

**Tullaghan Access to Sea Project**

**Screening Statement for Appropriate Assessment**

**Produced by**

**AQUAFACT International Services Ltd**

**On behalf of**

**Leitrim County Council**

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# Introduction

This *Screening Statement for Appropriate Assessment* (*Screening Statement for AA*) has been prepared by AQUAFACT International Services Ltd. (AQUAFACT) to accompany a Part 8 Planning Application to Leitrim County Council for the Tullaghan Access to Sea Project. The objective of the Tullaghan Access to Sea Project (the ’Project’) is to provide improved public access to the coastline from the Tullashan Village and suitable carparking.

## Purpose of this report

Specifically, this report has been prepared to address Article 6(3) obligations under the European Community (EC) Directive 92/43/EEC on the conservation of natural habitats and of wild flora and fauna (commonly known the Habitats Directive), which is transposed into Irish legislation under the European Communities (Birds and Natural Habitats) Regulations 2011 (as amended).

## Overview of the Proposed Development

The Project comprises of the following

1. The widening and surfacing of the existing access road to the Wastewater Treatment Plant site to include the provision of a 1.8m wide footpath with public lighting and the restoration of the existing piers and boundary wall at the entrance area off public road L2059.
2. Provision of carparking at the Treatment Plant site, including hard and soft landscaping of the site and the provision of public lighting.
3. Construction of a 4m wide road from the proposed carpark to the coastline for pedestrian and emergency vehicle access with a Turning circle and the provision of a Seating and Biodiversity Area.

There is current no dedicated public access from the public road to the Coastline. There is also no dedicated car parking available to visitors in the vicinity. Leitrim County Council, as the Project promoter, proposes to undertake the works. The purpose of these works is to improve access to the coastline for locals and visitors to the area. The proposed works will offer benefits to locals and tourists visiting the area.

The benefits resulting from the completion of the project would include.

* Dedicated public access route from Tullaghan Village to the coastline and parking facilities to serve the public
* Creating spaces for outdoor benches and seating for the enjoyment of locals and visitors.

**Map

Description automatically generated**

**Figure 1‑1: Location of the Tullaghan Access to Sea Project**

## Requirement for Appropriate Assessment

Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (commonly known as the Habitats Directive) is European Community legislation regarding nature conservation established to ensure biodiversity is conserved through the conservation of natural habitats and wild fauna and flora in Europe.

The Habitats Directive was originally transposed into Irish law by the *European Communities (Natural Habitats) Regulations, 1997* (S.I. No. 94 of 1997). The 1997 Regulations were subsequently revoked and replaced by the *European Communities (Birds and Natural Habitats) Regulations 2011*, as amended (herein referred to as the 2011 Birds and Natural Habitats Regulations).

Under Regulation 42 of the 2011 Birds and Natural Habitats Regulations all competent authorities are required to conduct a screening for Appropriate Assessment (AA) and, if necessary, an AA on any plan or project on the foreshore for which it receives an application for consent, or which the authority itself wishes to undertake or adopt.  This obligation derives from Article 6(3) and 6(4) of the Habitats Directive.

The AA provision of the Habitats Directive is also transposed in Ireland by Part XAB of the Planning and Development Act 2000 (as amended) in respect of land use plans and proposed developments requiring development consent. [The Planning and Development Act, 2000](http://www.irishstatutebook.ie/2000/en/act/pub/0030/index.html) (as amended) is the basis for the Irish planning code, setting out the detail of regional planning guidelines, development plans and local area plans as well as the basic framework of the development management and consent system. Specifically, Section 181B of the act provides the statutory basis for protecting our natural and architectural heritage and the carrying out of Environmental Impact Assessment (EIA) and AA.

A network of sites of conservation importance hosting habitats and species as needing to be either maintained at or returned to favourable conservation status have been identified by each Member State. These sites are known as European sites within the Natura 2000 network.

European sites in Ireland that form part of the Natura 2000 network of protected sites comprise SACs designated due to their significant ecological importance for habitats and species protected under Annex I and Annex II respectively of the Habitats Directive, and SPAs designated for the protection of populations and habitats of bird species protected under the EU Birds Directive (Council Directive 2009/409/EEC). Features for which SACs and SPAs are designated are called Qualifying Interests (QIs) and Special Conservation Interests (SCIs) respectively.

Following the requirements of Article 6(3) of the Habitats Directive, under Regulation 42 of the 2011Birds and Natural Habitats Regulations, if a plan or project is not connected with, or necessary for the management of a European site and is likely to have a significant effect on the feature for which the site is designated either individually or in combination with other plans or projects, an AA is required to assess whether a plan or project will have any adverse effect on the integrity of a European site(s) in view of the Conservation Objectives set for the designated features.

The **first stage of the AA process is Screening**; where the risk of a significant effect to a designated feature from an impact mechanism can be **excluded**on the basis of objective evidence, the designated feature and impact mechanism combination is **screened out** of further assessment. The assessments undertaken as part of the first stage of AA process are documented in a Screening Statement for AA.

Where the Screening for AA identifies that a significant effect to a designated conservation feature from an impact mechanism is likely to occur, the designated feature and the impact mechanism combination is brought forward for a detailed consideration of the potential for adverse effects. This detailed assessment of the potential for adverse effects is the second stage of the AA process. The assessments undertaken as part of the **second stage of the AA process are documented in a Natura Impact Statement** (NIS).

This *Screening Statement for AA* documents the assessments undertaken as part of the Screening for the Tullaghan Access to Sea Project and has been prepared to address Article 6(3) obligations under the Habitats Directive and to inform the AA determination of the competent authorities.

Specifically, this *Screening Statement for AA* focuses on the potential effects of the proposed development to European sites.

## Structure of this Report

The content of this report is as follows:

* **Section 2**: Screening for Appropriate Assessment
  + **Section 2.1**Management of the European site(s)
  + **Section 2.2**Description of the Proposed Development
  + **Section 2.3**Characteristics of the European site(s)
  + **Section 2.4**Screening Outcome

## Guidance

This report has been prepared in accordance with the following guidance:

* EC (2018) Managing Natura 2000 sites. The provisions of Article 6 of the Habitats Directive

92/43/EEC Commission Notice (2018);

* DEHLG (2009) Appropriate Assessment of Plans and Projects in Ireland Guidance for Planning Authorities (Revised 2010);
* EC (2001) Managing Natura 2000 Sites: The provisions of Article 6 of the Habitats Directive

92/43/EEC;

* Department of Arts, Heritage and the Gaeltacht – National Parks and Wildlife Service DAHG ‑ NPWS (2012) Marine Natura Impact Statements in Ireland Special Areas of Conservation, A Working Document.

This assessment includes a desk-based review of available records of protected species and habitats including the following sources:

* Conservation Status Assessment Reports, Backing Documents and Maps prepared to inform national reporting[[1]](#footnote-2) required under Article 17 of the Habitats Directive;
* Site Synopsis, Conservation Objective Reports and Natura 2000 Forms available from NPWS;
* Published and unpublished NPWS reports on protected habitats and species including Irish Wildlife Manual reports, Species Action Plans, and Conservation Management Plans; and
* Existing relevant mapping and databases *e.g.* waterbody status, species and habitat distribution *etc*.(sourced from the Environmental Protection Agency - <http://gis.epa.ie/>, the National Biodiversity Data Centre - <http://maps.biodiversityireland.ie> and the NPWS -<http://www.npws.ie/mapsanddata/>.

# Screening for Appropriate Assessment

## Management of European Site(s)

The obligation to undertake AA under the Part XAB of the Planning and Development Act 2000 and the 2011 Birds and Natural Habitats Regulations derives from Article 6(3) and 6(4) of the Habitats Directive. Regulation 42 (1) of the 2011 Regulations requires that:

*A screening for Appropriate Assessment of a plan or project for which an application for consent is received, or which a public authority wishes to undertake or adopt, and which* ***is not directly connected with or necessary to the management of the site as a European Site****, shall be carried out by the public authority to assess, in view of best scientific knowledge and in view of the conservation objectives of the site, if that plan or project, individually or in combination with other plans or projects is likely to have a significant effect on the European site*.

