



**FLYNN
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ENVIRONMENTAL CONSULTANTS

AAS Report

Proposed Old Kilcullen Heritage Trail

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Contents

1	Introduction.....	5
1.1	Relevant Legislation and Overall Screening Methodology.....	6
1.2	Appropriate Assessment Screening Report	9
1.3	Reference Documents	9
1.4	Relevant Case Law	10
1.5	Statement of Authority.....	12
2	Description of Proposed Development	13
2.1	Proposed Development	13
3	Methodology.....	16
3.1	Desk Study.....	16
3.2	Data Used to Carry Out the Assessment.....	16
3.3	SPR Model.....	16
3.4	Field Survey.....	17
4	Results	17
4.1	Desk Study.....	17
4.1.1	Surface Water	17
4.1.2	Ground Water.....	18
4.1.3	Species Records.....	18
4.1.4	Invasive Species Records.....	19
4.2	Field Study Results.....	19
4.2.1	Habitats Description	19
4.2.2	Habitats Directive - QI Habitats	20

4.2.3	Significance of Habitats	21
4.2.4	Habitats Directive - QI Species	21
4.2.5	Birds Directive - QI Species	22
4.2.6	Invasive Species	22
5	Identification of the Natura 2000 Sites within the Likely Zone of Influence	23
5.1	Works, Site Characteristics and Risks to the Environment	24
5.2	Natura 2000 Sites within the Zone of Influence (Zol)	25
5.3	Natura 2000 Sites with the Potential to be Significantly Affected by the Proposed Development	26
6	Findings Of Article 6(3) Screening Assessment	26
6.1	Is the Project Necessary to the Management of Natura 2000 Sites	26
6.2	Possible Direct, Indirect or Secondary Impacts	26
6.3	Cumulative and In-Combination Impacts	26
6.4	Conclusion	27
	References	29
	Appendix 1: Biodiversity records accessed	31
	Appendix 2: Pictures of the site	64

1 Introduction

Flynn Furney Environmental Consultants have been appointed to provide the information necessary to allow the competent authority to conduct an Article 6(3) Screening for Appropriate Assessment for the proposed Old Kilcullen Heritage Trail at Old Kilcullen, Co. Kildare. A full description of the proposed works is given in Section 2 below.



Figure 1: Location of proposed development

Screening for Appropriate Assessment is required under Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (the Habitats Directive). This Appropriate Assessment Screening Report has been prepared in accordance with the European Commission's Assessment of Plans and Projects Significantly affecting Natura 2000 Sites: Methodological Guidance on the provisions of Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC (EC, 2021) and Managing Natura 2000 Sites: the provisions of Article 6 of the 'Habitats' Directive 92/43/EEC (EC, 2018) as well as the Department of the Environment's Appropriate Assessment of Plans and Projects in Ireland - Guidance for Planning

Authorities (DoEHLG, 2010).

1.1 Relevant Legislation and Overall Screening Methodology

The methodology for this screening statement is set out in a document prepared for the Environment DG of the European Commission entitled 'Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC' (European Commission, 2019, amended 2021). This report and any contributory fieldwork were carried out in accordance with guidelines given by the Department of Environment, Heritage and Local Government (2009, amended 2010).

The process is given in Articles 6(3) and 6(4) of the Habitats Directive and is commonly referred to as 'Appropriate Assessments' (which in fact refers to Stage 2 in the sequence under the Habitats Directive Article 6 assessment). Article 6 of the Habitats Directive sets out provisions which govern the conservation and management of Natura 2000 sites. Articles 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to affect Natura 2000 sites (Annex 1.1). Article 6(3) establishes the requirement for Appropriate Assessment:

"Any plan or project not directly connected with or necessary to the management of the (Natura 2000) site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subjected to appropriate assessment of its implications for the site in view of the site's conservation objectives. In light of the conclusions of the assessment of the implication for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public."

Article 6(4) of the same directive states:

"If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of social or economic nature, the Member State shall take all compensatory

measures necessary to ensure that the overall coherence of the Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted. Where the site concerned hosts a priority natural habitat type and/or a priority species the only considerations which may be raised are those relating to human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission to other imperative reasons of overriding public interest.”

It is the responsibility of the proponent of the plan or project to provide the relevant information (ecological surveys, research, analysis etc.) for submission to the ‘competent national authority’. Having satisfied itself that the information is complete and objective, the competent authority will use this information to screen the project, i.e. to determine if an AA is required and to carry out the AA, if one is deemed necessary. The competent authority shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned. The appropriate assessment process has four stages. Each stage determines whether a further stage in the process is required. If, for example, the conclusions at the end of Stage One are that there will be no significant impacts on the Natura 2000 site, there is no requirement to proceed further. The four stages are:

1. Screening to determine if an appropriate assessment is required.
2. Appropriate assessment
3. Consideration of alternative solutions
4. Imperative Reasons of Overriding Public Interest/Derogation

Table 1: The stages of AA

Stage 1: Screening for AA
The aim of screening is to assess firstly if the plan or project is directly connected with or necessary to the management of Natura 2000 Site(s); or in view of best scientific knowledge, if the plan or project, individually or in combination with other plans or projects, is likely to have a significant effect on a Natura 2000 Site. This is done by examining the proposed plan or project and the conservation

objectives of any Natura 2000 Sites that might potentially be affected. If screening determines that there is potential for significant effects or there is uncertainty regarding the significance of effects, then it will be recommended that the plan or project is brought forward to the next stage of the AA process.

Stage 2: Appropriate Assessment

The aim of stage 2 of the AA process is to identify any adverse impacts that the plan or project might have on the integrity of relevant Natura 2000 Sites. As part of the assessment, a key consideration is 'in combination' effects with other plans or projects. Where adverse impacts are identified, mitigation measures can be proposed that would avoid, reduce or remedy any such negative impacts and the plan or project should then be amended accordingly, thereby avoiding the need to progress to Stage 3.

Stage 3: Assessment of Alternative Solutions

If it is not possible during Stage 2 of the AA process to conclude that there will be no adverse effects on site integrity, Stage 3 of the process must be undertaken which is to objectively assess whether alternative solutions exist by which the objectives of the plan or project can be achieved. Explicitly, this means alternative solutions that do not have adverse impacts on the integrity of a Natura 2000 Site. It should also be noted that EU guidance on this stage of the process states that, 'other assessment criteria, such as economic criteria, cannot be seen as overruling ecological criteria' (*EC, 2002*). In other words, if alternative solutions exist that do not have adverse impacts on Natura 2000 Sites; they should be adopted regardless of economic considerations. This stage of the AA process should result in the identification of the least damaging options for the plan or project.

Stage 4: Imperative Reasons of Overriding Public Interest (IROPI)/Derogation

This stage of the AA process is undertaken when it has been determined that a plan or project will have adverse effects on the integrity of a Natura 2000 Site, but that no alternatives exist. At this stage of the

AA process, it is the characteristics of the plan or project itself that will determine whether or not the competent authority can allow it to progress. This is the determination of ‘overriding public interest’. It is important to note that in the case of Natura 2000 Sites that include in their qualifying features ‘priority’ habitats or species, as defined in Annex I and II of the Directive, the demonstration of ‘overriding public interest’ is not sufficient and it must be demonstrated that the plan or project is necessary for ‘human health or safety considerations’. Where plans or projects meet these criteria, they can be allowed, provided adequate compensatory measures are proposed. Stage 4 of the process defines and describes these compensation measures.

1.2 Appropriate Assessment Screening Report

This report provides stage one: screening for appropriate assessment. It aims to establish whether a plan or project is likely to have any significant effects on any Natura 2000 sites. The study is based on a preliminary impact assessment using both publicly available data and data collected during site visits and ecological surveys. This is followed by a determination of whether there is a risk that the effects identified could significantly impact any Natura 2000 sites, and if so, an AA is required. The need to apply the precautionary principle in making any key decisions in relation to the tests of AA has been confirmed by the European Court of Justice case law. Therefore, where significant effects are likely, possible or uncertain at the screening stage, AA will be required.

1.3 Reference Documents

The following relevant documents were considered in preparation of this report.

Table 2: Reference Documents

Name / Number	Description
Appropriate Assessment of Plans and Projects in Ireland - Guidance for Planning Authorities	National guidance on Appropriate Assessment for planning authorities. Department of Environment, Heritage and Local Government, (2010 revision)
Appropriate Assessment under Article 6 of the Habitats Directive: Guidance for Planning Authorities	Circulars issued by the Department of Environment, Heritage and Local Government with guidance relating to Appropriate Assessment. Circular NPWS 1/10 & PSSP 2/10 (2010)
Assessment of Plans and Projects Significantly Affecting Natura 2000 sites: Methodological Guidance on the Provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC	The guidance within this document provides a non-mandatory methodology for carrying out assessments required under Articles 6(3) and (4) of the Habitats Directive European Commission Environment Directorate-General, (2001 and updates April 2015 and September 2021).
Managing Natura 2000 Sites: The Provisions of Article 6 of the Habitats Directive 92/43/EEC	Publication to the Member States with an interpretation of certain concepts in Article 6 of the Habitats Directive. EC Environment Directorate-General (2018)
Communication from the Commission on the precautionary principle.	Publication relating to the use of the precautionary principle. European Commission (2000)

1.4 Relevant Case Law

The European Court of Justice has a considerable body of case law relating to the application of Articles

6(3) and 6(4) of the Directive; Table 3 below provides some of the rulings relevant to the current assessment.

