li>- Lateral connectivity</li> <li>- Longitudinal connectivity</li> </ul>                       | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, so there will be no resultant impact on river continuity.</p> <p>Operational phase impacts are not anticipated as the scheme does not require any interventions in the river channel itself or its riparian zone, and so will not affect its connectivity.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Morphological       | <ul style="list-style-type: none"> <li>- River depth and width</li> </ul>                                                           | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water will not discharge directly</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|            |                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| conditions | variation<br>- Structure and substrate of riverbed<br>- Structure of the riparian zone |  | to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders, so there will be no resultant impact on morphological conditions as fine sediment will be filtered via these measures.<br><br>Operational phase impacts are not anticipated as the scheme does not require any interventions in the river channel itself or its riparian zone. |
|------------|----------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table 4-3: Scoping of physico-chemical quality elements for FEORISH (TARMONBARRY)\_020

| Quality element     | Assessment criteria                                                                                                                                                                                                                                                     | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General             | <ul style="list-style-type: none"> <li>- Thermal conditions</li> <li>- Oxygenation conditions</li> <li>- Salinity</li> <li>- Acidification status</li> <li>- Nutrient conditions</li> </ul>                                                                             | No                          | <p>Without design measures in place, the construction phase could lead to the mobilisation of fine? sediment in surface water, which could lead to a deterioration in status. This is not expected to occur due to the measures included in the EIAR and SWMP.</p> <p>No direct discharges to the watercourse will occur due to the drainage design as outlined in the SWMP.</p> <p>Operational phase impacts are not anticipated due to the design and nature of the scheme, which includes attenuation and hydrocarbon interceptors.</p>                                                                                                                                               |
| Specific pollutants | <ul style="list-style-type: none"> <li>- Pollution by all priority substances identified as being discharged into the body of water</li> <li>- Pollution by other substances identified as being discharged in significant quantities into the body of water</li> </ul> | No                          | <p>Without mitigation measures in place, the construction phase could lead to the accidental spills of hydrocarbons (such as from construction vehicles) to surface water draining to the watercourse. This is not expected to occur due to the measures included in the EIAR, SWMP, and CEMP.</p> <p>Without design measures in place, pollutants such as hydrocarbons from cars on-site could discharge to WFD waterbodies via the surface drainage infrastructure from the site. Direct discharge will not occur, with surface water passing through a settlement pond/attenuation tank and hydrocarbon interceptor before discharging via level spreaders to vegetated surfaces.</p> |

Table 4-4: Scoping summary assessment for FEORISH (TARMONBARRY)\_020

| Receptor                | Potential risk to receptor? | Note the risk issue(s) for impact assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Further assessment and/or mitigation required? |
|-------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Hydromorphology quality | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, nor will there be direct discharges to the watercourse. No direct morphological impacts are therefore likely.</p> <p>Construction phase impacts are not anticipated due to the inclusion of design measures in the SWMP, CEMP, and EIAR. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Hydromorphology quality.</p> | No further assessment required.                |

|                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
|--------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Biological quality       | No | <p>No in-channel works or works along banks are proposed, so there will be no direct risk to habitats or species.</p> <p>Fish migration will not be at risk as a result of the proposed activities.</p> <p>Construction activities could result in suspended solids or pollutants entering the watercourse from the site. However, these construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Biological quality.</p> | No further assessment required. |
| Physico-Chemical quality | No | <p>There will be no long-term change to general chemical quality elements as a result of the proposed Project. Construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact physico-chemical quality</p>                                                                                                                                                                                                                      | No further assessment required. |