The proposed project is not associated with the ‘management’ of European sites within the Natura 2000 Network having regard to Article 6 of the Habitats Directive, and as such it is appropriate that the proposed project is subject to a screening for AA. This screening assessment investigates, in view of best scientific knowledge, whether the proposed project, individually or in combination with other plans and projects, would be likely to have a significant effect on European sites.

As outlined in **Section 1.2**, this *Screening Statement for AA*, which has been prepared to address Article 6(3) obligations of the Habitats Directive and associated national regulations, focuses on the potential effect to European sites associated with the proposed project. **Section2.2** below describes the proposed project while **Section 2.3**considers the likelihood of significant effects of the project on European sites both in isolation and in combination with other projects.

## Description of Project

The objective of the Project is to provide access and parking facilities to enhance the accessibility to the natural amenity of Tullaghan coastline for the public. The project will include;

1. The widening and surfacing of the existing access road to the Wastewater Treatment Plant site to include the provision of a 1.8m wide footpath with public lighting and the restoration of the existing piers and boundary wall at the entrance area off public road L2059.
2. Provision of carparking at the Treatment Plant site, including hard and soft landscaping of the site and the provision of public lighting.
3. Construction of a 4m wide road from the proposed carpark to the coastline for pedestrian and emergency vehicle access with a Turning circle and the provision of a Seating and Biodiversity Area.

### Construction

Construction shall be entirely land based and works will include:

* + Resurfacing of the existing roadway. This will involve overlaying of the existing surface with no excavations.
  + Construction of carpark with 15 spaces and associated drainage and petrol interceptor.
  + Construction of a new shared surface 4m wide and associated drainage.
  + Installation of stock proof fencing, planting of hedges and a biodiversity area.
* To construct the new carpark and shared 4m wide surface the area will be stripped of the topsoil and the material will side cast and sealed from rain with the excavator, for reuse.
* A geotextile will be rolled out and 6F2 capping will be delivered to the works area using a wheeled dumper.
* The tracked excavator will place and level the capping and it will be compacted using a suitable roller.
* The area will be constructed working from the existing WWTP towards the shore so the site vehicles may run travel on the newly constructed surface, which will reduce damage to the ground causing less run off.
* No pumping will be carried out to an open or dry watercourse, and if pumping is required suitable sediment control procedures will be put in place and a discharge location must be agreed.
* All plant and equipment will work on the site as outlined and will not encroach on the shoreline.
* Tracked excavators and dump trucks will be used.
* All plant and equipment will be re-fuelled in the storage area adjacent the existing WwTP.
* Works will be undertaken in accordance with HSE & Government Guidelines with regard to physical distancing and other COVID 19 restrictions.
* A site compound will be established at the existing WWTP property for the duration of the works. This compound will be located at least 200m away from the shoreline.
* The compound shall be secured, and all plant and equipment shall be stored in this defined area.
* Fuels, oils, greases and hydraulic fluids must be stored in suitable bunds or bunded trailers/bowsers. Bunds shall be a minimum of 110% capacity of the largest container which is being stored.
* Bunds will be designed in accordance with Environmental Protection Agency guidance in relation to the storage of potentially polluting liquids (“IPC Guidance Note on Storage and Transfer of Materials for Scheduled Activities”, 2004);
* Potential impacts caused by spillages etc. during the construction phase will be reduced by keeping spill kits and other appropriate equipment on-site.
* No refuelling of any plant or equipment to take place within 50m of any watercourse or the shoreline.
* All construction works will be confined to daylight hours and there will be no artificial lighting used within the construction area.

### Operation

Periodic inspection and minor maintenance of a carpark, access roadway surfaces, surface water network and petrol interceptor. Periodic maintenance of landscaped areas and pruning of boundary hedging.

### Decommissioning

Decommissioning is not expected to happen.

**![Diagram, engineering drawing

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGMgdHdlZWR5AAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDgAAJKSAAIAAAADNDgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 2-1: Project layout**

## Characteristics of European Site(s)

### Source-Pathway-Receptor and Impact Assessment

#### Overview

A key factor in the consideration as to whether a QI or a SCI (collectively referred to herein as conservation features) is likely to be affected by a proposed project is the existence of connectivity (or interaction/ or impact pathway) between the feature and the impact mechanisms associated with the project. National guidance (DEHLG 2009) outlines that screening for AA should be carried out for any European Site within the likely zone of impact (ZoI) of a plan or project.

For projects, the guidance outlines that the must be evaluated on a case-by‑case basis with reference to the nature, size and location of the project, the sensitivities of the ecological receptors, and the potential for in combination effects. **Section 2.3.1.2** and **Section 2.3.1.3** considers the potential effects due to the proposed project, while **Section 2.3.1.3**considers potential in combination effects with other plans and projects.

#### Methodology

As outlined in **Section 1.3**above, this *Screening Statement for AA* has been prepared to address Article 6(3) obligations under the Habitats Directive and focuses on the potential effects of the project to European sites.

In order to establish the ZoI of the proposed project, the assessment of connectivity between project impact mechanisms (or source) and a conservation feature (*i.e.* QIs of SACs and SCIs of SPAs) considers the location of the project relative to habitats and non-mobile species, species foraging distances and migration routes, and the proximity of the project to foraging and breeding areas, and potential changes in species behaviour, effects on prey species resulting in alteration in interactions and associated impacts.

To inform the assessment, nationally available data on protected habitats and species was mapped using a Geographic Information System (GIS) and interrogated to identify for source-pathway-receptor connectivity. The source (potential project impact mechanisms), pathways (hydrological, physical, or ecological connectivity) and receptors (conservation features) were identified using GIS software, and through the examination of aerial photography and a review of ecological surveys undertaken in the area. Any conservation feature identified to have a viable source pathway-receptor link to the proposed project were then examined further to determine the potential for significant effects.

The assessment of project impact sources (or mechanisms) considers all relevant aspects of the proposed project that have the potential to directly or indirectly effect conservation features.

Adopting a precautionary principle, the European sites within 15km radius of the proposed project (as measured using the shortest linear distance) were considered in this screening for AA (see **Figure 2‑2** and **Figure 2‑3**), the sites are:

* Lough Melvin SAC (Site code: 000428) (520m northwest of project area)
* Bunduff Lough and Machair/Trawalua/Mullaghmore SAC (Site code: 000625) (2km east)
* Arroo Mountain SAC (Site code: 001403) (6km southeast)
* Ben Bulben, Gleniff and Glenade Complex SAC (Site code: 000623) (6.7km south)
* Dunmuckrum Turloughs SAC (Site code: 002303) (7.6m northeast)
* Streedagh Point Dunes SAC (Site code: 001680) (11.5km southwest)
* Glenade Lough SAC (Site code: 001919) (11.6km south)
* St. John's Point SAC (Site code: 000191) (12.6km north)
* Durnesh Lough SAC (Site code: 0001380) (12.9km northeast)
* Lough Gill SAC (Site code: 001976) (13.2km southwest)
* Donegal Bay SPA (Site code: 004151) (500m north)
* Sligo/Leitrim Uplands SPA (Site code: 004187) (6.7km south)
* Durnesh Lough SPA (Site code: 004145) (13.9km northeast)

A detailed description of the Project is provided in **Section 2.2** above; given the nature of the proposed activities associated with the project, the potential impact mechanisms (or sources of impact) are:

1. construction noise disturbance associated with construction activities (*i.e.,* Laying of 150mm layer of 4” crusher run, installation of kerbing, repositioning of wall and path along the public road, installation of Asphaltic concrete surface on access roadway, car parkland path).
2. discharges released during construction periods; release of dust, sediment, chemicals and/ or waste material.