Table 3: Relevant case-law from the European Court of Justice

Case	Ruling
People Over Wind and Sweetman v Coillte Teoranta (C-323/17)	<p>The ruling of the CJEU in this case requires that any conclusion of ‘no Likely Significant Effect’ on a Natura 2000 Site must be made prior to any consideration of measures to avoid or reduce harm to the Natura 2000 Site.</p> <p>The determination of Likely Significant Effects should not, in the opinion of the CJEU, constitute an attempt at detailed technical analyses. This should be conducted as part of the AA.</p>
Waddenzee (C-127/02)	<p>The ruling in this case clarified that AA must be conducted using best scientific knowledge, and that there must be no reasonable scientific doubt in the conclusions drawn.</p> <p>The Waddenzee ruling also provided clarity on the definition of ‘significant effect’, which would be any effect from a plan or project which is likely to undermine the conservation objectives of any Natura 2000 Site.</p>
Holohan and Others v An Bord Pleanála (C-461/17)	<p>The conclusions of the Court in this case were that consideration must be given during AA to:</p> <p>effects on qualifying habitats and/or species of a SAC or SPA, even when occurring outside of the boundary of a Natura 2000 Site, if these are relevant to the site meeting its conservation objectives; and,</p> <p>effects on non-qualifying habitats and/or species on which the qualifying habitats and/or species depend, and which could result in adverse effects on the integrity of the Natura 2000 Site.</p>
T.C Briels and	The ruling of the ECJ in this case determined that compensatory measures

Others v Minister van Infrastructuur en Milieu (C- 521/12)	cannot be used to support a conclusion of no adverse effect on site integrity.
Eco Advocacy CLG v An Bord Pleanála (C- 721/21)	The ruling (preliminary) of the ECJ in this case related to a number of questions, regarding the requirement of the state to transparently state its reasoning when screening a project out at Stage 1, and importantly also the ability to consider mitigation that was built-in to the design of a project, i.e., 'best practice' to be considered at Stage 1 screening of a project.

1.5 Statement of Authority

Flynn Furney Environmental Consultants have more than 20 years of experience in ecological surveying and management. The company has detailed knowledge on the principles and implementation of both Irish and European environmental legislation. FFEC has worked closely with statutory bodies including the National Parks and Wildlife Service and Waterways Ireland on habitat management and protection projects. Other expertise includes Ecological Impact Assessment, Habitat and Floral Surveys, Bird Surveying, Bat Surveying, Fish and Waterways surveys.

The surveying and reporting were carried out by Christopher Doyle, PGDip. and Lauren Woods, BSc and reviewed by Ashley Maggy, MSc. And C. Doyle.

2 Description of Proposed Development

2.1 Proposed Development

The Old Kilcullen area is rich in natural and archaeological heritage. The area is adjacent to the hill of Dun Ailinne, which is a candidate UNESCO World Heritage Site. The project area contains two National Monuments, being the Old Kilcullen Round Tower and a barrow north of the Round Tower. The rural area also has a public house, two construction businesses, as well as low-density residential properties consisting of detached bungalows. The land is generally in agricultural use, with some commonage land to the north of the area.

The road network in the area consists of narrow local roads with typical widths of 4 m. The edges of the carriageway consist of grass margins. These margins are well-maintained adjacent to residential properties but have grown wild in most other areas. The roads are bounded by mature hedgerows in various conditions along the routes. Traffic levels through the area are generally low, and mostly residents and workers. There are no significant trip attractors in the immediate area, beyond the round tower, which is a very small site. The barrow is almost unnoticeable from the road.

The land around the site is primarily agricultural with several low-density detached bungalows and an occasional two-story house. Commercial development is limited to a rural public house, a quarry/waste facility and a crane hire compound.

The project will be divided into two phases. Phase one includes creating trails from Halverstown Crossroads to the 1798 Monument. Phase Two involves creating trails from Halverstown crossroads to Hacklow crossroads. Both will include traffic calming measures such as quiet lanes, gateway zones, false cattle grid, signage and road markings such as verge lines.

Phase One will also include car parking provisions (11 car parking spaces at the northern end of the walking route). The spaces are to be provided parallel to the carriageway and will be separated by the managed margin walking route to ensure safe vehicle access and egress away from the carriageway. The

spaces and managed margins will be reinforced with geosynthetic grass reinforcing grids on a sub-base layer on a geotextile membrane. The car parking area will require ongoing maintenance consisting of grass cutting. An informal car parking area is located adjacent to the Old Kilcullen Round Tower. It is not proposed to include this area as a car park serving the walking route as it is located close to an existing junction and sight visibility is restricted at this location. Control of unauthorised car parking at the Halverstown junction with the R448 and at the Barrow will be provided in the form of 0.75 m high 0.25 m x 0.25 m timber bollards at 3 m intervals. The bollards will be fitted with reflector strips. The bollards will be removable where access is required.

Three bicycle parking racks (for six bicycles) will be provided on a bitumen macadam surface with a coloured resin surface to differentiate the parking area from the surrounding area. The cycle rack will be simple tubular stainless-steel racks set in concrete foundations. The parking bay will be laid out so that the bicycles are parked parallel with the carriageway line of travel.

Phase Two of the project is located between Halverstown Cross and Hacklow Cross. This phase envisages the development of a vulnerable road user (VRU) track for approximately 530 m and for local road improvements on the L6083 for a length of approximately 840 m. The proposed VRU track will facilitate walkers, cyclists and equestrian users. The track will be surfaced with unbound quarry dust and shall be designed to comply with TII DN-GEO-03047 which states:

“Although a closed pavement construction is preferred by cyclists in terms of comfort and safety, there are occasions where a surface is required to give a sense of the environment. In rural cycleway and greenway situations, where the cycleways attractiveness is just as important as comfort, dust path construction or other loose material construction maybe the preferred option in order to blend with the environment and to avoid unnecessary impacts in forests, along protected heritage trails, tow paths and along riverbanks. The application of loose surfaces can enhance the cycleways’ appeal to its users due to its more natural aesthetics.”

Over-the-edge drainage is the preferred arrangement for a rural road with a cycleway adjoining and is the method used for the VRU track. Where over-the-edge drainage is used, it is important to ensure that the

surface water runoff flows off the cycleway towards the drainage ditch and does not pond. Suitable crossfall of between 1% and 3% shall be provided on the trail-way pavement. The verge either side of the route will be constructed with a crossfall of no more than 10%. The outside pavement edge detail of the trail route should be higher than the proposed ground level by the depth of the pavement wearing course to stop back-flow of the surface water runoff from a flat grassed verge. The balance of the Phase Two route will require repair of potholes and surface dressing.

The existing route is a cul-de-sac and provides local residential access and agricultural access only. There are no opportunities for vehicle turning at the end of the roadway. Signage will be required to identify the road as a cul-de-sac without turning opportunities. Managed margins shall be provided along the local road element of the Phase Two trail where possible. Gateway zone signage and traffic calming measures, such as false cattle grids, will be provided along the L6083 as appropriate and will generally mirror the provisions along the Phase One element of the project.

3 Methodology

3.1 Desk Study

A desktop study was carried out as part of this screening process in April 2025. This included a review of available literature on the site and its immediate environs. Sources of information included the National Parks and Wildlife Service databases on protected sites and species data, and from the Environmental Protection Agency on watercourses.

3.2 Data Used to Carry Out the Assessment

The following sources of data were employed:

- Environmental Protection Agency (EPA) Appropriate Assessment Tool
- EPA Maps (to identify watercourses, hydrology and Natura 2000 site boundaries)
- NPWS protected species database and online mapping
- National Biodiversity Data Centre
- Inland Fisheries Ireland
- An Bord Pleanála's online database

3.3 SPR Model

This assessment was carried out with regard to the source-pathway-receptor (SPR) approach, a standard tool in environmental assessment. The SPR concept in ecological impact assessment relates to the idea that for the risk of an impact to occur, a source is needed (a development site); an environmental receptor is present (a lake); and finally, there must be a pathway between the source and the receptor (a watercourse linking the development site to the lake). Even though there might be a risk of an impact occurring, that does not necessarily mean that it will occur, and even if it does occur, it may not be significant. Identification of a risk means that there is a possibility of ecological or environmental damage occurring, with the level and significance of the impact depending upon the nature and exposure to the

risk and the characteristics of the receptor.

In this instance, the most relevant receptors are any relevant Natura 2000 sites with connectivity to the proposed works. These were considered during the desktop study stage of this screening assessment in order to assess the potential for significant effects upon their Qualifying Interests (*QIs*), Sites of Community Importance (*SCIs*) and Conservation Objectives (*COs*). This stage of the process is used to determine whether any of the Natura sites may be 'screened out'. That is, they can be regarded as not being relevant to the process, having no potential to be significantly affected or impacted upon.

3.4 Field Survey

The field survey was carried out on the 6th of March 2025. Baseline ecological conditions were assessed. Habitats were classified according to Fossitt (2000). Where applicable, the habitat types and species usage were recorded (Smith et al. 2011; Scannell and Synnott, 1987; Wyse Jackson et al. 2016). Habitats were classified and dominant plant species were noted according to the guidelines given by the JNCC (2010) with reference to Smith et al. (2011) & Scannell and Synnott (1987).

4 Results

4.1 Desk Study

4.1.1 Surface Water

The closest WFD river waterbody to the site is the Liffey_060 WFD waterbody (European code: IE_EA_09L010700), locally known as the Kilcullen stream (750 m to the east of the site). This WFD river waterbody achieved an overall 'Moderate' status based on the 'Surface Waterbody WFD Status 2016-2021'. The proposed trail is not hydrologically connected to this waterbody. Another WFD waterbody exists around 1 km to the north of the site. This is the Liffey_070 WFD waterbody (European Code: IE_EA_09L010850), locally known as the Kilcullen River. This WFD river waterbody achieved an overall 'High' status based on the 'Surface Waterbody WFD Status 2016-2021'. The proposed trail is not hydrologically connected to this water body. The trail falls within the Liffey and Dublin Bay (Catchment_ID:

09), specifically the Liffey_SC_040 (Subcatchment_ID: 90_11), and the Barrow WFD catchment (Catchment_ID: 14), specifically the Barrow_SC_060 (Subcatchment_ID: 14_18).



Figure 2: Surface water features surrounding the site of the proposed trail

4.1.2 Ground Water

The site of the proposed development falls within three WFD ground waterbodies, including the Kilcullen WFD ground waterbody (European Code: IE_EA_G_003), the New Ross WFD ground waterbody (European Code: IE_SE_G_152), and the Usk Gravels WFD ground waterbody (European Code: IE_SE_G_167).