4.2.2 MOUNTAIN (ROSCOMMON)\_010 (RWB)

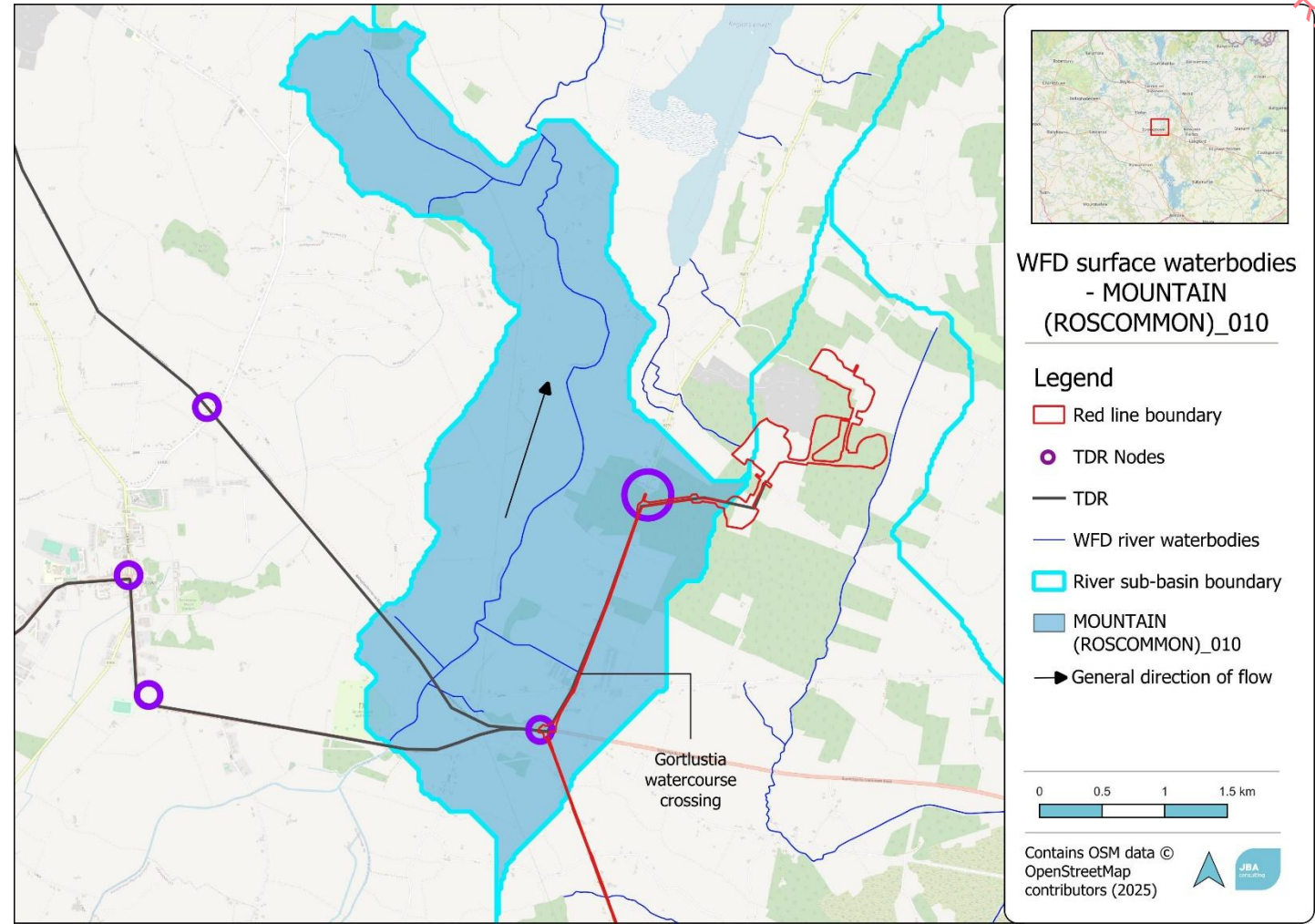


Figure 4-2: MOUNTAIN (ROSCOMMON)\_020 river waterbody

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Table 4-5: Scoping of biological quality elements MOUNTAIN (ROSCOMMON)\_010

| Quality element                              | Assessment criteria                                                                                                                                                                             | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic flora (macrophytes and phytobenthos) | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                                                                                                  | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. No works directly interact with the MOUNTAIN (ROSCOMMON)_010 waterbody; the GCR is closest to a small tributary drain as shown in Figure 4-2, but no direct interactions are proposed.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for aquatic flora (macrophytes and phytobenthos).</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |
| Benthic invertebrate fauna                   | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Level of diversity</li> <li>- Ratio of disturbance sensitive taxa to insensitive taxa</li> </ul> | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. No works directly interact with the MOUNTAIN (ROSCOMMON)_010 waterbody; the GCR is closest to a small tributary drain as shown in Figure 4-2, but no direct interactions are proposed.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for benthic invertebrate fauna.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                   |
| Fish                                         | <ul style="list-style-type: none"> <li>- Species composition</li> <li>- Abundance</li> <li>- Type-specific disturbance-sensitive species present</li> <li>- Age structure</li> </ul>            | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. No works directly interact with the MOUNTAIN (ROSCOMMON)_010 waterbody; the GCR is closest to a small tributary drain as shown in Figure 4-2, but no direct interactions are proposed.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|               |                                                                                                                                   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                                                                                                                   |    | <p>for fish.</p> <p>Fish migration will not be at risk as a result of the proposed activities. Construction activities will be temporary and will not impact the waterbody directly, so do not pose a direct risk to fish.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Phytoplankton | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Planktonic bloom status</li> </ul> | No | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. No works directly interact with the MOUNTAIN (ROSCOMMON)_010 waterbody; the GCR is closest to a small tributary drain as shown in Figure 4-2, but no direct interactions are proposed.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for phytoplankton.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |

Table 4-6: Scoping of hydromorphological quality elements for MOUNTAIN (ROSCOMMON)\_010

| Quality element     | Assessment criteria                                                                                                                 | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrological regime | <ul style="list-style-type: none"> <li>- Quantity and dynamics of water flow</li> <li>- Connection to groundwater bodies</li> </ul> | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water will not discharge directly to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders. A minor reduction in surface water runoff rates may occur, but this does not represent an impact to the overall hydrological regime given the small volumes of runoff from the site relative to the scale of the waterbody.</p> <p>During construction there will be no discharge of site runoff or water without agreement of the relevant authorities and an appropriate discharge licence, if relevant. As per the SWMP, a temporary surface water attenuation tank / settling pond will be installed during construction to collect surface water from all active working areas. Excess stormwater can be conveyed to this holding pond if and when necessary.</p> |
| River continuity    | <ul style="list-style-type: none"> <li>- Lateral connectivity</li> <li>- Longitudinal connectivity</li> </ul>                       | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, so there will be no resultant impact on river continuity.</p> <p>Operational phase impacts are not anticipated as the scheme does not require any interventions in the river</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                          |                                                                                                                                                                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                                                                                                                                              |    | channel itself or its riparian zone, and so will not affect its connectivity.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Morphological conditions | <ul style="list-style-type: none"> <li>- River depth and width variation</li> <li>- Structure and substrate of riverbed</li> <li>- Structure of the riparian zone</li> </ul> | No | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water will not discharge directly to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders, so there will be no resultant impact on morphological conditions.</p> <p>Operational phase impacts are not anticipated as the scheme does not require any interventions in the river channel itself or its riparian zone, and so will not affect its connectivity.</p> |