The conservation features (*i.e.,* QIS and SCIs) of the above SACs and SPAs are listed in **Table 2.1**and**Table 2.2**respectively alongside conservation objectives set for the conservation features. In **Table 2.1**and **Table 2.2**the QIs and SCIs are assigned to broad ecological groups. Brief description of the SACs and SPAs are provided below.

The assessment of potential effect of the project on conservation features of SACs and SPAs are presented in **Section2.3.1.3** and **Section2.3.1.4** while the assessment of in‑combination effects is outlined in **Section 2.3.2.**

**Lough Melvin SAC (Site code: 000428)**

Lough Melvin is situated in the extreme north-west of Co. Leitrim, about 4 km south of Bundoran. The area is underlain by sedimentary calp-limestone, shale, and sandstone. Lough Melvin is an oligo-mesotrophic lake and is approximately 13 km long by 3 km wide. The mean depth of the lake is 8.5 m, the maximum depth being 45 m. A number of inflowing and outflowing streams and rivers are included in the site, for instance, the Drowes River links the lake to Donegal Bay. Several large islands occur on the lake. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [3130] Oligotrophic to Mesotrophic Standing Waters, [6410] Molinia Meadows, [1106] Atlantic Salmon (*Salmo salar*), and [1355] Otter (*Lutra lutra*) (NPWS, 2016).

**Bunduff Lough and Machair/Trawalua/Mullaghmore SAC (Site code: 000625)**

This site is situated on the south side of Donegal Bay, 5 km south-west of Bundoran, and it falls in the counties of Sligo and Leitrim. The part of the site west of Mullaghmore Head is very exposed to the prevailing wind and swells from the Atlantic, whereas the head itself affords moderate shelter to the eastern part of the site. The underlying geology is of sedimentary rocks including limestone, shale and sandstone. Windblown sand is common in places, covering much of the underlying rocks and shingle .The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [1140] Tidal Mudflats and Sandflats, [1160] Large Shallow Inlets and Bays, [1170] Reefs, [2120] Marram Dunes (White Dunes), [2130] Fixed Dunes (Grey Dunes)\*, [2190] Humid Dune Slacks, [21A0] Machairs\*, [5130] Juniper Scrub, [6210] Orchid-rich Calcareous Grassland\*, [7230] Alkaline Fens, [1065] Marsh Fritillary (*Euphydryas aurinia*), and [1395] Petalwort (*Petalophyllum ralfsii*) (NPWS, 2018).

**Arroo Mountain SAC (Site code: 001403)**

Arroo Mountain is a large mountain complex which is comprised of blanket bog, heathland, upland grassland, calcareous flushes, wooded ravines, limestone gorges and steep limestone cliffs which have developed on top of an undulating limestone plateau. It is the most north-easterly part of the Ben Bulben range of mountains and is located 3 km south-west of Kinlough in Co. Leitrim. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [4010] Wet Heath, [4030] Dry Heath, [4060] Alpine and Subalpine Heaths, [7130] Blanket Bogs (Active)\*, [7220] Petrifying Springs\*, [8120] Calcareous Scree, and [8210] Calcareous Rocky Slopes (NPWS, 2016).

**Ben Bulben, Gleniff and Glenade Complex SAC (Site code: 000623)**

This large SAC site is located in the uplands around Ben Bulben, King's Mountain, Bandikini, Truskmore and Tievebaun (or Eagle's Rock), straddling the Sligo/Leitrim County boundary. These uplands are formed of Carboniferous limestone, capped in places by shales. They stand in a high plateau, 300-450 m above the surrounding countryside, and the edges form lofty cliffs ranging from 15 to 300 m in height. Below these cliffs, block scree usually occurs on slopes of 40-50 degrees. The mesa type of landform (*i.e.* flat-topped hill) found at this site, which has arisen from the long exposure of the upland areas to erosion, is of great interest geomorphologically. So too are the upper Viséan reefs exposed on the cliffs and on some of the summits. In addition, this region is also the type locality for the Ben Bulben shale, the Glencar limestone, and the Dirty limestone.

This site is important botanically mainly because of the profusion of alpine plants which occur on the cliffs throughout the area, and particularly the cliffs of the Greif valley. The site is one of the best in the country for alpines, in terms of species richness, abundance and indeed, some of the alpine plants found here occur nowhere else in Ireland. The numerous waterfalls and Glencar Lake are also of great botanical interest.

The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [3260] Floating River Vegetation, [4010] Wet Heath, [4030] Dry Heath, [4060] Alpine and Subalpine Heaths, [5130] Juniper Scrub, [6210] Orchid-rich Calcareous Grassland\*, [6230] Species-rich Nardus Grassland\*, [6430] *Hydrophiles* Tall Herb Communities, [7220] Petrifying Springs\*, [7140] Transition Mires, [7230] Alkaline Fens, [8110] Siliceous Scree, [8120] Calcareous Scree and [8210] Calcareous Rocky Slopes (NPWS, 2016).

**DeMocker Turloughs SAC (Site code: 002303)**

This site is located about 2 km south-west of Ballyshannon in Co. Donegal. It consists of a series of low-lying winter-flooded depressions set in an undulating landscape of limestone hills. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [3180] Turloughs\* (NPWS, 2014).

**Streedagh Point Dunes SAC (Site code: 001680)**

Streedagh Point Dunes SAC is a sand dune and estuary system, and lies approximately 4 km west of Grange, a small village about 16 km north of Sligo town. The site consists of a tombolo formation, with a shingle spit overlain by sand dunes joining Conors Island to Streedagh Point. The landward side of the site comprises an area of sand flats, the estuary of the River Grange. The underlying bedrock is of stratified sedimentary rocks - argillaceous and oolitic limestones, conglomerates and chert; some strata are rich in fossils. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: 1140] Tidal Mudflats and Sandflats, [1220] Perennial Vegetation of Stony Banks, [1330] Atlantic Salt Meadows, [1410] Mediterranean Salt Meadows, [2120] Marram Dunes (White Dunes), [2130] Fixed Dunes (Grey Dunes) \*, and [1014] Narrow-mouthed Whorl Snail (*Vertigo angustior*) (NPWS, 2013).

**Glenade Lough SAC (Site code: 001919)**

Glenade Lough is situated approximately 9 km north-west of Manorhamilton in Co. Leitrim. It is a relatively small lake situated on the upper reaches of the Bonet River and in a valley between the Arroo and Benbulben Mountain ranges. The lough is underlain by Carboniferous limestone and shales. This confers a calcareous nature to the lake and the marginal vegetation. It is a naturally eutrophic lake, but although eutrophic, the system shows mesotrophic features - the water is clear, well aerated, and relatively nutrient poor and the shoreline is stony or sandy. The lake has a maximum depth of 7.25 m. Some areas of surrounding wet grassland, marshes and fens are also included in the site.

The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [3150] Natural Eutrophic Lakes, [1092] White-clawed Crayfish (*Austropotamobius pallipe*s), and [1833] Slender Naiad (*Najas flexilis*) (NPWS, 2013).

**St. John's Point SAC (Site code: 000191)**

St. John’s Point is a 10 km-long, narrow peninsula running south-west from Dunkineely into Donegal Bay. The site covers the most southerly 4 km of the peninsula and includes some of the surrounding marine waters. The underlying geology is limestone. Tournaisian Basal Clastics form the majority of the underlying rocks, while Calp limestone of the Visean era outcrop at the south-western end of the site. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [1160] Large Shallow Inlets and Bays, [1170] Reefs, [1230] Vegetated Sea Cliffs, [6210] Orchid-rich Calcareous Grassland\*, [6410] Molinia Meadows, [7230] Alkaline Fens, [8240] Limestone Pavement\*, [8330] Sea Caves, and [1065] Marsh Fritillary (*Euphydryas aurinia*) (NPWS, 2015).