4.1.3 Species Records

Records from the National Biodiversity Data Centre (NBDC) for the site of the proposed trail and the surrounding area are presented in **Appendix 1: Biodiversity records accessed**

Appendix 1.

4.1.4 Invasive Species Records

Several First Schedule and non-First Schedule invasive species that have been recorded on the NBDC database within 1 km (OSI grid squares N80I and N80H), which encompasses the proposed development, were assessed. However, none were recorded within the footprints of the proposed works, and none of the species below were recorded during the field survey.

Table 4: Records of invasive species within 1 km of the proposed development (NBDC, 2024)

Invasive Species	Invasiveness	First Schedule	Recorded on Site
Eastern Grey Squirrel (<i>Sciurus carolinensis</i>)	High	Yes	No

4.2 Field Study Results

The following section describes the habitats found within the proposed project site. Photos of the habitats present are available in **Appendix 2**.

4.2.1 Habitats Description

The project area features a 4–5 m wide road corridor bordered by diverse hedgerows (WL1) composed of Hazel (*Corylus avellana*), Ivy (*Hedera helix*), Gorse (*Ulex europaeus*), Holly (*Ilex aquifolium*), Ash (*Fraxinus excelsior*), Willow (*Salix* species), Elder (*Sambucus nigra*), and Blackberry (*Rubus fruticosus*). Beyond the hedgerows lies improved agricultural grassland (GA1) with occasional gated access points. Roadside

verges support standard herb species such as Vetch (*Vicia* species), Red Clover (*Trifolium pratense*), White Clover (*Trifolium repens*), Wild Carrot (*Daucus carota*), Broadleaf Dock (*Rumex obtusifolius*), Cleavers (*Galium aparine*), Creeping Buttercup (*Ranunculus repens*), and Meadow Buttercup (*Ranunculus acris*). In wetter areas (GS4) near drains or small standing pools, Common Rush (*Juncus effusus*) becomes more prevalent. Most grassy areas conform to GA1 or GA2 classifications, with GA2 managed as lawns within house perimeters and appearing rank in unmanaged spots.

Around the barrow, hedgerows transition into a treeline (WL2) with Scots Pine (*Pinus sylvestris*), Ash (*Fraxinus excelsior*), Sycamore (*Acer pseudoplatanus*), Beech (*Fagus sylvatica*), Poplar (*Populus* species), and Cherry Laurel (*Prunus laurocerasus*). In some areas, the verge widens to several meters and resembles amenity grassland (GA2) with patches of Blackberry scrub (WS1). The barrow itself is an open area of rank GA2 with pockets of immature woodland (WS2) and WS1. Around the round tower and cemetery, there is little vegetation of note, with verges and hedgerows largely disappearing, giving way to residential gardens and parking space for Brennan's pub. The cemetery appears lightly managed with semi-long GA2 grass, while the greater area is GA1, grazed by sheep.

From the brow of a hill, the road descends southward, with a tall Sycamore (*Acer pseudoplatanus*) treeline lining both sides of the road just beyond the bar. South of the bar, the hedgerows reappear, composed of species similar to those earlier, with some Hawthorn (*Crataegus monogyna*) and Blackthorn (*Prunus spinosa*) now interspersed. The forb community remains unremarkable. Hedgerows continue along both sides of the road until reaching residential ribbon housing on the east side, with a large field on the west side bordered by an over-managed, box-cut hedgerow. Some Snowberry (*Symphoricarpos albus*) is present in the hedges in front of one house, likely planted by the owner or a previous occupant. The hedgerow and treeline resume approximately 100 m north of the main road junction.

4.2.2 Habitats Directive - QI Habitats

Annex I habitats, identified as of utmost conservation importance under the Habitats Directive, receive legal protection within the Irish framework through the transposition of the Directive into national law, primarily under the European Communities (Natural Habitats) Regulations (S.I. 94 of 1997), which

mandates the designation and conservation of Special Areas of Conservation to safeguard these critical habitats. Table 5 assesses whether any habitat found during ground surveys has links with any of these habitat types.

Table 5: Summary of the habitats recorded within the proposed project site

Habitat Recorded	Fossitt Code	Links with Annex I Habitats
Buildings and Artificial Surfaces	BL3	No
Hedgerows	WL1	No
Improved Agricultural Grassland	GA1	No
Grassy Verges	GS2	No
Wet Grassland	GS4	No
Treelines	WL2	No
Scrub	WS1	No
Immature Woodland	WS2	No

4.2.3 Significance of Habitats

The majority of the habitat types found surrounding the site are those associated with semi-urban. There are no habitats listed on Annex I of Directive 92/43/EEC (Habitats Directive) within the survey area. No species of rare, threatened or protected species of plants as per the Red Data List (Wyse Jackson et al., 2016) and no species listed on the Flora (Protection) Order 2022 were present.

4.2.4 Habitats Directive - QI Species

4.2.4.1 Mammals

Most terrestrial mammals have some level of legal protection in Ireland, with 13 listed on the EU Habitats Directive, 22 on national legislation in the Republic of Ireland, and 18 on national legislation in Northern Ireland. It is an offence to intentionally kill or injure a protected species or to wilfully interfere with or destroy the breeding site or resting place of a protected wild animal. No Natura 2000 sites were found to have connectivity to the proposed development site and no evidence of EU Annex mammal species was observed during the field survey.

4.2.4.2 Fish

The proposed development route does not interact with, or have any connectivity to, any waterbodies.

4.2.4.3 Invertebrates

No QI invertebrate species were found during the desk study when assessing potential for impacts, as no Natura 2000 sites were found to have connectivity to the proposed development site.

4.2.5 Birds Directive - QI Species

A dedicated bird survey was not carried out; however, during the survey, all of birds seen and heard were typical of species within a semi-urban setting. No birds protected under the EU Birds Directive (2009/147/EC), or the Habitats Directive (Council Directive 92/43/EEC) were recorded within the footprint of the proposed development. Species recorded included Rook (*Corvus frugilegus*), Wood Pigeon (*Columba palumbus*), Blue Tit (*Cyanistes caeruleus*) and Wren (*Troglodytes troglodytes*), all of which have 'Green' conservation status in Ireland. No EU Annex bird species were observed.

4.2.6 Invasive Species

Invasive species can have significant and detrimental impacts on Natura 2000 sites, which are designated to protect habitats and species of European importance. The introduction and spread of invasive species can disrupt ecosystems, threaten native biodiversity, and compromise the achievement of conservation objectives.

The following invasive plant species were observed on site.

Table 6: Location of invasive species on-site

Invasive Species Recorded On-Site	Invasiveness (NBDC, 2025)	Location	Risk of spread to Natura 2000 sites
Cherry Laurel (<i>Prunus laurocerasus</i>)	High impact	In hedgerows along the route	Negligible. Proposed development will not be moving or removing these species as they exist within private land.
Snowberry (<i>Symphoricarpos alba</i>)	Medium impact		

5 Identification of the Natura 2000 Sites within the Likely Zone of Influence

The following methodology was used to establish which Natura 2000 Sites are within the Likely Zone of Influence (Zol) of the proposed development:

- The most recent Geographic Information System (GIS) spatial datasets for designated Natura 2000 Sites and water catchments were acquired from the National Parks and Wildlife Service (NPWS) website (www.npws.ie) and the Environmental Protection Agency (EPA) website (www.epa.ie). These datasets were employed to discern Natura 2000 Sites susceptible to potential impacts from the Proposed Development.
- An investigation into the work site characteristics and the risks to the environment with consideration for the potential zone of influence, was carried out to determine all probable pathways and risks to site conservation.
- A source-pathway-receptor model was utilised to identify Natura 2000 Sites within a 15 km radius of the development site, providing contextual information on these sites based on site-specific conservation objectives. The assessment also considered Natura 2000 Sites beyond the 15 km

radius, employing a source-pathway-receptor approach to identify potential impacts. Hydrological catchment mapping facilitated the evaluation of potential hydrological connectivity between the Proposed Development site and Natura 2000 Sites.

- For Special Protection Areas (SPAs), lacking specific European or Irish guidance, the 'Assessing Connectivity with Special Protection Areas (SPA)' guidance from Scottish Natural Heritage (SNH) (2016) was consulted.

All pertinent Natura 2000 Sites are considered, identifying those within the likely zone of influence. This screening assessment evaluates direct and indirect impacts of the Proposed Development, considering size and scale, land-take, distance, resource requirements, emissions, excavation, transportation, and construction/operation duration. Site synopses and conservation objectives from the NPWS website were reviewed as of the report's preparation.

5.1 Works, Site Characteristics and Risks to the Environment

The principal risks posed by the project relate to surface water discharge from the site during the proposed works that may impact the water quality of the receiving environment, leading to likely significant effects (LSE) on any QIs or Site(s) of Community Importance (SCI) species.

Table 7: Potential Impacts, Effects and their zone of influence

Potential Impact and Effect	Description	Zone of Influence
Construction/Installation of Infrastructure and potential QI habitat loss.	The permanent loss of the habitats is present in the footprint of the proposed works.	Lands within the proposed footprint of works and access routes.
Changes in water quality and quantity/distribution resulting in habitat loss or degradation.	Reduction in the quality of retained habitat or loss of habitat from surrounding areas as a result of surface water or	Changes in surface water quality within the local water courses or surface water bodies including the rivers in close proximity

	groundwater pollution.	associated with the proposed development.
Noise, dust, vibration and or human presence resulting in disturbance.	Direct impact on species reducing their ability to forage or breed.	Within or adjacent to the works area for birds.
Invasive Species	The spread of invasive species within Natura 2000 Sites as a result of this project.	Assessed based on the presence of invasive species stands within or surrounding the works area.