Table 4-7 : Scoping of physico-chemical quality elements for MOUNTAIN (ROSCOMMON)\_010

| Quality element     | Assessment criteria                                                                                                                                                                                                                                                     | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General             | <ul style="list-style-type: none"> <li>- Thermal conditions</li> <li>- Oxygenation conditions</li> <li>- Salinity</li> <li>- Acidification status</li> <li>- Nutrient conditions</li> </ul>                                                                             | No                          | <p>Without design measures in place, the construction phase could lead to the mobilisation of sediment in surface water, which could lead to a deterioration in status. This is not expected to occur due to the measures included in the EIAR and SWMP.</p> <p>No direct discharges to the watercourse will occur due to the drainage design as outlined in the SWMP.</p> <p>Operational phase impacts are not anticipated due to the design and nature of the scheme, which includes attenuation and hydrocarbon interceptors.</p>                                                                                                                                                     |
| Specific pollutants | <ul style="list-style-type: none"> <li>- Pollution by all priority substances identified as being discharged into the body of water</li> <li>- Pollution by other substances identified as being discharged in significant quantities into the body of water</li> </ul> | No                          | <p>Without mitigation measures in place, the construction phase could lead to the accidental spills of hydrocarbons (such as from construction vehicles) to surface water draining to the watercourse. This is not expected to occur due to the measures included in the EIAR, SWMP, and CEMP.</p> <p>Without design measures in place, pollutants such as hydrocarbons from cars on-site could discharge to WFD waterbodies via the surface drainage infrastructure from the site. Direct discharge will not occur, with surface water passing through a settlement pond/attenuation tank and hydrocarbon interceptor before discharging via level spreaders to vegetated surfaces.</p> |

Table 4-8: Scoping summary assessment for MOUNTAIN (ROSCOMMON)\_010 RWB

| Receptor                | Potential risk to receptor? | Note the risk issue(s) for impact assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Further assessment and/or mitigation required? |
|-------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Hydromorphology quality | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, nor will there be direct discharges to the watercourse. No direct morphological impacts are therefore likely.</p> <p>Construction phase impacts are not anticipated due to the inclusion of design measures in the SWMP, CEMP, and EIAR. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact</p> | No further assessment required.                |

|                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
|--------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                          |    | Hydromorphology quality.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |
| Biological quality       | No | <p>No in-channel works or works along banks are proposed, so there will be no direct risk to habitats or species.</p> <p>Fish migration will not be at risk as a result of the proposed activities.</p> <p>Construction activities could result in suspended solids or pollutants entering the watercourse from the site. However, these construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Biological quality.</p> | No further assessment required. |
| Physico-Chemical quality | No | There will be no long-term change to general chemical quality elements as a result of the proposed Project. Construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact physico-chemical quality                                                                                                                                                                                                                             | No further assessment required. |