**Durnesh Lough SAC (Site code: 0001380)**

This site is situated on the southern side of Donegal Bay, and is about 10 km north of Ballyshannon. The underlying geology of the area is limestone, but this is covered by a thick layer of clay drift deposits in the form of drumlins. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [1150] Coastal Lagoons\* and [6410] *Molinia* Meadows (NPWS, 2013).

**Lough Gill SAC (Site code: 001976)**

This site includes Lough Gill, Doon Lough to the north-east, the Bonet River (as far as, but not including, Glenade Lough), and a stretch of the Owenmore River near Manorhamilton in Co. Leitrim. Lough Gill itself, 2 km east of Sligo town, lies at a geological junction of ancient metamorphic rocks which produce acid groundwater, and limestone which dissolves in the groundwater. The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive: [3150] Natural Eutrophic Lakes, [6210] Orchid-rich Calcareous Grassland\*, [91A0] Old Oak Woodlands, [91E0] Alluvial Forests\*, [1092] White-clawed Crayfish (*Austropotamobius pallipes*), [1095] Sea Lamprey (*Petromyzon marinus*), [1096] Brook Lamprey (*Lampetra planeri*), [1099] River Lamprey (*Lampetra fluviatilis*), [1106] Atlantic Salmon (*Salmo salar*), and [1355] Otter (L*utra lutra*) (NPWS, 2016).

**Donegal Bay SPA (Site code: 004151)**

Donegal Bay SPA is a very large, marine-dominated, site. It extends from Doorin Point, to the west of Donegal Town, to Tullaghan Point in County Leitrim, a distance of approximately 15 km along its north-east/south-west axis. It varies in width from about 3 km to over 8 km. The site includes the estuary of the River Eske, which flows through Donegal Town, and the estuary of the River Erne, which flows through Ballyshannon. Much of the shoreline is rocky or stony, with well-developed littoral reefs in places. There are also extensive stretches of sandy beaches, especially from the Murvagh peninsula southwards to Rossnowlagh and at the outer part of the estuary of the River Erne. Shingle or cobble beaches are also represented. There are extensive areas of intertidal flats associated with the estuary of the River Eske, reflecting the very sheltered conditions in this part of the bay. These have been shown to be biotope rich, and supporting a range of macro-invertebrates, including polychaete worms (*Hediste diversicolor*, *Arenicola marina* and *Nephtys hombergii*) and bivalves (*Scrobicularia plana*, *Cerastoderma edule* and *Macoma balthica*). Elsewhere, a narrow fringe of intertidal flats is exposed at low tides. Salt marshes are found in the sheltered conditions of the innermost part of the bay. A number of small, grassy, islands occur in the innermost part of the bay. The waters of the shallow bay overlie mostly sandy substrates, though reefs occur in places.

The Special Conservation Interests for the site are: Great Northern Diver, Light-bellied Brent Goose, Common Scoter, Sanderling and Wetland and Waterbirds [A999] (NPWS, 2010).

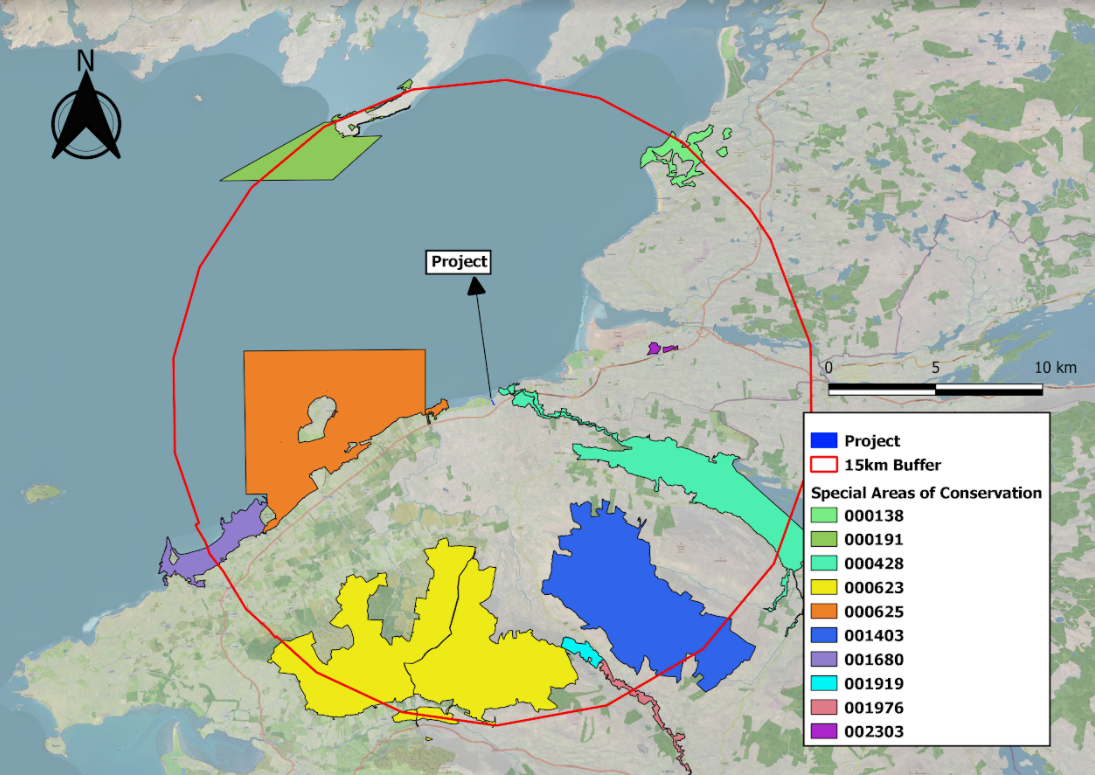
**Sligo/Leitrim Uplands SPA (Site code: 004187)**

The Sligo/Leitrim Uplands SPA is located north-east of the town of Sligo in the mountain ranges of Ben Bulben, Arroo and Cope’s Mountain/Crockauns. The site straddles the Co. Sligo/Co. Leitrim border. The site includes six separate lengths of cliffs in these ranges, including those of King’s Mountain, Benbulbin, Benwiskin, Gleniff, Truskmore, Tievebaun, Glenade, Glencar, Arroo Mountain and Cope’s Mountain/Crockauns. The upper boundary of the site is taken to be 50 m from the cliff top except in the King’s Mountain area, above Glencar Lough, where an expanse of suitable foraging habitat c. 200 m from the cliff top is included. These uplands are formed of Carboniferous limestone, capped in places by shales. They stand on a high plateau, 300-450 m above the surrounding countryside, and the edges form lofty cliffs from 15 to 300 m in height. Areas of scree occur below the cliffs on slopes of 40-50°. The Special Conservation Interest species for the site: Chough and Peregrine (NPWS, 2015).