5.2 Natura 2000 Sites within the Zone of Influence (ZoI)

There are no Natura 2000 Sites located within the Zone of Influence (ZoI) of the proposed Old Kilcullen Heritage Trail. The nearest Natura 2000 Site is Pollardstown Fen SAC, situated approximately 7.8 km to the northwest. There is no evident ecological connection between the proposed trail and this SAC, as there are no linking watercourses or hedgerows, and no QI habitats or species were identified within the footprint of the proposed works. All remaining Natura 2000 Sites are at a greater distance and have no identifiable connectivity with the proposed development. Given the nature and scale of the development, there is no known vector, pathway, or conduit for impacts between the proposed development and the remaining Natura 2000 sites.

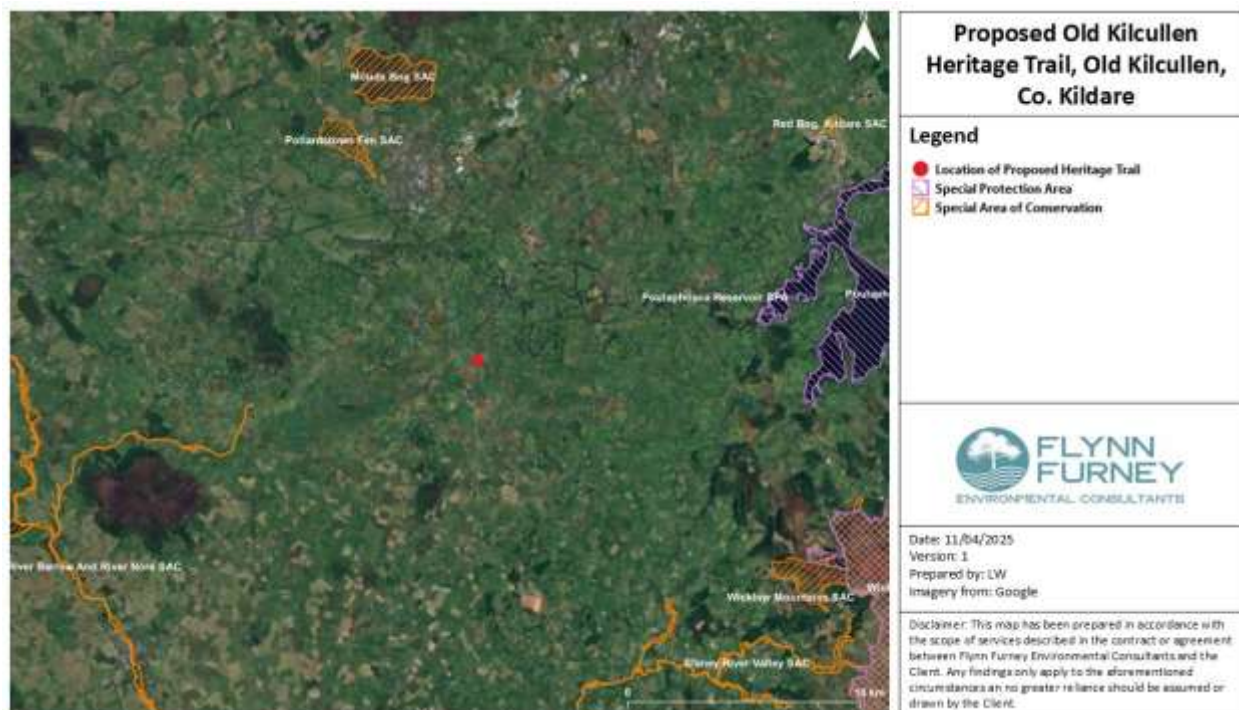


Figure 4: Natura 2000 Sites in close proximity to the proposed development

5.3 Natura 2000 Sites with the Potential to be Significantly Affected by the Proposed Development

Initial screening has identified no Natura 2000 Sites requiring further consideration in this assessment. Therefore, the proposed development is considered extremely unlikely (NRA, 2009) to have any significant direct or indirect impacts on any Natura 2000 sites and they are not considered further in this screening assessment.

6 Findings Of Article 6(3) Screening Assessment

6.1 Is the Project Necessary to the Management of Natura 2000 Sites

The proposed project is not necessary or connected with the management of any Natura 2000 Sites.

6.2 Possible Direct, Indirect or Secondary Impacts

All impacts (both direct and indirect) have been assessed within this report. A conclusion has been drawn by the author that no significant impacts are predicted as a result of the proposed development.

6.3 Cumulative and In-Combination Impacts

A search of the Kildare County Council planning registers was carried out in April 2025. Nearby projects were considered for any in combination or cumulative impacts.

Several planning permissions had been granted in the surrounding area of the proposed Old Kilcullen Heritage Trail, primarily for residential developments. These included permissions for new single-storey dwellings, domestic garages, extensions to existing houses, upgrades to

entrances, and installation of on-site effluent treatment systems (e.g., planning refs 16/1121, 20/56, 21/394, 18/420, 20/693, 17/1233, and 21/1827). In addition to these smaller-scale developments, a larger quarrying and soil recovery operation had been permitted to the south of the proposed trail at Kilsaran, Kilcullen. Planning ref 18/453 permitted the establishment of an inert soil waste recovery facility involving the importation of approximately 1.2 million tonnes of inert material over eight years, with shared use of existing site infrastructure such as the weighbridge, site office, welfare facilities, and a waste inspection area. A further application submitted to An Bord Pleanála (Ref. ABP-2460265) sought to increase the permitted intake to 2.06 million tonnes and extend the operational life of the facility to December 2029. This application also included the continued use of existing infrastructure, ongoing environmental monitoring, and final site restoration to native woodland and grassland habitats. Both quarry-related developments required waste licences from the Environmental Protection Agency and were supported by an Environmental Impact Assessment Report (EIAR) and a Natura Impact Statement (NIS). However, cumulative and in-combination effects are not predicted in relation to the proposed Old Kilcullen Heritage Trail, as the project is not likely to have any significant impact on Natura 2000 sites and therefore could not contribute to cumulative or in-combination impacts.

6.4 Conclusion

This report presents the information for the relevant authority, Kildare County Council, to carry out a screening for AA. A recommendation that a Stage 2 is not required is made, based on the findings of this assessment. It is for the relevant authority to reach one of the following conclusions:

- I. A Stage 2 AA of the proposed development is required if it *cannot* be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will not have a significant effect on any European Natura 2000 Sites.
- II. A Stage 2 AA of the proposed development is not required if it *can* be excluded, on the

basis of objective information, that the proposed development, individually or in combination with other plans or projects, will not have a significant effect on any European Natura 2000 Sites.

It is the conclusion of this report that the proposed heritage trail will not have any likely significant effects on European Natura 2000 Sites and progression to a Stage 2 Appropriate Assessment is not required. Accordingly, having carried out the Stage 1 Appropriate Assessment Screening, the competent authority may determine that a Stage 2 Appropriate Assessment of the proposed site investigation works is not required as it can be excluded, on the basis of objective scientific information following screening under Regulation 42 of the European Communities (Birds and Natural Habitats) Regulations 2011, as amended, that the proposed works, individually or in combination with other plans or projects, will not have a significant effect on any Natura 2000 Site.

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Appendix 1: Biodiversity records accessed

Appendix 1: NBDC records within 1km of the site

Species Name	Record count	Date of last record	Title of dataset	Designation
Common Frog (<i>Rana temporaria</i>)	1	31/12/1979	Irish National Frog Database	Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex V Protected Species: Wildlife Acts
Barn Owl (<i>Tyto alba</i>)	2	24/03/2020	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Barn Swallow (<i>Hirundo rustica</i>)	5	27/10/2019	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Black-billed Magpie (<i>Pica pica</i>)	10	31/12/2011	Bird Atlas 2007 - 2011	
Blackcap (<i>Sylvia atricapilla</i>)	6	31/12/2011	Bird Atlas 2007 - 2011	
Black-headed Gull (<i>Larus ridibundus</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Blue Tit (<i>Cyanistes caeruleus</i>)	16	15/04/2020	Birds of Ireland	
Carrion Crow (<i>Corvus corone</i>)	2	31/12/2011	Bird Atlas 2007 - 2011	
Chaffinch (<i>Fringilla coelebs</i>)	14	02/12/2017	Birds of Ireland	
Coal Tit (<i>Periparus ater</i>)	9	31/12/2011	Bird Atlas 2007 - 2011	

Common Blackbird (<i>Turdus merula</i>)	14	02/12/2017	Birds of Ireland	
Common Bullfinch (<i>Pyrrhula pyrrhula</i>)	8	29/05/2015	Birds of Ireland	
Common Buzzard (<i>Buteo buteo</i>)	13	02/11/2020	Birds of Ireland	
Common Chiffchaff (<i>Phylloscopus collybita</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	
Common Coot (<i>Fulica atra</i>)	2	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Cuckoo (<i>Cuculus canorus</i>)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.	
Common Grasshopper Warbler (<i>Locustella naevia</i>)	1	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Kestrel (<i>Falco tinnunculus</i>)	9	07/06/2017	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Kingfisher (<i>Alcedo atthis</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of

				Conservation Concern - Amber List
Common Linnet (<i>Carduelis cannabina</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Moorhen (<i>Gallinula chloropus</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	
Common Pheasant (<i>Phasianus colchicus</i>)	9	05/05/2018	Birds of Ireland	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
Common Raven (<i>Corvus corax</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	
Common Snipe (<i>Gallinago gallinago</i>)	5	10/10/2021	Birds of Ireland	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Starling (<i>Sturnus vulgaris</i>)	13	02/12/2017	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Common Swift (<i>Apus apus</i>)	4	28/05/2024	Swifts of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern -

				Amber List
Common Whitethroat (<i>Sylvia communis</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	
Common Wood Pigeon (<i>Columba palumbus</i>)	13	05/05/2018	Birds of Ireland	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
Corn Crane (<i>Crex crex</i>)	1	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Eurasian Collared Dove (<i>Streptopelia decaocto</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Curlew (<i>Numenius arquata</i>)	2	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Eurasian Jackdaw (<i>Corvus monedula</i>)	12	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Jay (<i>Garrulus glandarius</i>)	3	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Siskin (<i>Carduelis spinus</i>)	2	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Sparrowhawk (<i>Accipiter nisus</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Teal (<i>Anas crecca</i>)	2	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section