4.2.3 OWENUR\_030 (RWB)

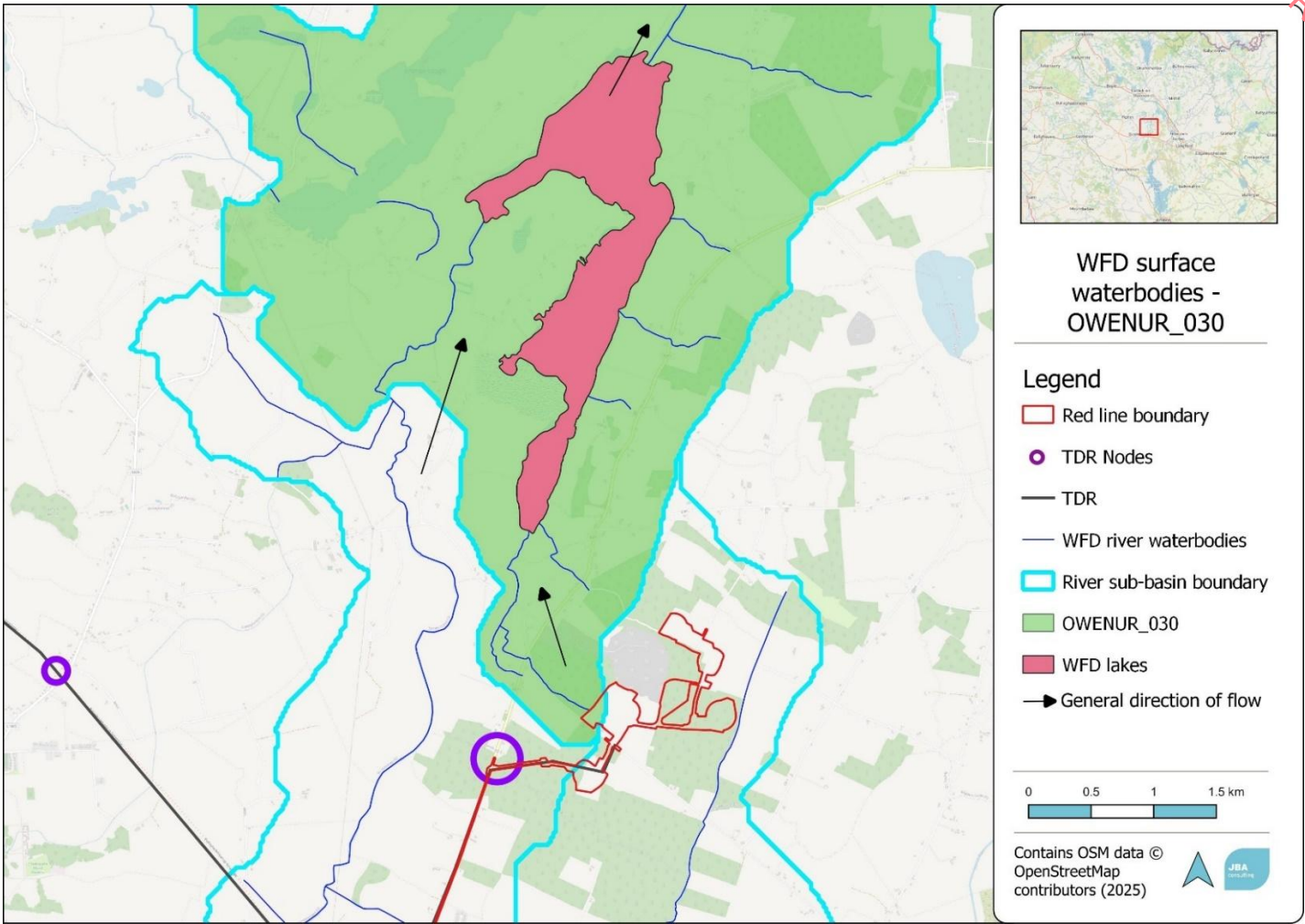


Figure 4-3: OWENUR\_030 river waterbody

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Table 4-8: Scoping of biological quality elements for OWENUR\_030

| Quality element                              | Assessment criteria                                                                                                                                                                             | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic flora (macrophytes and phytobenthos) | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                                                                                                  | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. The upper end of one tributary drain is adjacent to the red line boundary as shown in Figure 4-3, however no works are proposed directly adjacent to this.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for aquatic flora (macrophytes and phytobenthos).</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |
| Benthic invertebrate fauna                   | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Level of diversity</li> <li>- Ratio of disturbance sensitive taxa to insensitive taxa</li> </ul> | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. The upper end of one tributary drain is adjacent to the red line boundary as shown in Figure 4-3, however no works are proposed directly adjacent to this.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for benthic invertebrate fauna.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                   |
| Fish                                         | <ul style="list-style-type: none"> <li>- Species composition</li> <li>- Abundance</li> <li>- Type-specific disturbance-sensitive species present</li> <li>- Age structure</li> </ul>            | No                          | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. The upper end of one tributary drain is adjacent to the red line boundary as shown in Figure 4-3, however no works are proposed directly adjacent to this.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for fish.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|               |                                                                                                                                   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                                                                                                                   |    | <p>Fish migration will not be at risk as a result of the proposed activities. Construction activities will be temporary and will not impact the waterbody directly, so do not pose a direct risk to fish.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Phytoplankton | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Planktonic bloom status</li> </ul> | No | <p>A 50m buffer, with the exception of water crossings and some other minor works, was applied to watercourses shown on the 1:50,000 OSI maps at the design. The upper end of one tributary drain is adjacent to the redline boundary as shown in Figure 4-3, however no works are proposed directly adjacent to this.</p> <p>Construction phase impacts are not anticipated due to the design of the proposed Project which primarily avoids direct impacts with surface waterbodies, and the measures included in the design as part of the SWMP and CEMP. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants discharging from site to the watercourse during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact the habitat available for phytoplankton.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme. No parts of the proposed wind farm layout are adjacent to the watercourse in this sub-basin and the GCR does not directly impact any watercourses or drains as it will pass under or over them in ducting. The operational drainage design along access tracks includes settlement ponds and hydrocarbon interceptors.</p> |

Table 4-9: Scoping of hydromorphological quality elements for OWENUR\_030

| Quality element          | Assessment criteria                                                                                                                 | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrological regime      | <ul style="list-style-type: none"> <li>- Quantity and dynamics of water flow</li> <li>- Connection to groundwater bodies</li> </ul> | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water will not discharge directly to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders. A minor reduction in surface water runoff rates may occur, but this does not represent an impact to the overall hydrological regime given the small volumes of runoff from the site relative to the scale of the waterbody.</p> <p>During construction there will be no discharge of site runoff or water without agreement of the relevant authorities and an appropriate discharge licence, if relevant. As per the SWMP, a temporary surface water attenuation tank / settling pond will be installed during construction to collect surface water from all active working areas. Excess stormwater can be conveyed to this holding pond if and when necessary.</p> |
| River continuity         | <ul style="list-style-type: none"> <li>- Lateral connectivity</li> <li>- Longitudinal connectivity</li> </ul>                       | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, so there will be no resultant impact on river continuity.</p> <p>Operational phase impacts are not anticipated as the development does not require any interventions in the river channel itself or its riparian zone, and so will not affect its connectivity.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Morphological conditions | <ul style="list-style-type: none"> <li>- River depth and width variation</li> </ul>                                                 | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank. Surface water will not discharge directly to the watercourse at any point, but will instead discharge over vegetated surfaces via buffered outfall</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>- Structure and substrate of riverbed</li> <li>- Structure of the riparian zone</li> </ul> | <p>and level spreaders, so there will be no resultant impact on morphological conditions.</p> <p>Operational phase impacts are not anticipated as the development does not require any interventions in the river channel itself or its riparian zone, and so will not affect its morphological conditions.</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table 4-10: Scoping of physico-chemical quality elements for OWENUR\_030

| Quality element     | Assessment criteria                                                                                                                                                                                                                                                     | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General             | <ul style="list-style-type: none"> <li>- Thermal conditions</li> <li>- Oxygenation conditions</li> <li>- Salinity</li> <li>- Acidification status</li> <li>- Nutrient conditions</li> </ul>                                                                             | No                          | <p>Without design measures in place, the construction phase could lead to the mobilisation of sediment in surface water, which could lead to a deterioration in status. This is not expected to occur due to the measures included in the EIAR and SWMP.</p> <p>No direct discharges to the watercourse will occur due to the drainage design as outlined in the SWMP.</p> <p>Operational phase impacts are not anticipated due to the design and nature of the scheme, which includes attenuation and hydrocarbon interceptors.</p>                                                                                                                                                     |
| Specific pollutants | <ul style="list-style-type: none"> <li>- Pollution by all priority substances identified as being discharged into the body of water</li> <li>- Pollution by other substances identified as being discharged in significant quantities into the body of water</li> </ul> | Yes                         | <p>Without mitigation measures in place, the construction phase could lead to the accidental spills of hydrocarbons (such as from construction vehicles) to surface water draining to the watercourse. This is not expected to occur due to the measures included in the EIAR, SWMP, and CEMP.</p> <p>Without design measures in place, pollutants such as hydrocarbons from cars on-site could discharge to WFD waterbodies via the surface drainage infrastructure from the site. Direct discharge will not occur, with surface water passing through a settlement pond/attenuation tank and hydrocarbon interceptor before discharging via level spreaders to vegetated surfaces.</p> |