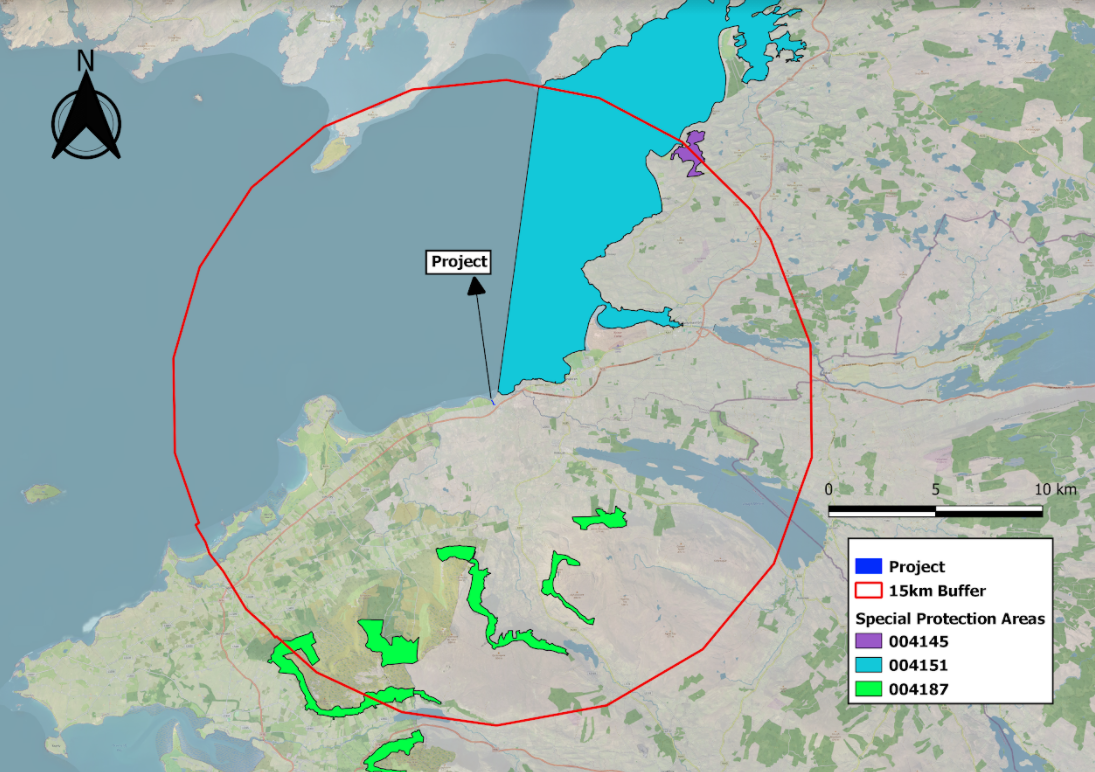
**Durnesh Lough SPA (Site code: 004145)**

Durnesh Lough is situated to the east of Rossnowlagh on the southern side of Donegal Bay, c. 10 km north of Ballyshannon in Co. Donegal. It is a large sedimentary lagoon which is separated from the sea by a barrier composed partly of drumlins and partly of high sand dunes, with the remains of a cobble barrier occurring in places. The lagoon formerly had a natural outlet to the sea, but the outlet is now an artificial channel and pipe running under the sand dunes which appears to allow a certain amount of seawater to enter. The underlying geology of the area is limestone, but this is covered by a thick layer of clay drift deposits in the form of drumlins.

The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species: Whooper Swan and Greenland White Fronted Goose (NPWS, 2010).



**Figure 2‑2SACs within 15km of the Project**



**Figure 2‑3SPAs within 15km of the Project**

**Table 2.1****:Special Areas of Conservation and Qualifying Interests**

|  |  |  |
| --- | --- | --- |
| **Lough Melvin SAC\*\*** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Oligotrophic to mesotrophic standing waters with vegetation of the *Littorelletea uniflorae* and/or *Isoeto-Nanojuncetea*[3130] | Annex I freshwater aquatic habitat | To maintain or restore favourable conservation condition |
| Molinia meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*) [6140] | Annex I terrestrial habitat | To maintain or restore favourable conservation condition |
| Atlantic Salmon (*Salmo salar*) [1106] | Annex II diadromous fish species | To maintain or restore favourable conservation condition |
| Otter *(Lutra lutra)*[1355] | Annex II aquatic mammal | To maintain or restore favourable conservation condition |
| **Bunduff Lough and Machair/Trawalua/Mullaghmore SAC** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Mudflats and sandflats not covered by seawater at low tide [1140] | Annex I marine habitats | To maintain favourable conservation condition |
| Large shallow inlets and bays [1160] | To maintain favourable conservation condition |
| Reefs [1170] | To maintain favourable conservation condition |
| Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes) [2120] | Annex I coastal habitats | To restore favourable conservation condition |
| Fixed coastal dunes with herbaceous vegetation (grey dunes) [2130] | To restore favourable conservation condition |
| Humid dune slacks [2190] | To restore favourable conservation condition |
| Machairs (\* in Ireland) [21A0] | To maintain favourable conservation condition |
| *Juniperus communis* formations on heaths or calcareous grasslands [5130] | Annex I terrestrial habitats | To restore favourable conservation condition |
| Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*)(\*important orchid sites) [6210] | To maintain favourable conservation condition |
| Alkaline fens [7230] | To maintain favourable conservation condition |
| *Petalophyllum ralfsii (*Petalwort) [1395] | Annex II terrestrial plant species | To maintain favourable conservation condition |
| *Euphydryas aurinia* (Marsh Fritillary) [1065] | Annex II terrestrial arthropod species | To maintain favourable conservation condition |
| **Arroo Mountain SAC** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Northern Atlantic wet heaths with *Erica tetralix* [4010] | Annex I terrestrial/ freshwater aquatic habitats | To restore favourable conservation condition |
| European dry heaths [4030] | To restore favourable conservation condition |
| Alpine and Boreal heaths [4060] | To restore favourable conservation condition |
| Blanket bogs (\* if active bog) [7130] | To restore favourable conservation condition |
| Petrifying springs with tufa formation (*Cratoneurion*) [7220] | To maintain favourable conservation condition |
| Calcareous and calcshist screes of the montane to alpine levels (*Thlaspietea rotundifolii)* [8120] | To restore favourable conservation condition |
| Calcareous rocky slopes with chasmophytic vegetation [8210] | To restore favourable conservation condition |
| **Ben Bulben, Gleniff and Glenade Complex SAC\*\*** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Water courses of plain to montane levels with the *Ranunculionfluitantis* and *Callitricho-Batrachion vegetation* [3260] | Annex I freshwater aquatic /terrestrial habitats | To maintain or restore favourable conservation condition |
| Northern Atlantic wet heaths with *Erica tetralix* [4010] | To restore or maintain favourable conservation condition |
| European dry heaths [4030] | To restore or maintain favourable conservation condition |
| Alpine and Boreal heaths [4060] | To restore or maintain favourable conservation condition |
| *Juniperus communis* formations on heaths or calcareous grasslands [5130] | To maintain or restore favourable conservation condition |
| Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (\* important orchid sites) [6210] | To maintain or restore favourable conservation condition |
| Species-rich *Nardus* grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230] | To maintain or restore favourable conservation condition |
| *Hydrophilous* tall herb fringe communities of plains and of themontane to alpine levels [6430] | To maintain or restore favourable conservation condition |
| Transition mires and quaking bogs [7140] | To maintain or restore favourable conservation condition |
| Petrifying springs with tufa formation (*Cratoneurion*) [7220] | To maintain or restore favourable conservation condition |
| Alkaline fens [7230] | To maintain or restore favourable conservation condition |
| Siliceous scree of the montane to snow levels (*Androsacetalia alpinae* and *Galeopsietalia ladani*) [8110] | To maintain or restore favourable conservation condition |
| Calcareous and calcshist screes of the montane to alpine levels (*Thlaspietea rotundifolii)* [8120] | To maintain or restore favourable conservation condition |
| Calcareous rocky slopes with chasmophytic vegetation [8210] | To maintain or restore favourable conservation condition |
| *Vertigo geyeri* (Geyer’s Whorl Snail) [1013] | Annex II terrestrial mollusc species | To maintain or restore favourable conservation condition |
| *Lutra lutra* (Otter) [1355] | Annex II aquatic mammal species | To maintain or restore favourable conservation condition |
| **Dunmuckrum Turloughs SAC\*\*** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Turloughs [3180] | Annex I freshwater aquatic habitat | To maintain or restore favourable conservation condition |
| **Streedagh Point Dunes SAC** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Mudflats and sandflats not covered by seawater at low tide [1140] | Annex I marine habitats | To maintain favourable conservation condition |
| Perennial vegetation of stony banks [1220] | Annex I coastal habitats | To maintain favourable conservation condition |
| Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) [1330] | To restore favourable conservation condition |
| Mediterranean salt meadows (*Juncetalia maritimi*) [1410] | To maintain favourable conservation condition |
| Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes) [2120] | To restore favourable conservation condition |
| Fixed coastal dunes with herbaceous vegetation (grey dunes) [2130] |  |
| Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (\* important orchid sites) [6210] | Annex I terrestrial habitat | To restore favourable conservation condition |
| *Vertigo geyeri* (Geyer’s Whorl Snail) [1013] | Annex II terrestrial mollusc species | To maintain favourable conservation condition |
| **Glenade Lough SAC\*\*** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Natural eutrophic lakes with *Magnopotamion* or *Hydrocharition*– type vegetation [3150] | Annex I freshwater aquatic habitat | To maintain favourable conservation condition |
| Najas flexilis (Slender Naiad) [1833] | Annex II freshwater plant species | To maintain favourable conservation condition |
| *Austropotamobius pallipes* (White-clawed Crayfish) [1092] | Annex II freshwater crustacean | To maintain favourable conservation condition |
| **St. John’s Point SAC** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Large shallow inlets and bays [1160] | Annex I marine habitats | To maintain favourable conservation condition |
| Reefs [1170] | To maintain favourable conservation condition |
| Vegetated sea cliffs of the Atlantic and Baltic coasts [1230] | Annex I coastal habitats | To maintain favourable conservation condition |
| Submerged or partially submerged sea caves [8330] | To maintain favourable conservation condition |
| Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (\* important orchid sites) [6210] | Annex I terrestrial/ freshwater aquatic habitats | To restore favourable conservation condition |
| Molinia meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*) [6410] | To restore favourable conservation condition |
| Alkaline fens [7230] | To maintain favourable conservation condition |
| Limestone pavements [8240] | To maintain favourable conservation condition |
| *Euphydryas aurinia* (Marsh Fritillary) [1065] | Annex II terrestrial arthropod species | To maintain favourable conservation condition |
| **Durnesh Lough SAC** | | |
| **Qualifying Interest (\*=Priority Habitat)** | **Ecological Group** | **Conservation Objective** |
| Coastal lagoons [1150] | Annex I coastal habitat | To maintain favourable conservation condition |
| Molinia meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*) [6410] | Annex I terrestrial habitat | To restore favourable conservation condition |
| \*\* Generic Conservation Objectives | | |