				I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Eurasian Tree Sparrow (<i>Passer montanus</i>)	3	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Eurasian Treecreeper (<i>Certhia familiaris</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	
Eurasian Wigeon (<i>Anas penelope</i>)	1	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Eurasian Woodcock (<i>Scolopax rusticola</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
European Golden Plover (<i>Pluvialis</i>)	2	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected

<i>apricaria</i>)				Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
European Goldfinch (<i>Carduelis carduelis</i>)	10	31/12/2011	Bird Atlas 2007 - 2011	
European Greenfinch (<i>Carduelis chloris</i>)	12	31/12/2011	Bird Atlas 2007 - 2011	
European Robin (<i>Erithacus rubecula</i>)	12	31/12/2011	Bird Atlas 2007 - 2011	
Fieldfare (<i>Turdus pilaris</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	
Goldcrest (<i>Regulus regulus</i>)	10	02/03/2021	Birds of Ireland	
Great Spotted Woodpecker (<i>Dendrocopos major</i>)	2	31/12/2011	Bird Atlas 2007 - 2011	
Great Tit (<i>Parus major</i>)	13	05/05/2018	Birds of Ireland	
Green Sandpiper (<i>Tringa ochropus</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	
Grey Heron (<i>Ardea cinerea</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	
Grey Wagtail (<i>Motacilla cinerea</i>)	8	31/12/2011	Bird Atlas 2007 - 2011	
Hedge Accentor (<i>Prunella modularis</i>)	10	31/12/2011	Bird Atlas 2007 - 2011	
Hen Harrier (<i>Circus cyaneus</i>)	1	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List

Herring Gull (<i>Larus argentatus</i>)	1	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Hooded Crow (<i>Corvus cornix</i>)	14	02/12/2017	Birds of Ireland	
House Martin (<i>Delichon urbicum</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
House Sparrow (<i>Passer domesticus</i>)	8	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Jack Snipe (<i>Lymnocyrtus minimus</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species
Lesser Black-backed Gull (<i>Larus fuscus</i>)	3	10/10/2021	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Lesser Redpoll (<i>Carduelis cabaret</i>)	6	31/12/2011	Bird Atlas 2007 - 2011	
Little Grebe (<i>Tachybaptus ruficollis</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List

Long-tailed Tit (<i>Aegithalos caudatus</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	
Mallard (<i>Anas platyrhynchos</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
Meadow Pipit (<i>Anthus pratensis</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	
Mistle Thrush (<i>Turdus viscivorus</i>)	11	31/12/2011	Bird Atlas 2007 - 2011	
Mute Swan (<i>Cygnus olor</i>)	6	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Northern Lapwing (<i>Vanellus vanellus</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Northern Shoveler (<i>Anas clypeata</i>)	1	29/02/1984	The First Atlas of Wintering Birds in Britain and Ireland: 1981/82-1983/84.	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section III Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Peregrine Falcon (<i>Falco peregrinus</i>)	6	25/06/2020	Birds of Ireland	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird

Kildare County Council

				Species
Pied Wagtail (<i>Motacilla alba subsp. yarrellii</i>)	2	10/10/2021	Birds of Ireland	
Redwing (<i>Turdus iliacus</i>)	5	02/12/2017	Birds of Ireland	
Reed Bunting (<i>Emberiza schoeniclus</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	
Ringed Plover (<i>Charadrius hiaticula</i>)	1	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Rock Pigeon (<i>Columba livia</i>)	5	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species
Rook (<i>Corvus frugilegus</i>)	15	30/09/2018	Birds of Ireland	
Sand Martin (<i>Riparia riparia</i>)	4	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Sedge Warbler (<i>Acrocephalus schoenobaenus</i>)	2	31/12/2011	Bird Atlas 2007 - 2011	
Sky Lark (<i>Alauda arvensis</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Song Thrush (<i>Turdus philomelos</i>)	12	02/12/2017	Birds of Ireland	
Spotted Flycatcher (<i>Muscicapa striata</i>)	3	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern -

				Amber List
Stock Pigeon (<i>Columba oenas</i>)	6	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Tufted Duck (<i>Aythya fuligula</i>)	1	31/07/1991	The Second Atlas of Breeding Birds in Britain and Ireland: 1988-1991	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex II, Section I Bird Species Protected Species: EU Birds Directive >> Annex III, Section II Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Whinchat (<i>Saxicola rubetra</i>)	1	31/07/1972	The First Atlas of Breeding Birds in Britain and Ireland: 1968-1972.	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
White Wagtail (<i>Motacilla alba</i>)	12	31/12/2011	Bird Atlas 2007 - 2011	
White-throated Dipper (<i>Cinclus cinclus</i>)	7	31/12/2011	Bird Atlas 2007 - 2011	
Whooper Swan (<i>Cygnus cygnus</i>)	1	31/12/2011	Bird Atlas 2007 - 2011	Protected Species: Wildlife Acts Protected Species: EU Birds Directive Protected Species: EU Birds Directive >> Annex I Bird Species Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
Willow Warbler (<i>Phylloscopus trochilus</i>)	8	05/05/2018	Birds of Ireland	

Kildare County Council

Winter Wren (<i>Troglodytes troglodytes</i>)	13	02/12/2017	Birds of Ireland	
Yellowhammer (<i>Emberiza citrinella</i>)	14	15/04/2020	Birds of Ireland	Protected Species: Wildlife Acts Threatened Species: Birds of Conservation Concern Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
Geophilus flavus	1	01/09/1984	Centipedes of Ireland	
Lithobius (<i>Lithobius</i>) forficatus	1	01/01/1913	Centipedes of Ireland	
Strigamia crassipes	1	01/01/1894	Centipedes of Ireland	
Scots Pine (<i>Pinus sylvestris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bracken (<i>Pteridium aquilinum</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Broad Buckler-fern (<i>Dryopteris dilatata</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hart's-tongue (<i>Phyllitis scolopendrium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Maidenhair Spleenwort (<i>Asplenium trichomanes</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Male-fern (<i>Dryopteris filix-mas</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Polypodium vulgare Senu lato	1	31/12/1999	BSBI tetrad data for Ireland	
Rustyback (<i>Ceterach officinarum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Soft Shield-fern (<i>Polystichum setiferum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wall-rue (<i>Asplenium ruta-muraria</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Alder (<i>Alnus glutinosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
American Willowherb (<i>Epilobium ciliatum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Amphibious Bistort (<i>Persicaria amphibia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Annual Meadow-grass (<i>Poa annua</i>)	3	01/07/2021	Vascular plants: Online Atlas of	

Kildare County Council

			Vascular Plants 2012 Onwards	
Annual Pearlwort (<i>Sagina apetala</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Apple (<i>Malus pumila</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Ash (<i>Fraxinus excelsior</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Autumn Hawkbit (<i>Leontodon autumnalis</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Beaked Hawk's-beard (<i>Crepis vesicaria</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Beech (<i>Fagus sylvatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Biting Stonecrop (<i>Sedum acre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bittersweet (<i>Solanum dulcamara</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Black Bent (<i>Agrostis gigantea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Black Currant (<i>Ribes nigrum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Black Medick (<i>Medicago lupulina</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Black-bindweed (<i>Fallopia convolvulus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Blackthorn (<i>Prunus spinosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bladder Campion (<i>Silene vulgaris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Blue Water-speedwell (<i>Veronica anagallis-aquatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Blunt-flowered Rush (<i>Juncus subnodulosus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bog Stitchwort (<i>Stellaria alsine</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bramble (<i>Rubus fruticosus</i> agg.)	2	19/07/2010	Species Data from the National Vegetation Database	
Branched Bur-reed (<i>Sparganium erectum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bristle Club-rush (<i>Isolepis setacea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Broad-leaved Dock (<i>Rumex obtusifolius</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Broad-leaved Willowherb (<i>Epilobium montanum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Brooklime (<i>Veronica beccabunga</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bugle (<i>Ajuga reptans</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bulbous Rush (<i>Juncus bulbosus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Burnet-saxifrage (<i>Pimpinella saxifraga</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Bush Vetch (<i>Vicia sepium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Butterbur (<i>Petasites hybridus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Callitriche aggregate	1	31/12/1999	BSBI tetrad data for Ireland	
Calystegia sepium subsp. sepium	1	31/12/1999	BSBI tetrad data for Ireland	
Carex divulsa	1	31/12/1999	BSBI tetrad data for Ireland	
Carnation Sedge (<i>Carex panicea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cat's-ear (<i>Hypochaeris radicata</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Charlock (<i>Sinapis arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cleavers (<i>Galium aparine</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Clustered Dock (<i>Rumex conglomeratus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cock's-foot (<i>Dactylis glomerata</i>)	4	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Coltsfoot (<i>Tussilago farfara</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Bent (<i>Agrostis capillaris</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Common Bird's-foot-trefoil (<i>Lotus corniculatus</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Common Butterwort (<i>Pinguicula vulgaris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Chickweed (<i>Stellaria media</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Couch (<i>Elytrigia repens</i>)	2	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	

Kildare County Council

Common Dog-violet (<i>Viola riviniana</i>)	2	19/04/2018	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Common Duckweed (<i>Lemna minor</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Field-speedwell (<i>Veronica persica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Figwort (<i>Scrophularia nodosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Fumitory (<i>Fumaria officinalis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Knapweed (<i>Centaurea nigra</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Common Marsh-bedstraw (<i>Galium palustre subsp. palustre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Milkwort (<i>Polygala vulgaris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Mouse-ear (<i>Cerastium fontanum</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Common Nettle (<i>Urtica dioica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Orache (<i>Atriplex patula</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Poppy (<i>Papaver rhoeas</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Ragwort (<i>Senecio jacobaea</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Common Reed (<i>Phragmites australis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Sorrel (<i>Rumex acetosa</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Common Spike-rush (<i>Eleocharis palustris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Common Spotted-orchid (<i>Dactylorhiza fuchsii</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cow Parsley (<i>Anthriscus sylvestris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cowslip (<i>Primula veris</i>)	3	18/05/2019	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	