Table 4-11: Scoping summary assessment for OWENUR\_030 RWB

| Receptor                | Potential risk to receptor? | Note the risk issue(s) for impact assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Further assessment and/or mitigation required? |
|-------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Hydromorphology quality | No                          | <p>No works are proposed in or adjacent to the waterbody or its riverbank, nor will there be direct discharges to the watercourse. No direct morphological impacts are therefore likely.</p> <p>Construction phase impacts are not anticipated due to the inclusion of design measures in the SWMP, CEMP, and EIAR. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Hydromorphology quality.</p> | No further assessment required.                |
| Biological quality      | No                          | No in-channel works or works along banks are proposed, so there will be no direct risk to habitats or species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No further assessment required.                |

|                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |
|--------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                          |    | <p>Fish migration will not be at risk as a result of the proposed activities.</p> <p>Construction activities could result in suspended solids or pollutants entering the watercourse from the site. However, these construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Biological quality.</p> |                                 |
| Physico-Chemical quality | No | There will be no long-term change to general chemical quality elements as a result of the proposed Project. Construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact physico-chemical quality.                                                                                                      | No further assessment required. |

#### 4.2.4 Curraghroe groundwater body (GWB)

Table 4-12 below describes the quality elements of the waterbody and potential impacts as a result of the proposed Project.

Table 4-12: Scoping of physico-chemical quality elements for Curraghroe GWB

| Quality element     | Assessment criteria                              | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantitative status | - Groundwater level regime                       | No                          | No construction will occur within this groundwater body except for a small part of the GCR which will require only very limited excavations for the laying of ducting, so no impacts are likely to occur.                                                                                                                                                                                                                                                                                                                                                            |
| Chemical status     | - Conductivity<br>- Concentrations of pollutants | No                          | <p>The construction phase could lead to the mobilisation of fine sediment in surface water or accidental release of pollutants, which could infiltrate to ground and to the groundwater body. However, mitigation measures outlined in the EIAR, CEMP and SWMP will ensure that these impacts are limited and not significant.</p> <p>The operational drainage design of the proposed Project includes SuDS measures, hydrocarbon interceptors, and attenuation storage areas which will ensure that surface water discharging from the site is of good quality.</p> |

#### 4.2.5 Scramoge South groundwater body (GWB)

Table 4-13 below describes the quality elements of the waterbody and potential impacts as a result of the proposed Project.

Table 4-13: Scoping of physico-chemical quality elements for Scramoge South GWB

| Quality element | Assessment criteria | Potential risk to receptor? | Justification                                                                                                                                   |
|-----------------|---------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantitative    | - Groundwater       | No                          | Trial pit logs carried out as part of site investigations for the proposed Project noted no groundwater in 3 of 7 trial pits, with seepage only |

|                 |                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status          | level regime                                                                                             |    | <p>in the remaining 4. Of the trial pits, TP-T3 was the closest to Scramoge South; no groundwater was encountered in this trial pit.</p> <p>During construction, temporary dewatering of excavations may be required. The area to be dewatered (i.e., turbine foundation for 1 no. turbine, T03) is a small part of the overall site area and forms a small portion of the larger surrounding groundwater body. The lack of groundwater encountered in the site investigations also indicates that dewatering requirements will likely not be significant.</p> <p>Once operational, no impacts on groundwater level are anticipated. Any temporary dewatering which occurred during construction will reverse.</p> |
| Chemical status | <ul style="list-style-type: none"> <li>- Conductivity</li> <li>- Concentrations of pollutants</li> </ul> | No | <p>The construction phase could lead to the mobilisation of sediment in surface water or accidental release of pollutants, which could intercept to ground and to the groundwater body. However, mitigation measures outlined in the EIAR, CEMP and SWMP will ensure that these impacts are limited and not significant.</p> <p>The operational drainage design of the proposed Project includes SuDS measures, hydrocarbon interceptors, and attenuation storage areas which will ensure that surface water discharging from the site is of good quality.</p>                                                                                                                                                     |

#### 4.2.6 Scramoge North groundwater body (GWB)

Table 4-14 below describes the quality elements of the waterbody and potential impacts as a result of the proposed Project.

Table 4-14: Scoping of physico-chemical quality elements for Scramoge North GWB

| Quality element     | Assessment criteria                                                                                      | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantitative status | - Groundwater level regime                                                                               | No                          | <p>Trial pit logs carried out as part of site investigations for the proposed Project noted no groundwater in 3 of 7 trial pits, with seepage only in the remaining 4. Of the trial pits, TP-T1 was the closest to Scramoge North; no groundwater was encountered in this trial pit.</p> <p>During construction, temporary dewatering of excavations may be required. Limited excavations only as part of the GCR will be required in this groundwater body. The lack of groundwater encountered in the site investigations also indicates that dewatering requirements will likely not be significant.</p> <p>Once operational, no impacts on groundwater level are anticipated. Any temporary dewatering which occurred during construction will reverse.</p> |
| Chemical status     | <ul style="list-style-type: none"> <li>- Conductivity</li> <li>- Concentrations of pollutants</li> </ul> | No                          | <p>The construction phase could lead to the mobilisation of sediment in surface water or accidental release of pollutants, which could intercept to ground and to the groundwater body. However, mitigation measures outlined in the EIAR, CEMP and SWMP will ensure that these impacts are limited and not significant.</p> <p>The operational drainage design of the proposed Project includes SuDS measures, hydrocarbon interceptors, and attenuation storage areas which will ensure that surface water discharging from the site is of good quality.</p>                                                                                                                                                                                                  |

#### 4.2.7 Lough Ackrick groundwater body (GWB)

Table 4-15 below describes the quality elements of the waterbody and potential impacts as a result of the proposed Project.