**Table 2.2:Special Protection Areas and Special Conservation Interests**

|  |  |  |  |
| --- | --- | --- | --- |
| **Donegal SPA (Site code: 004151)** | | | |
| **Special Conservation Interest** | **Ecological Group** | **Waterbird Foraging and Feeding Guild (based on Weller 1999)** | **Conservation Objective** |
| Light-bellied Brent Goose (*Branta bernicla hrota*) [A046] | Species typically associated with intertidal and terrestrial habitats. Non-diving birds. | Surface swimmer; Intertidal walker, out of water; terrestrial walker | To maintain favourable conservation condition |
| Common Scoter (*Melanitta nigra*) [A065] | Foraging distributions extending from inshore coastal waters to offshore areas. Diving birds. | Water column diver – greater depths | To maintain favourable conservation condition |
| Great Northern Diver (*Gavia immer*) [A003] | To maintain favourable conservation condition |
| Sanderling (*Calidris alba*) [A144] | Species typically associated with intertidal habitats. Rarely found outside of intertidal habitats. Probe feeding birds. Non-diving birds. | Intertidal walker, out of water; Intertidal walker, in water; | To maintain favourable conservation condition |
| Wetland and Waterbirds [A999] | Habitat - Eutrophication has the potential to alter wetland habitats as certain wetland species would be sensitive to changes in water quality. Influxes in nutrients can result in a shift in species composition toward more tolerant competitive species and a loss of rarer species which typically require lower nutrient inputs. Floristic diversity generally decreases and sensitive invertebrate species may be lost. Some aquatic plants and algae may increase in biomass. The discharge enters a freshwater stream at the mouth of the bay, with the closest intertidal wetland habitats comprising mudflats. | - | To maintain favourable conservation condition |
| **Durnesh Lough SPA (Site code: 004145)\*\*** | | | |
| **Special Conservation Interest** | **Ecological Group** | **Waterbird Foraging and Feeding Guild (based on Weller 1999)** | **Conservation Objective** |
| Whooper Swan (*Cygnuscygnus*) [A038] | Main foraging habitats are intertidal and freshwater habitats with limited foraging in coastal waters. Dabbler birds. Non-diving birds. | Surface swimmer; Terrestrial, walker | To maintain or restore favourable conservation condition |
| Greenland White-fronted Goose (*Anser albifrons flavirostris*) [A395] | Species typically associated with terrestrial habitats. Rarely found foraging outside of terrestrial habitats. Non-diving birds. | Terrestrial, walker | To maintain or restore favourable conservation condition |
| **Sligo/Leitrim Uplands SPA (Site code:004187)\*\*** | | | |
| **Special Conservation Interest** | **Ecological Group** | **Waterbird Foraging and Feeding Guild (based on Weller 1999)** | **Conservation Objective** |
| Peregrine (*Falco peregrinus*) [A103] | Species typically associated with coastline or inland habitats; rarely found foraging outside of these habitats. Non-diving birds. | **-** | To maintain or restore favourable conservation condition |
| Chough (*Pyrrhocorax pyrrhocorax*) [A346] | **-** | To maintain or restore favourable conservation condition |
| \*\* Generic Conservation Objectives | | | |

#### Assessment of Potential Significant Effects to QIs of SACs

**Table 2.3** and **Table 2.4**section summarises the screening assessments of the potential effects (direct or indirect) of project impact mechanism 1 and 2 (identified in **Section 2.3.1.2**above) to the Annex I QI habitats and Annex II QIs species for which the following SACs are designated:

* Lough Melvin SAC (Site code: 000428)
* Bunduff Lough and Machair/Trawalua/Mullaghmore SAC (Site code: 000625)
* Arroo Mountain SAC (Site code: 001403)
* Ben Bulben, Gleniff and Glenade Complex SAC (Site code: 000623)
* Dunmuckrum Turloughs SAC (Site code: 002303)
* Streedagh Point Dunes SAC (Site code: 001680)
* Glenade Lough SAC (Site code: 001919)
* St. John's Point SAC (Site code: 000191)
* Durnesh Lough SAC (Site code: 0001380)
* Lough Gill SAC (Site code: 001976)

The summaries of the assessment are presented in **Table 2.3** and **Table 2.4** according to the ecological group identified in **Table 2.1**in **Section 2.3.1.2.**

In summary, given the nature, duration and spatial extent of the proposed works associated with the Project, and the location of the QIs of SACs, it was concluded that there **no viable pathway for significant effects**. Given that there is no potential pathway for significant effects, the QI and impact mechanism combinations are **screened out** of further assessment

**Table 2.3:Impact Mechanism 1 – Construction noise effects to QIs of SACs within 15km of the Project**

| **Ecological Group** | | **Source-Pathway-Receptor Assessment** |
| --- | --- | --- |
| **I Habitats** | **Coastal habitats**  **Freshwater aquatic habitats**  **Marine habitats**  **Terrestrial habitats** | There is no potential pathway for interaction between the impact mechanism and the QIs. |
| **II Species** | **Aquatic mammal species** | The National Biodiversity Data Centre includes records of otters in the lower reaches of the Drowse River approximately 1 km northeast of the Project area (1987 two records; 1998 one record; 2004 one record) and along the seashore approximately 500 m west of the Project area (1 record: 1980).  While otter may be found in the vicinity of the general area, the species are mainly active in the very early morning and/ or late evening. Given this activity it is unlikely that the species will be active in the Project area during operations. Consequently, it is concluded that significant disturbance effects will not occur. |
| **Diadromous fish species** | The construction activities are entirely land based and will not result in underwater noise; there is no potential pathway for interaction with the QI. |
| **Freshwater crustacean species**  **Terrestrial arthropod species**  **Terrestrial mollusc species**  **Terrestrial plant species** | There is no potential pathway for interaction between the impact mechanism and the QIs. |