Kildare County Council

Crack-willow (<i>Salix fragilis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Creeping Bent (<i>Agrostis stolonifera</i>)	2	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Creeping Buttercup (<i>Ranunculus repens</i>)	4	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Creeping Cinquefoil (<i>Potentilla reptans</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Creeping Thistle (<i>Cirsium arvense</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Crested Dog's-tail (<i>Cynosurus cristatus</i>)	3	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Cuckooflower (<i>Cardamine pratensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Curled Dock (<i>Rumex crispus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Cut-leaved Crane's-bill (<i>Geranium dissectum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Daisy (<i>Bellis perennis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Devil's-bit Scabious (<i>Succisa pratensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Dove's-foot Crane's-bill (<i>Geranium molle</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Elder (<i>Sambucus nigra</i>)	3	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Enchanter's-nightshade (<i>Circaea lutetiana</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Equal-leaved Knotgrass (<i>Polygonum arenastrum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Euphrasia officinalis agg.	1	31/12/1999	BSBI tetrad data for Ireland	
Fairy Flax (<i>Linum catharticum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
False Fox-sedge (<i>Carex otrubae</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
False Oat-grass (<i>Arrhenatherum elatius</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
False-brome (<i>Brachypodium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

<i>sylvaticum</i>)				
Fat-hen (<i>Chenopodium album</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Fen Bedstraw (<i>Galium uliginosum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Fern-grass (<i>Catapodium rigidum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Festuca rubra agg.	1	31/12/1999	BSBI tetrad data for Ireland	
Field Forget-me-not (<i>Myosotis arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Field Maple (<i>Acer campestre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Field Pansy (<i>Viola arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Field Scabious (<i>Knautia arvensis</i>)	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Field-rose (<i>Rosa arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Floating Sweet-grass (<i>Glyceria fluitans</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Fool's-water-cress (<i>Apium nodiflorum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Fragrant Orchid (<i>Gymnadenia conopsea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Garden Privet (<i>Ligustrum ovalifolium</i>)	1	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Germander Speedwell (<i>Veronica chamaedrys</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Giant Fescue (<i>Festuca gigantea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Glaucous Sedge (<i>Carex flacca</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Gooseberry (<i>Ribes uva-crispa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Gorse (<i>Ulex europaeus</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Great Willowherb (<i>Epilobium hirsutum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Greater Plantain (<i>Plantago major</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Grey Sedge (<i>Carex divulsa subsp.</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

<i>divulsa</i>)				
Ground-elder (<i>Aegopodium podagraria</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Groundsel (<i>Senecio vulgaris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Guelder-rose (<i>Viburnum opulus</i>)	2	28/05/2024	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Hairy Bitter-cress (<i>Cardamine hirsuta</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hairy Sedge (<i>Carex hirta</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hairy-brome (<i>Bromopsis ramosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hard Rush (<i>Juncus inflexus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hawthorn (<i>Crataegus monogyna</i>)	3	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Hazel (<i>Corylus avellana</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Heath Bedstraw (<i>Galium saxatile</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Hedge Bindweed (<i>Calystegia sepium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hedge Mustard (<i>Sisymbrium officinale</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hemlock Water-dropwort (<i>Oenanthe crocata</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hemp-agrimony (<i>Eupatorium cannabinum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Herb-Robert (<i>Geranium robertianum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hoary Willowherb (<i>Epilobium parviflorum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Hogweed (<i>Heracleum sphondylium</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Holly (<i>Ilex aquifolium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Honeysuckle (<i>Lonicera periclymenum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Horned Pondweed (<i>Zannichellia palustris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Hybrid Water-cress (<i>Rorippa nasturtium-aquaticum</i> x <i>microphylla</i> = <i>R. x sterilis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Ivy (<i>Hedera helix</i>)	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Ivy-leaved Speedwell (<i>Veronica hederifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Ivy-leaved Toadflax (<i>Cymbalaria muralis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Jointed Rush (<i>Juncus articulatus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Knotgrass (<i>Polygonum aviculare</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Knotted Pearlwort (<i>Sagina nodosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lady's Bedstraw (<i>Galium verum</i>)	3	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Large Bindweed (<i>Calystegia silvatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lesser Burdock (<i>Arctium minus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lesser Hawkbit (<i>Leontodon saxatilis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lesser Marshwort (<i>Apium inundatum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lesser Spearwort (<i>Ranunculus flammula</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Lesser Trefoil (<i>Trifolium dubium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Long-headed Poppy (<i>Papaver dubium</i> subsp. <i>dubium</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Long-stalked Yellow-sedge (<i>Carex viridula</i> subsp. <i>brachyrrhyncha</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Malus sylvestris sens.lat.	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Arrowgrass (<i>Triglochin palustre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Cudweed (<i>Gnaphalium uliginosum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Lousewort (<i>Pedicularis</i>	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

<i>palustris</i>)				
Marsh Ragwort (<i>Senecio aquaticus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Thistle (<i>Cirsium palustre</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Marsh Willowherb (<i>Epilobium palustre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Yellow-cress (<i>Rorippa palustris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh-bedstraw (<i>Galium palustre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh-marigold (<i>Caltha palustris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Meadow Buttercup (<i>Ranunculus acris</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Meadow Fescue (<i>Festuca pratensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Meadow Vetchling (<i>Lathyrus pratensis</i>)	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Meadowsweet (<i>Filipendula ulmaria</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Mimulus aggregate	1	31/12/1999	BSBI tetrad data for Ireland	
Mouse-ear-hawkweed (<i>Pilosella officinarum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Narrow-fruited Water-cress (<i>Rorippa microphylla</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Nipplewort (<i>Lapsana communis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Opium Poppy (<i>Papaver somniferum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Oxeye Daisy (<i>Leucanthemum vulgare</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Pale Persicaria (<i>Persicaria lapathifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Papaver dubium	1	31/12/1999	BSBI tetrad data for Ireland	
Pedunculate Oak (<i>Quercus robur</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Perennial Rye-grass (<i>Lolium perenne</i>)	3	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Perforate St John's-wort (<i>Hypericum perforatum</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Petty Spurge (<i>Euphorbia peplus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Phleum pratense sens.lat.	1	31/12/1999	BSBI tetrad data for Ireland	
Pineappleweed (<i>Matricaria discoidea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Plicate Sweet-grass (<i>Glyceria notata</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Poa pratensis sens.lat.	1	31/12/1999	BSBI tetrad data for Ireland	
Polygonum aviculare agg. sensu lato	1	31/12/1999	BSBI tetrad data for Ireland	
Prickly Sow-thistle (<i>Sonchus asper</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Primrose (<i>Primula vulgaris</i>)	3	19/04/2018	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Procumbent Pearlwort (<i>Sagina procumbens</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Purple Moor-grass (<i>Molinia caerulea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Quaking-grass (<i>Briza media</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Quercus petraea x robur = Q. x rosacea	1	31/12/1999	BSBI tetrad data for Ireland	
Raspberry (<i>Rubus idaeus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Red Bartsia (<i>Odontites vernus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Red Clover (<i>Trifolium pratense</i>)	4	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Red Dead-nettle (<i>Lamium purpureum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Red Fescue (<i>Festuca rubra</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Redshank (<i>Persicaria maculosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Reed Canary-grass (<i>Phalaris arundinacea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Ribwort Plantain (<i>Plantago lanceolata</i>)	3	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Rigid Hornwort (<i>Ceratophyllum demersum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Rorippa nasturtium-aquaticum agg.	1	31/12/1999	BSBI tetrad data for Ireland	
Rosa canina agg.	1	31/12/1999	BSBI tetrad data for Ireland	
Rough Meadow-grass (<i>Poa trivialis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Rubus ulmifolius	1	31/12/1999	BSBI tetrad data for Ireland	
Rumex crispus x obtusifolius = R. x pratensis	1	31/12/1999	BSBI tetrad data for Ireland	
Rumex sanguineus	1	31/12/1999	BSBI tetrad data for Ireland	
Russian Comfrey (<i>Symphytum officinale</i> x <i>asperum</i> = <i>S. x uplandicum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Rusty Willow (<i>Salix cinerea</i> subsp. <i>oleifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Salix cinerea	1	31/12/1999	BSBI tetrad data for Ireland	
Sanicle (<i>Sanicula europaea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Scarlet Pimpernel (<i>Anagallis arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Selfheal (<i>Prunella vulgaris</i>)	3	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Sheep's Sorrel (<i>Rumex acetosella</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Sheep's-fescue (<i>Festuca ovina</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Shepherd's-purse (<i>Capsella bursa-pastoris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Sherard's Downy-rose (<i>Rosa sherardii</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Short-fruited Willowherb (<i>Epilobium obscurum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Silene vulgaris subsp. vulgaris	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Silverweed (<i>Potentilla anserina</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Slender Sandwort (<i>Arenaria serpyllifolia</i> subsp. <i>leptoclados</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Slender Speedwell (<i>Veronica filiformis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Small-leaved Sweet-briar (<i>Rosa agrestis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Smooth Hawk's-beard (<i>Crepis capillaris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Smooth Meadow-grass (<i>Poa pratensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Smooth Sow-thistle (<i>Sonchus oleraceus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Snowberry (<i>Symphoricarpos albus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Soft-brome (<i>Bromus hordeaceus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Soft-rush (<i>Juncus effusus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Spear Thistle (<i>Cirsium vulgare</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Square-stalked St John's-wort (<i>Hypericum tetrapterum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Sticky Mouse-ear (<i>Cerastium glomeratum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Sun Spurge (<i>Euphorbia helioscopia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Sweet Vernal-grass (<i>Anthoxanthum odoratum</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Sycamore (<i>Acer pseudoplatanus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Tall Fescue (<i>Festuca arundinacea</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Taraxacum aggregate	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Thale Cress (<i>Arabidopsis thaliana</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Thyme-leaved Sandwort (<i>Arenaria serpyllifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Thyme-leaved Speedwell (<i>Veronica serpyllifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Timothy (<i>Phleum pratense</i>)	2	19/07/2010	Species Data from the National Vegetation Database	
Toad Rush (<i>Juncus bufonius</i>)	2	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