Table 4-15: Scoping of physico-chemical quality elements for Lough Ackrick GWB

| Quality element     | Assessment criteria                              | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantitative status | - Groundwater level regime                       | No                          | <p>Trial pit logs carried out as part of site investigations for the proposed Project noted no groundwater in 3 of 7 trial pits, with seepage only in the remaining 4.</p> <p>During construction, temporary dewatering of excavations may be required. The area to be dewatered (i.e., turbine foundation locations for 5 no. turbines) is a small part of the overall site area and forms a small portion of the larger surrounding groundwater body. The lack of groundwater encountered in the borehole investigations also indicates that dewatering requirements will likely not be significant.</p> <p>Once operational, no impacts on groundwater level are anticipated. Any temporary dewatering which occurred during construction will reverse.</p> |
| Chemical status     | - Conductivity<br>- Concentrations of pollutants | No                          | <p>The construction phase could lead to the mobilisation of sediment in surface water or accidental release of pollutants, which could intercept to ground and to the groundwater body. However, mitigation measures outlined in the EIAR, CEMP and SWMP will ensure that these impacts are limited and not significant.</p> <p>The operational drainage design of the proposed Project includes SuDS measures, hydrocarbon interceptors, and attenuation storage areas which will ensure that surface water discharging from the site is of good quality.</p>                                                                                                                                                                                                 |

#### 4.2.8 Kilglass Dromod groundwater body (GWB)

Table 4-16 below describes the quality elements of the waterbody and potential impacts as a result of the proposed Project.

Table 4-16: Scoping of physico-chemical quality elements for Kilglass Dromod GWB

| Quality element     | Assessment criteria        | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantitative status | - Groundwater level regime | No                          | <p>Trial pit logs carried out as part of site investigations for the proposed Project noted no groundwater in 3 of 7 trial pits, with seepage only in the remaining 4.</p> <p>During construction, temporary dewatering of excavations may be required. Limited excavations only as part of the GCR and onsite substation are required in this groundwater body. The lack of groundwater encountered in the borehole investigations also indicates that dewatering requirements will likely not be significant.</p> <p>Once operational, no impacts on groundwater level are anticipated. Any temporary dewatering which occurred during construction will</p> |

|                 |                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                                                                          |    | reverse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chemical status | <ul style="list-style-type: none"> <li>- Conductivity</li> <li>- Concentrations of pollutants</li> </ul> | No | <p>The construction phase could lead to the mobilisation of sediment in surface water or accidental release of pollutants, which could intercept to ground and to the groundwater body. However, mitigation measures outlined in the EIAR, CEMP and SWMP will ensure that these impacts are limited and not significant.</p> <p>The operational drainage design of the proposed Project includes SuDS measures, hydrocarbon interceptors, and attenuation storage areas which will ensure that surface water discharging from the site is of good quality.</p> |

#### 4.2.9 Kilglass lake waterbody (LWB)

Table 4-17: Scoping of biological quality elements Kilglass LWB

| Quality element            | Assessment criteria                                                                                                   | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic flora              | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                        | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 2km upstream of the lake via the OWENUR_030 RWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 2km upstream.</p>                                                                            |
| Benthic invertebrate fauna | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                        | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 2km upstream of the lake via the OWENUR_030 RWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 2km upstream.</p>                                                            |
| Fish                       | <ul style="list-style-type: none"> <li>- Species composition</li> <li>- Abundance</li> <li>- Age structure</li> </ul> | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 2km upstream of the lake via the OWENUR_030 RWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Fish migration will not be at risk as a result of the proposed activities. Construction activities will be temporary and will not impact the waterbody directly, so do not pose a direct risk to fish.</p> |

|               |                                                                                                                   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|-------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                                                                                                   |    | Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 2km upstream.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Phytoplankton | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Biomass</li> </ul> | No | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 2km upstream of the lake via the OWENUR_030 RWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 2km upstream.</p> |

Table 4-18: Scoping of hydromorphological quality elements for Kilglass LWB

| Quality element          | Assessment criteria                                                                                                                                                     | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrological regime      | <ul style="list-style-type: none"> <li>- Quantity and dynamics of water flow</li> <li>- Residence time</li> <li>- Connection to the groundwater body</li> </ul>         | No                          | No works are proposed in or adjacent to the waterbody or its lakeshore. Surface water will not discharge directly to the waterbody at any point or the river waterbody feeding it, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders. There will therefore be no significant volumetric change to total lake inflows. Also, no significant excavation works are proposed in the underlying groundwater body. |
| Morphological conditions | <ul style="list-style-type: none"> <li>- Lake depth variation</li> <li>- Quantity, structure and substrate of lakebed</li> <li>- Structure of the lake shore</li> </ul> | No                          | No works are proposed in or adjacent to the waterbody or its lakeshore, so there will be no resultant impact on morphological conditions.                                                                                                                                                                                                                                                                                                              |