**Table 2.4:Impact Mechanism 2 – Effect of discharges to QIs of Sacs within 15km of the Project**

|  |  |  |
| --- | --- | --- |
| **Ecological Group** | | **Source-Pathway-Receptor Assessment** |
| **I Habitats** | **Coastal habitats**  **Freshwater aquatic habitats**  **Marine habitats**  **Terrestrial habitats** | While construction activities may result in the release of dust, sediment, chemicals and/ or waste material, the volumes discharged will be small and spatially limited to the immediate Project area; consequently, it can be concluded that there will be no significant effects from the impact mechanism to the QIs. There is no potential pathway for interaction between the impact mechanism and the QIs. |
| **II Species** | **Diadromous fish species** |
| **Aquatic mammal species** |
| **Freshwater crustacean species**  **Terrestrial arthropod species**  **Terrestrial mollusc species**  **Terrestrial plant species** |

#### Assessment of Potential Significant Effects to SCIs of SPAs

**Table 2.5** and **Table 2.6** summarise the screening assessments of the potential effects (direct or indirect) of project impact mechanism 1 and 2 (identified in **Section 2.3.1.2**above) to the ecological groups of SCIs of the following SPAs:

* Donegal Bay SPA (Site code: 004151) (500m north)
* Sligo/Leitrim Uplands SPA (Site code: 004187) (6.7km south)
* Durnesh Lough SPA (Site code: 004145) (13.9km northeast)

In summary, given the nature, duration and spatial extent of the proposed works associated with the Project, and the foraging behaviour and/ or location of the SCIs of the SPAs, it was concluded that there **no viable pathway for significant effects**. Given that there is no potential pathway for significant effects, the SCI and impact mechanism combinations are **screened out** of further assessment

**Table 2.5:Impact Mechanism 1 – Construction noise effects to SCIs of SPAs within 15km of the Project**

| **Ecological Group** | | **Source-Pathway-Receptor Assessment** |
| --- | --- | --- |
| **Habitat** | **Wetland and Waterbirds** | There is no potential pathway for interaction between the impact mechanism and the QIs. |
| **Waterbird Species** | **Water column dive foraging species** | The construction activities are entirely land based and will not result in noise disturbance to diving bird species foraging; consequently, it is concluded that significant disturbance effects will not occur. |
| **Non-diving terrestrial foraging species**  **Non-diving intertidal foraging walker species**  **Surface swimmer dabbling foraging species** | While the construction activities are entirely land based there is potential that the activities may result in noise disturbance to species foraging in the adjacent intertidal and terrestrial habitats. However, given the time span and nature of the proposed activities, any disturbance, if realised, will be of a very short duration (6 weeks) and spatially limited to habitat areas immediately surrounding the Project area. The spatial extent of the areas potentially affected is relatively insignificant when compared to the spatial extent of the wider area available to the bird species for foraging.  For the above reasons, it is concluded that significant disturbance effects will not occur. |
| **Non-waterbird species** | **Coastline/ inland species** | As described above for waterbird species, noise disturbance associated with the Project will not significantly affect coastline/ inland bird species. |

**Table 2.6:Impact Mechanism 2 – Effect of discharges to SCIs of SPAs within 15km of the Project**

|  |  |  |
| --- | --- | --- |
| **Ecological Group** | | **Source-Pathway-Receptor Assessment** |
| **Habitat** | **Wetland and Waterbirds** | The structure and functionality of wetlands are influenced by aspects of hydrological regime, sediment transport and water quality.  Activities associated with the proposed Project will not affect hydrological regime and sediment transport.  While construction activities may result in the release of dust, sediment, chemicals and/ or waste material, the volumes discharged will be small and spatially limited to the immediate Project area.  For the above reasons, it is concluded that there will be no pathway for significant effects. |
| **Waterbird Species** | **Water column dive foraging species** | While construction activities may result in the release of dust, sediment, chemicals and/ or waste material, the volumes discharged will be small and spatially limited to the immediate Project area. Consequently, it can be concluded that there will be no significant direct effects water and habitat quality, or indirect effect to foraging success. |
| **Non-diving terrestrial foraging species**  **Non-diving intertidal foraging walker species**  **Surface swimmer dabbling foraging species** |
| **Non-waterbird species** | **Coastline/ inland species** |

### Plans or Projects That Might Act In-Combination

As outlined in **Section2.1**, the obligation to undertake AA under the Part XAB of the Planning and Development Act 2000 and the 2011 Birds and Natural Habitats Regulations derives from Article 6(3) and 6(4) of the Habitats Directive. Regulation 42 (1) of the 2011 Regulations requires that:

*A screening for Appropriate Assessment of a plan or project for which an application for consent is received, or which a public authority wishes to undertake or adopt, and which is not directly connected with or necessary to the management of the site as a European Site, shall be carried out by the public authority to assess, in view of best scientific knowledge and in view of the conservation objectives of the site, if that plan or project, individually or* ***in combination with other plans or projects*** *is likely to have a significant effect on the European site*.

It is therefore required that the potential impacts of the proposed project are considered in combination with other relevant plans or projects.

As described above in **Section 2.3.1.2**, given the nature of the proposed activities associated with the project, the potential project impact mechanisms (or sources of impact) are:

1. construction noise disturbance
2. discharges released during construction

**Section 2.3.1.3** concluded that there no viable pathway between the project impact mechanisms and the QIs and SCIs of SACs and SPAs.

The assessment of potential in combination effects considers other plans and projects, that may result in cumulative significant effects QIs and SCIs of SACs and SPAs.

To inform the assessment of potential in combination effects a review of consent applications for projects in the vicinity of the proposed project included on the following web-sites was completed in September 2020:

* Department of Housing, Planning and Local Government (DHPLG) –Foreshore Applications
  + <https://www.housing.gov.ie/planning/foreshore/applications/>
* DHPLG - EIA Portal
  + <https://www.housing.gov.ie/planning/environmental-assessment/environmental-impact-assessment-eia/eia-portal>
* Leitrim County Council- Planning System
  + <http://www.eplanning.ie/LeitrimCC/searchtypes>
  + <https://leitrimcoco.maps.arcgis.com/apps/webappviewer/index.html?id=8645fc340c8d457b99ce71ce20bd79f1>
* Sligo County Council- Planning System
  + <http://lp4.sligococo.ie/LP4/default.aspx?topicname=Planning&featureid=0>
  + <http://www.eplanning.ie/SligoCC/searchtypes>
* Donegal County Council - Planning System
  + <http://www.donegalcdb.ie/eplan/internetenquiry/rpt_querybysurforrecloc.asp>
* Environmental Protection Agency (EPS)–Dumping at Sea (DaS) Permitting System
  + <http://www.epa.ie/terminalfour/DaS/index.jsp?disclaimer=yes&Submit=Continue>

The assessment of potential in combination effects also considered *negative impacting threats and pressures* and *positive impacting activities/ management* affecting the sites as identified in Natura 2000 forms published for the SPA and SAC sites available through the NPWS website (<https://www.npws.ie/protected-sites>).

Screening assessments of potential cumulative or in-combination effects from current and proposed projects listed on above websites are summarised in **Table 2.7**.

In summary, the assessments presented **Table 2.7**conclude that there is no potential likelihood for significant effects caused by cumulative or in-combination effects.

It was concluded that there is **no potential likelihood for significant effects from the proposed project in combination with other plans or projects**.