Tormentil (<i>Potentilla erecta</i>)	1	19/07/2010	Species Data from the National Vegetation Database	
Tufted Forget-me-not (<i>Myosotis laxa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Tufted Hair-grass (<i>Deschampsia cespitosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Tufted Vetch (<i>Vicia cracca</i>)	2	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Upright Hedge-parsley (<i>Torilis japonica</i>)	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Vicia sativa	1	31/12/1999	BSBI tetrad data for Ireland	
Wall Speedwell (<i>Veronica arvensis</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water Figwort (<i>Scrophularia auriculata</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water Forget-me-not (<i>Myosotis scorpioides</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water Mint (<i>Mentha aquatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water-cress (<i>Rorippa nasturtium-aquaticum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water-pepper (<i>Persicaria hydropiper</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wavy Bitter-cress (<i>Cardamine flexuosa</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
White Champion (<i>Silene latifolia</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
White Clover (<i>Trifolium repens</i>)	4	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
White Dead-nettle (<i>Lamium album</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
White Stonecrop (<i>Sedum album</i>)	3	13/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
White Willow (<i>Salix alba</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Whorl-grass (<i>Catabrosa aquatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Angelica (<i>Angelica sylvestris</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Carrot (<i>Daucus carota subsp.</i>)	1	31/12/1999	BSBI tetrad data for Ireland	

Kildare County Council

<i>carota</i>)				
Wild Carrot (<i>Daucus carota</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Plum (<i>Prunus domestica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Privet (<i>Ligustrum vulgare</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Strawberry (<i>Fragaria vesca</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wild Thyme (<i>Thymus polytrichus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Winter Heliotrope (<i>Petasites fragrans</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wood Avens (<i>Geum urbanum</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wood Speedwell (<i>Veronica montana</i>)	2	13/07/2012	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Wood-sedge (<i>Carex sylvatica</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Wych Elm (<i>Ulmus glabra</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Yarrow (<i>Achillea millefolium</i>)	4	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Yellow Iris (<i>Iris pseudacorus</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Yellow Oat-grass (<i>Trisetum flavescens</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Yellow Sedge (<i>Carex viridula</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Yellow-juiced Poppy (<i>Papaver dubium subsp. lecoqii</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Yorkshire-fog (<i>Holcus lanatus</i>)	5	01/07/2021	Vascular plants: Online Atlas of Vascular Plants 2012 Onwards	
Octospora musci-muralis	1	19/12/1990	Fungal Records for Ireland	
Field Horsetail (<i>Equisetum arvense</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Marsh Horsetail (<i>Equisetum palustre</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
Water Horsetail (<i>Equisetum fluviatile</i>)	1	31/12/1999	BSBI tetrad data for Ireland	
7-spot Ladybird (<i>Coccinella septempunctata</i>)	3	16/10/2024	Ladybirds of Ireland	
Black Sexton Beetle (<i>Nicrophorus humator</i>)	1	17/04/2023	Carrion Beetles of Ireland	
Elmis aenea	1	01/05/2007	River Biologists' Database (EPA)	
Limnius volckmari	1	01/05/2007	River Biologists' Database (EPA)	

Kildare County Council

Comma (<i>Polygonia c-album</i>)	1	29/07/2023	Butterflies of Ireland post 2021	
Green-veined White (<i>Pieris napi</i>)	6	01/06/2021	Butterflies of Ireland pre-2022	
Marsh Fritillary (<i>Euphydryas aurinia</i>)	6	31/12/1982	All Ireland Marsh Fritillary Database	Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex II Threatened Species: Vulnerable
Meadow Brown (<i>Maniola jurtina</i>)	3	18/06/2018	Butterflies of Ireland pre-2022	
Orange-tip (<i>Anthocharis cardamines</i>)	2	01/05/2020	Butterflies of Ireland pre-2022	
Ringlet (<i>Aphantopus hyperantus</i>)	1	31/12/1976	Distribution Atlas of Butterflies in Ireland 1979 (<i>An Foras Forbartha</i>)	
Small Copper (<i>Lycaena phlaeas</i>)	1	01/06/2021	Butterflies of Ireland pre-2022	
Small Tortoiseshell (<i>Aglais urticae</i>)	5	01/09/2021	Butterflies of Ireland pre-2022	
Small White (<i>Pieris rapae</i>)	2	01/09/2021	Butterflies of Ireland pre-2022	
Speckled Wood (<i>Pararge aegeria</i>)	2	14/05/2021	Butterflies of Ireland pre-2022	
Agonopterix yeatiana	1	16/04/2023	Moths Ireland	
Beaded Chestnut (<i>Agrochola lychnidis</i>)	1	24/09/2023	Moths Ireland	
Brimstone Moth (<i>Opisthograptis luteolata</i>)	1	24/05/2023	Moths Ireland	
Broken-barred Carpet (<i>Electrophaes corylata</i>)	1	24/05/2023	Moths Ireland	
Brown Silver-line (<i>Petrophora chlorosata</i>)	1	24/05/2023	Moths Ireland	
Buff-tip (<i>Phalera bucephala</i>)	1	24/05/2023	Moths Ireland	
Chestnut (<i>Conistra vaccinii</i>)	1	16/04/2023	Moths Ireland	
Clay Triple-lines (<i>Cyclophora linearia</i>)	1	24/05/2023	Moths Ireland	
Clouded Drab (<i>Orthosia incerta</i>)	1	16/04/2023	Moths Ireland	
Clouded Silver (<i>Lomographa temerata</i>)	1	24/05/2023	Moths Ireland	
Clouded-bordered Brindle (<i>Apamea crenata</i>)	1	24/05/2023	Moths Ireland	
Common Marbled Carpet (<i>Chloroclysta truncata</i>)	2	24/09/2023	Moths Ireland	

Kildare County Council

Common Quaker (<i>Orthosia cerasi</i>)	1	16/04/2023	Moths Ireland	
Common Swift (<i>Hepialus lupulinus</i>)	1	24/05/2023	Moths Ireland	
Double-striped Pug (<i>Gymnoscelis rufifasciata</i>)	1	16/04/2023	Moths Ireland	
Early Grey (<i>Xylocampa areola</i>)	1	16/04/2023	Moths Ireland	
Esperia sulphurella	1	24/05/2023	Moths Ireland	
Flame Carpet (<i>Xanthorhoe designata</i>)	1	24/05/2023	Moths Ireland	
Garden Carpet (<i>Xanthorhoe fluctuata</i>)	1	24/05/2023	Moths Ireland	
Green Carpet (<i>Colostygia pectinataria</i>)	1	24/05/2023	Moths Ireland	
Hebrew Character (<i>Orthosia gothica</i>)	1	16/04/2023	Moths Ireland	
Least Black Arches (<i>Nola confusalis</i>)	1	24/05/2023	Moths Ireland	
May Highflyer (<i>Hydriomena impluviata</i>)	1	24/05/2023	Moths Ireland	
Mottled Pug (<i>Eupithecia exiguata</i>)	1	24/05/2023	Moths Ireland	
Muslin Moth (<i>Diaphora mendica</i>)	2	24/05/2023	Moths Ireland	
Ochreous Pug (<i>Eupithecia indigata</i>)	1	24/05/2023	Moths Ireland	
Pale Pinion (<i>Lithophane hepatica</i>)	1	16/04/2023	Moths Ireland	
Pale Tussock (<i>Calliteara pudibunda</i>)	1	24/05/2023	Moths Ireland	
Pebble Prominent (<i>Notodonta ziczac</i>)	1	24/05/2023	Moths Ireland	
Pink-barred Sallow (<i>Xanthia togata</i>)	1	24/09/2023	Moths Ireland	
Powdered Quaker (<i>Orthosia gracilis</i>)	1	16/04/2023	Moths Ireland	
Red-green Carpet (<i>Chloroclysta siterata</i>)	2	24/09/2023	Moths Ireland	
Rosy Rustic (<i>Hydraecia micacea</i>)	1	24/09/2023	Moths Ireland	
Scalloped Hazel (<i>Odontopera bidentata</i>)	1	24/05/2023	Moths Ireland	
Scorched Wing (<i>Plagodis dolabraria</i>)	1	24/05/2023	Moths Ireland	
Scrobipalpa costella	1	16/04/2023	Moths Ireland	
Shoulder Stripe (<i>Anticlea badiata</i>)	1	16/04/2023	Moths Ireland	
Silver-ground Carpet (<i>Xanthorhoe montanata</i>)	1	24/05/2023	Moths Ireland	