Table 4-19 : Scoping of physico-chemical quality elements for Kilglass LWB

| Quality element | Assessment criteria                                                                                                                                                                                                 | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General         | <ul style="list-style-type: none"> <li>- Transparency</li> <li>- Thermal conditions</li> <li>- Oxygenation conditions</li> <li>- Salinity</li> <li>- Acidification status</li> <li>- Nutrient conditions</li> </ul> | No                          | <p>Without design measures in place, the construction phase could lead to the mobilisation of fine sediment in surface water in the river feeding the lake waterbody, which could lead to a deterioration in status. This is not expected to occur due to the measures included in the EIAR and SWMP.</p> <p>No direct discharges to the watercourse upstream or the lake will occur due to the drainage design as outlined in the SWMP.</p> <p>Operational phase impacts are not anticipated due to the design and nature of the scheme, which includes attenuation and hydrocarbon interceptors.</p> |

|                     |                                                                                                                                                                                                                                                                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific pollutants | <ul style="list-style-type: none"> <li>- Pollution by all priority substances identified as being discharged into the body of water</li> <li>- Pollution by other substances identified as being discharged in significant quantities into the body of water</li> </ul> | No | <p>Without mitigation measures in place, the construction phase could lead to the accidental spills of hydrocarbons (such as from construction vehicles) to surface water draining to the watercourse feeding the lake. This is not expected to occur due to the measures included in the EIAR, SWMP, and CEMP.</p> <p>Without design measures in place, pollutants such as hydrocarbons from cars on-site could discharge to WFD waterbodies via the surface drainage infrastructure from the site. Direct discharge will not occur, with surface water passing through a settlement pond/attenuation tank and hydrocarbon interceptor before discharging via level spreaders to vegetated surfaces.</p> |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table 4-8: Scoping summary assessment for Kilglass LWB

| Receptor                 | Potential risk to receptor? | Note the risk issue(s) for impact assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Further assessment and/or mitigation required? |
|--------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Hydromorphology quality  | No                          | <p>No works are proposed in or adjacent to the waterbody or its lakeshore, nor will there be direct discharges to the watercourse feeding it. No direct morphological impacts are therefore likely.</p> <p>Construction phase impacts are not anticipated due to the inclusion of design measures in the SWMP, CEMP, and EIAR. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Hydromorphology quality.</p> | No further assessment required.                |
| Biological quality       | No                          | <p>No in-channel works or works along the shore are proposed, so there will be no direct risk to habitats or species.</p> <p>Fish migration will not be at risk as a result of the proposed activities.</p> <p>Construction activities could result in suspended solids or pollutants entering the waterbody from the site. However, these construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Biological quality.</p>          | No further assessment required.                |
| Physico-Chemical quality | No                          | <p>There will be no long-term change to general chemical quality elements as a result of the proposed Project. Construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the lake, and/or remove the potential source of contaminants that would impact physico-chemical quality</p>                                                                                                                                                                                                                                  | No further assessment required.                |

#### 4.2.10 Grange North lake waterbody (LWB)

Table 4-20: Scoping of biological quality elements Grange North LWB

| Quality element            | Assessment criteria                                                                                                   | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic flora              | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                        | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 6.8km upstream of the lake via the OWENUR_030 RWB and Kilglass LWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 6.8km upstream.</p>                                                                                                                                                                                                               |
| Benthic invertebrate fauna | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> </ul>                        | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 6.8km upstream of the lake via the OWENUR_030 RWB and Kilglass LWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 6.8km upstream.</p>                                                                                                                                                                                                               |
| Fish                       | <ul style="list-style-type: none"> <li>- Species composition</li> <li>- Abundance</li> <li>- Age structure</li> </ul> | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 6.8km upstream of the lake via the OWENUR_030 RWB and Kilglass LWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Fish migration will not be at risk as a result of the proposed activities. Construction activities will be temporary and will not impact the waterbody directly, so do not pose a direct risk to fish.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 6.8km upstream.</p> |
| Phytoplankton              | <ul style="list-style-type: none"> <li>- Taxonomic composition</li> <li>- Abundance</li> <li>- Biomass</li> </ul>     | No                          | <p>No works are taking place adjacent to or in close proximity to the lake waterbody. The closest works are over 6.8km upstream of the lake via the OWENUR_030 RWB and Kilglass LWB.</p> <p>Construction phase impacts on the preceding river waterbody are not expected as outlined in Figure 4.3. Therefore, impacts downstream in the lake waterbody are not anticipated either, due to this and due to the measures included in the design as part of the SWMP and CEMP.</p> <p>Operational phase impacts are not anticipated due to the design of the scheme, being located over 1km from the lake, and over 6.8km upstream.</p>                                                                                                                                                                                                               |

|  |  |  |                                |
|--|--|--|--------------------------------|
|  |  |  | lake, and over 6.8km upstream. |
|--|--|--|--------------------------------|

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Table 4-21: Scoping of hydromorphological quality elements for Grange North LWB

| Quality element          | Assessment criteria                                                                                                                                                     | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrological regime      | <ul style="list-style-type: none"> <li>- Quantity and dynamics of water flow</li> <li>- Residence time</li> <li>- Connection to the groundwater body</li> </ul>         | No                          | No works are proposed in or adjacent to the waterbody or its lakeshore. Surface water will not discharge directly to the waterbody at any point or the river waterbody feeding it, but will instead discharge over vegetated surfaces via buffered outfall and level spreaders. There will therefore be no significant volumetric change to total lake inflows. Also, no significant excavation works are proposed in the underlying groundwater body. |
| Morphological conditions | <ul style="list-style-type: none"> <li>- Lake depth variation</li> <li>- Quantity, structure and substrate of lakebed</li> <li>- Structure of the lake shore</li> </ul> | No                          | No works are proposed in or adjacent to the waterbody or its lakeshore, so there will be no resultant impact on morphological conditions.                                                                                                                                                                                                                                                                                                              |