**Table 2.7:Assessment of potential in combination effects.**

| **Website** | **Project Details** | **File Reference** | **Date Application Received** | **Assessment of Potential Cumulative or In-combination Effects** | **Conclusion** |
| --- | --- | --- | --- | --- | --- |
| [**DHPLG**](http://www.housing.gov.ie/planning/foreshore/foreshore-consenting) **Foreshore** | A search of the DHPLG foreshore database was undertaken to examine projects with potential for in combination effects. | - | - | There are no projects in the vicinity of the proposed work at Tullaghan that would result in in combination effects. | No potential significant cumulative or in‑combination effects |
| **DHPLG - EIA Portal** | A search of the DHPLG EIA Portal was undertaken to examine projects with potential for in combination effects. | - | - | There are no projects in the vicinity of the proposed work at Tullaghan that would result in in combination effects. | No potential significant cumulative or in‑combination effects |
| **Leitrim County Council- Planning System**  **Sligo County Council- Planning System**  **Donegal County Council- Planning System** | A search of the Leitrim, Sligo and Donegal planning databases was undertaken to examine projects with potential for in combination effects. | - | - | Applications made typically to County Councils and published on the planning database consisted of extensions and renovations to existing houses, and retention of existing developments. These are small scale terrestrial developments which do not have the potential to result in cumulative effects in-combination with the proposed project. | No potential significant cumulative or in‑combination effects |
| **EPA – DaS Permitting System** | A search of the EPA DaS permitting system was undertaken to examine dredging projects with potential for in combination effects. | S0028-01 | 30/11/16 | Capital dredging of Smooth Point at Killybegs Harbour to facilitate the extension of the existing harbour quay. 94,500m3 of Class 1 materials arising from these dredging operations will be disposed of to sea. The distance between the sites where dredge spoil will be removed and disposed, and the development at Tullaghan is too great to result in in-combination effects. | No potential significant cumulative or in‑combination effects |

## Screening Outcome

The current assessment investigates the potential for the proposed Tullaghan Access to Sea Project to have significant effects on European Sites within the Natura 2000 network.

The assessment has determined, in light of best available scientific data, that there is no potential for significant effects on the SACs and SPAs from the proposed project *i.e.,* the likelihood of significant effects on all other European sites has been ruled out.

The assessment also determined that there is no potential likelihood for significant effects from the proposed project in combination with other plans or projects. The findings of the assessment are summarised in **Table 2.8**.

**Table 2.8:Screening matrix of the proposed project.**

|  |  |
| --- | --- |
| **Screening Matrix** | |
| Brief description of the project or plan | The objective of the Tullaghan Access to Sea Project (the ’Project’) is to provide access from the Mountain Dale road 75m north east of the entrance to the Carbery Coast Estate in Tullaghan to the shoreline (**Figure1‑1** and **Figure2-1**). The Project comprises the installation of an access road, car park and landscaped picnic area on Leitrim County Council lands between the Mountain Dale public road and the shoreline.  The Project also includes the upgrading of an existing pedestrian path and the installation of car parking spaces along the public road. |
| **European Site(s)** | |
| Brief description of the European site(s) | Adopting a precautionary principle, the European sites within 15km radius of the proposed project (as measured using the shortest linear distance) were considered in this screening for AA; The sites are:   * Lough Melvin SAC * Bunduff Lough and Machair/Trawalua/Mullaghmore SAC * Arroo Mountain SAC * Ben Bulben, Gleniff and Glenade Complex SAC * Dunmuckrum Turloughs SAC * Streedagh Point Dunes SAC * Glenade Lough SAC * St. John's Point SAC * Durnesh Lough SAC * Lough Gill SAC * Donegal Bay SPA * Sligo/Leitrim Uplands SPA * Durnesh Lough SPA   The QIs of the above SACs and the SCIs of the above SPAs are listed in **Table 2.1**and **Table 2.2** alongside conservation objectives set for the conservation features. |
| **Assessment Criteria** | |
| Describe the individual elements of the project(either alone or in combination with other plans or projects) likely to give rise to impacts on the European site. | Given the nature of the proposed activities associated with the project as detailed in **Section 2.2**, the potential project impact mechanisms (or sources of impact) are:   1. construction noise disturbance 2. discharges released during construction   It is concluded that there no viable pathway between the project impact mechanisms and the QIs and SCIs of SACs and SPAs. The assessments are presented in full in **Section 2.3.1.3** and **Section 2.3.1.4** respectively.  The assessment of potential in combination effects considers other plans and projects, that may result in cumulative significant effects QIs and SCIs of SACs and SPAs. In summary, the assessments presented **Table 2.7** conclude that there is no potential likelihood for significant effects caused by cumulative or in-combination effects. |
| Describe any likely direct, indirect or secondary impacts of the project (either alone or in combination with other plans or projects)on the Natura 2000 site by virtue of  Size and scale, Land-take. |
| Distance from the Natura 2000 site or key interests of the site; | The proposed works lie outside of SACs and SPAs. The closest SAC and SPA to the proposed project is approximately 520 and 500 m respectively. Distances of SACs and SPAs within 15km of the project are detailed in **Section 2.3.1.2** above. |
| Resource requirements (water abstraction *etc.*); | During the proposed project, construction equipment and plant (excavators *etc.*) will be in operation. The fuel used by the construction equipment, dumper trucks and plant and vessels will be petrol/ diesel.  Works at the site will involve the uses of rock/ gravel fill or backfill material and Asphaltic concrete. Where possible excavated material will be reused. |
| Emissions (disposal to land, water or air); | Atmospheric and noise emissions from construction equipment, dumper trucks and plant. |
| Excavation requirements;  Transportation requirements; | ***Excavation requirements***  The stripping back of topsoil in the road and carparking areas. Where possible excavated material will be reused.  ***Transportation requirements***  Excavated material not reused will be taken from site using dumper trucks for disposal at licenced facilities. Rock/ gravel fill or backfill material and Asphaltic concrete required at the site will be delivered using trucks. |
| Duration of construction, operation,  Decommissioning Other. | The proposed Project activity comprises limited earthworks and the installation of roadway, carpark, path surfaces and the relocation of existing electricity lighting. The earthworks and installation of surfaces involves the use of excavators and dumper trucks. On completion of the work at the site all equipment will leave the project area.  Subject to securing the necessary consents, it is anticipated that installation operations will commence in early October 2021. It is expected that the development will become fully complete and available for use by the general public by mid November 2021. The dates and timeframes for the project may change dependent on the outcome of the consenting process. |
| Describe any likely changes to the site arising as a result of:  Reduction in habitat area;  Disturbance to key species;  Habitat or species fragmentation;  Reduction in species density;  Changes in key indicators of conservation value (water quality *etc*.).  Climate change | It is concluded that there is no potential likelihood for significant effects caused by the project in isolation or in in-combination with other plans and projects, the following aspects of SACs and SPAs:   * Reduction in habitat area * Disturbance to key species * Habitat or species fragmentation * Reduction in species density * Water quality   With regard effect to climate change, the main source of atmospheric emissions from the proposed project will result from engine exhaust gases from engines associated with the construction equipment, dumper trucks and plant. Given the short duration of the project (approximately 6 weeks), significant effect on climate from atmospheric emissions can be discounted. |
| Describe any likely impacts on the Natura2000 site as a whole in terms of:  Interference with the key relationships that define the structure of the site;  Interference with key relationships that define the function of the site. | It is concluded that there is no potential likelihood for significant effects caused by the project in isolation or in in-combination with other plans and projects. |
| Provide indicators of significance as a result of the identification of effects set out above in terms of:  Loss; Fragmentation; Disruption; Disturbance; Change to key elements of the site. | Indicators of significance are loss of SCI and QI species and habitats.  Indicators of significance are behavioural changes in SCI and QI species.  It is concluded that there is no potential likelihood for significant effects caused by the project in isolation or in in-combination with other plans and projects. |
| Describe from the above those elements of the project or plan, or combination of elements, where the above impacts are likely to be significant or where the scale or magnitude of impacts is not known. | It is concluded that there is no potential likelihood for significant effects caused by the project in isolation or in in-combination with other plans and projects. |

# References

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1. The most recent Article 17 report (2019) is available at <https://www.npws.ie/publications/article-17-reports/article-17-reports-2019> [↑](#footnote-ref-2)