Table 4-22 : Scoping of physico-chemical quality elements for Grange North LWB

| Quality element     | Assessment criteria                                                                                                                                                                                                                                       | Potential risk to receptor? | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General             | <ul style="list-style-type: none"> <li>- Transparency</li> <li>- Thermal conditions</li> <li>- Oxygenation conditions</li> <li>- Salinity</li> <li>- Acidification status</li> <li>- Nutrient conditions</li> </ul>                                       | No                          | <p>Without design measures in place, the construction phase could lead to the mobilisation of sediment in surface water in the river feeding the lake waterbody, which could lead to a deterioration in status. This is not expected to occur due to the measures included in the EIAR and SWMP.</p> <p>No direct discharges to the watercourse upstream or the lake will occur due to the drainage design as outlined in the SWMP.</p> <p>Operational phase impacts are not anticipated due to the design and nature of the scheme, which includes attenuation and hydrocarbon interceptors.</p>                                                                        |
| Specific pollutants | <ul style="list-style-type: none"> <li>- Pollution by all priority substances identified as being discharged into the body of water</li> <li>- Pollution by other substances identified as being discharged in significant quantities into the</li> </ul> | No                          | <p>Without mitigation measures in place, the construction phase could lead to the accidental spills of hydrocarbons (such as from construction vehicles) to surface water draining to the watercourse feeding the lake. This is not expected to occur due to the measures included in the EIAR, SWMP, and CEMP.</p> <p>Without design measures in place, pollutants such as hydrocarbons from cars on-site could discharge to WFD waterbodies via the surface drainage infrastructure from the site. Direct discharge will not occur, with surface water passing through a settlement pond/attenuation tank and hydrocarbon interceptor before discharging via level</p> |

|  |               |  |                                  |
|--|---------------|--|----------------------------------|
|  | body of water |  | spreaders to vegetated surfaces. |
|--|---------------|--|----------------------------------|

Table 4-8: Scoping summary assessment for Grange North LWB

| Receptor                 | Potential risk to receptor? | Note the risk issue(s) for impact assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Further assessment and/or mitigation required? |
|--------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Hydromorphology quality  | No                          | <p>No works are proposed in or adjacent to the waterbody or its lakeshore, nor will there be direct discharges to the watercourse feeding it. No direct morphological impacts are therefore likely.</p> <p>Construction phase impacts are not anticipated due to the inclusion of design measures in the SWMP, CEMP, and EIAR. These measures will help to capture, control and reduce surface water run-off, suspended solids and pollutants during construction. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Hydromorphology quality.</p> | No further assessment required.                |
| Biological quality       | No                          | <p>No in-channel works or works along the shore are proposed, so there will be no direct risk to habitats or species.</p> <p>Fish migration will not be at risk as a result of the proposed activities.</p> <p>Construction activities could result in suspended solids or pollutants entering the waterbody from the site. However, these construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the river, and/or remove the potential source of contaminants that would impact Biological quality.</p>          | No further assessment required.                |
| Physico-Chemical quality | No                          | <p>There will be no long-term change to general chemical quality elements as a result of the proposed Project. Construction phase impacts are not anticipated due to the inclusion of design measures in the CEMP, SWMP, and EIAR. The design measures will effectively break any pathway from the site to the lake, and/or remove the potential source of contaminants that would impact physico-chemical quality</p>                                                                                                                                                                                                                                  | No further assessment required.                |

### 4.3 Scoping Summary

Table 4-23 below summarises the scoping assessment for all screened in WFD waterbodies.

As all waterbodies are scoped out, this assessment does not need to continue to the next stage.

Table 4-23: Scoping assessment summary for all WFD waterbodies

| Waterbody                 | Scoping assessment                                                                                                                                                                  | Scoping result       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| FEORISH (TARMONBARRY)_020 | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| MOUNTAIN (ROSCOMMON)_010  | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| OWENUR_030                | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Curraghroe                | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Scramoge South            | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Scramoge North            | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Lough Ackrick             | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Kilglass Dromod           | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Kilglass                  | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |
| Grange North              | The design of the proposed Project, and the mitigation measures included in the EIAR, CEMP, and SWMP, are sufficient to ensure that no impact on this waterbody is likely to occur. | Waterbody scoped out |

## 5 Conclusions

Following the completion of the WFD impact assessment, it is concluded that the proposed Project will not impact on the quality elements of the screened in WFD waterbodies when mitigation measures described in EIAR Chapter 8: Water, Hydrology & Hydrogeology of the EIAR are applied.

The Screening Assessment found ten WFD waterbodies with potential pathways from the proposed Project. These WFD waterbodies were carried forward to the Scoping stage.

The Scoping Assessment found that the proposed Project activities could pose a risk to the status or quality elements of all five of those WFD waterbodies, either during construction operation or decommissioning with no mitigation measures in place.

The WFD Impact Assessment outlined the mitigation measures which were included for the proposed Project in the EIAR, CEMP and SWMP. With these mitigation measures in place, it was concluded that there will be no deterioration in status class, nor impacts to any WFD waterbodies as a result of the proposed Project, nor will the proposed Project activities jeopardise the attainment of good surface water status for any WFD waterbody. The proposed Project therefore complies with the objectives of the WFD, and does not require an exemption under Article 4(7).



Offices at  
Dublin  
Limerick

Registered Office  
24 Grove Island  
Corbally  
Limerick  
Ireland

t: +353 (0) 61 345463  
e: [info@jbaconsulting.ie](mailto:info@jbaconsulting.ie)

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