Kildare County Council

Small Angle Shades (<i>Euplexia lucipara</i>)	1	24/05/2023	Moths Ireland	
Small Phoenix (<i>Ecliptopera silaceata</i>)	1	24/05/2023	Moths Ireland	
Small Quaker (<i>Orthosia cruda</i>)	1	16/04/2023	Moths Ireland	
Small Square-spot (<i>Diarsia rubi</i>)	1	24/05/2023	Moths Ireland	
Small Wainscot (<i>Chortodes pygmina</i>)	1	24/09/2023	Moths Ireland	
Spruce Carpet (<i>Thera britannica</i>)	1	24/05/2023	Moths Ireland	
Stigmella aurella	1	16/04/2023	Moths Ireland	
Streamer (<i>Anticlea derivata</i>)	1	16/04/2023	Moths Ireland	
White Ermine (<i>Spilosoma lubricipeda</i>)	1	24/05/2023	Moths Ireland	
White-pinion Spotted (<i>Lomographa bimaculata</i>)	1	24/05/2023	Moths Ireland	
Gorse Shieldbug (<i>Piezodorus lituratus</i>)	1	05/05/2018	True Bugs (<i>Heteroptera</i>) of Ireland	
Even Scalewort (<i>Radula complanata</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Mueller's Pouchwort (<i>Calypogeia muelleriana</i>)	1	31/12/1949	Bryophytes of Ireland	Threatened Species: Least concern
Notched Pouchwort (<i>Calypogeia arguta</i>)	1	30/09/1958	Bryophytes of Ireland	Threatened Species: Least concern
Two-horned Pincerwort (<i>Cephalozia bicuspidata</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Ancylus fluviatilis	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Arion (<i>Arion</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Arion (<i>Arion</i>) vulgaris	1	30/09/1984	All Ireland Non-Marine Molluscan Database	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Arion (<i>Carinarion</i>) circumscriptus	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Arion (<i>Kobeltia</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Brown Lipped Snail (<i>Cepaea</i> (<i>Cepaea</i>))	2	30/09/1984	All Ireland Non-Marine Molluscan	

Kildare County Council

nemoralis)			Database	
Budapest Slug (<i>Tandonia budapestensis</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Cellar Snail (<i>Oxychilus (Oxychilus) cellarius</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Clear Glass Snail (<i>Aegopinella pura</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Columella	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Common Chrysalis Snail (<i>Lauria (Lauria) cylindracea</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Common Garden Snail (<i>Cornu aspersum</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Crystal Snail (<i>Vitrea crystallina</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Darparnaud's Glass Snail (<i>Oxychilus (Oxychilus) draparnaudi</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Dusky Slug (<i>Arion (Mesarion) subfuscus</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Dwarf Pond Snail (<i>Galba (Galba) truncatula</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Dwarf Snail (<i>Punctum (Punctum) pygmaeum</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Eccentric Grass Snail (<i>Vallonia cf. excentrica</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
English Chrysalis Snail (<i>Leiostryla (Leiostryla) anglica</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Threatened Species: Vulnerable
Euconulus	1	24/09/1977	All Ireland Non-Marine Molluscan Database	

Kildare County Council

Garlic Snail (<i>Oxychilus (Oxychilus) alliarius</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Giant Pea Shell (<i>Pisidium amnicum</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Great Grey Slug (<i>Limax maximus</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Hairy Snail (<i>Trochulus (Trochulus) hispida</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Heath Snail (<i>Helicella itala</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Threatened Species: Vulnerable
Hedgehog Slug (<i>Arion (Kobeltia) intermedius</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Horny Orb Mussel (<i>Sphaerium corneum</i>)	1	30/09/1984	All Ireland Non-Marine Molluscan Database	
Jenkins' Spire Snail (<i>Potamopyrgus antipodarum</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Invasive Species: Invasive Species Invasive Species: Invasive Species >> Medium Impact Invasive Species
Keeled Ramshorn (<i>Planorbis carinatus</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Large Amber Snail (<i>Succinea putris</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Least Slippery Snail (<i>Cochlicopa cf. lubricella</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Lesser Bulin (<i>Merdigera obscura</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Threatened Species: Endangered
Long-toothed Herald Snail (<i>Carychium tridentatum</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Milky Crystal Snail (<i>Vitrea contracta</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Netted Slug (<i>Deroceras (Deroceras) reticulatum</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	

Kildare County Council

Pellucid Glass Snail (<i>Vitrina pellucida</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Prickly Snail (<i>Acanthinula aculeata</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Threatened Species: Near threatened
Ribbed Grass Snail (<i>Vallonia costata</i>)	1	30/09/1984	All Ireland Non-Marine Molluscan Database	
Rock Snail (<i>Pyramidula pusilla</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Rounded Snail (<i>Discus (Gonyodiscus) rotundatus</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Slippery Moss Snail (<i>Cochlicopa cf. lubrica</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Smooth Glass Snail (<i>Aegopinella nitidula</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Strawberry Snail (<i>Trochulus (Trochulus) striolatus</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Striated Whorl Snail (<i>Vertigo (Vertigo) substriata</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	Threatened Species: Near threatened
Tree Slug (<i>Lehmannia marginata</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
Twisted Ramshorn (<i>Bathyomphalus contortus</i>)	1	30/09/1984	All Ireland Non-Marine Molluscan Database	
Two-toothed Door Snail (<i>Clausilia (Clausilia) bidentata</i>)	2	30/09/1984	All Ireland Non-Marine Molluscan Database	
Wandering Snail (<i>Radix balthica</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
White Ramshorn (<i>Gyraulus (Gyraulus) albus</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan Database	
White-lipped Snail (<i>Cepaea (Cepaea) hortensis</i>)	1	30/09/1984	All Ireland Non-Marine Molluscan Database	
Yellow Slug (<i>Limacus flavus</i>)	1	24/09/1977	All Ireland Non-Marine Molluscan	

Kildare County Council

			Database	
Bank Haircap (<i>Polytrichum formosum</i>)	1	30/09/1958	Bryophytes of Ireland	
Big Shaggy-moss (<i>Rhytidiadelphus triquetrus</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Bird's-claw Beard-moss (<i>Barbula unguiculata</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Bryum dichotomum	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Capillary Thread-moss (<i>Bryum capillare</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Chalk Comb-moss (<i>Ctenidium molluscum</i>)	1	17/09/1969	Bryophytes of Ireland	
Common Pocket-moss (<i>Fissidens taxifolius</i>)	1	17/09/1969	Bryophytes of Ireland	
Common Tamarisk-moss (<i>Thuidium tamariscinum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Ditrichum flexicaule sensu lato	1	17/09/1969	Bryophytes of Ireland	
Don's Thread-moss (<i>Bryum donianum</i>)	3	31/12/1958	Bryophytes of Ireland	Threatened Species: Least concern
Fallacious Beard-moss (<i>Didymodon fallax</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Fine-leaved Marsh Feather-moss (<i>Campyliadelphus elodes</i>)	1	03/05/1949	Bryophytes of Ireland	Threatened Species: Near threatened
Flat Neckera (<i>Neckera complanata</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Fringed Bog-moss (<i>Sphagnum fimbriatum</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Glittering Wood-moss (<i>Hylocomium splendens</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Golden Feather-moss (<i>Campyliadelphus chrysophyllus</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Green-tufted Stubble-moss (<i>Weissia controversa</i>)	1	17/09/1969	Bryophytes of Ireland	
Hair-pointed Feather-moss	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern

Kildare County Council

<i>(Cirriphyllum piliferum)</i>				
Hart's-tongue Thyme-moss (<i>Plagiomnium undulatum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Hasselquist's Hyssop (<i>Entosthodon fascicularis</i>)	2	31/12/1949	Bryophytes of Ireland	Threatened Species: Near threatened
Isothecium myosuroides var. myosuroides	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Lateral Cryphaea (<i>Cryphaea heteromalla</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Lesser Cow-horn Bog-moss (<i>Sphagnum inundatum</i>)	1	03/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Lesser Pocket-moss (<i>Fissidens bryoides</i> var. <i>bryoides</i>)	1	30/04/1949	Bryophytes of Ireland	Threatened Species: Least concern
Little Shaggy-moss (<i>Rhytidiadelphus loreus</i>)	1	30/09/1958	Bryophytes of Ireland	Threatened Species: Least concern
Long-shanked Pincushion (<i>Ptychomitrium polyphyllum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Montagne's Cylinder-moss (<i>Entodon concinnus</i>)	1	30/04/1949	Bryophytes of Ireland	Threatened Species: Least concern
Neat Feather-moss (<i>Scleropodium purum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Nodding Thread-moss (<i>Pohlia nutans</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Philibert's Tamarisk-moss (<i>Thuidium assimile</i>)	1	30/04/1949	Bryophytes of Ireland	Threatened Species: Least concern
Pink-fruited Thread-moss (<i>Pohlia melanodon</i>)	1	30/04/1949	Bryophytes of Ireland	Threatened Species: Least concern
Pointed Spear-moss (<i>Calliergonella cuspidata</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Redshank (<i>Ceratodon purpureus</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Red-stemmed Feather-moss (<i>Pleurozium schreberi</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern

Kildare County Council


Ringless Hook-moss (<i>Warnstorfia exannulata</i>)	1	31/12/1993	Bryophytes of Ireland	
Rock Pocket-moss (<i>Fissidens dubius</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Rough-stalked Feather-moss (<i>Brachythecium rutabulum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Rusty Beard-moss (<i>Didymodon ferrugineus</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Schistidium apocarpum sensu lato	1	17/09/1969	Bryophytes of Ireland	
Silky Wall Feather-moss (<i>Homalothecium sericeum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Silver-moss (<i>Bryum argenteum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Slender Haircap (<i>Polytrichum longisetum</i>)	1	31/05/1949	Bryophytes of Ireland	
Spiky Bog-moss (<i>Sphagnum squarrosum</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
Spiral Extinguisher-moss (<i>Encalypta streptocarpa</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Springy Turf-moss (<i>Rhytidiadelphus squarrosus</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Supine Plait-moss (<i>Hypnum cupressiforme</i> var. <i>resupinatum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Variable Forklet-moss (<i>Dicranella varia</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Wall Screw-moss (<i>Tortula muralis</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Wavy Beard-moss (<i>Didymodon sinuosus</i>)	1	31/05/1949	Bryophytes of Ireland	Threatened Species: Least concern
White-tipped Bristle-moss (<i>Orthotrichum diaphanum</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Yellow Feather-moss (<i>Homalothecium lutescens</i>)	1	17/09/1969	Bryophytes of Ireland	Threatened Species: Least concern
Eastern Grey Squirrel (<i>Sciurus</i>)	3	01/09/2018	Mammals of Ireland 2016-2025	Invasive Species: Invasive Species Invasive

<i>carolinensis</i>)				Species: Invasive Species >> High Impact Invasive Species Invasive Species: Invasive Species >> EU Regulation No. 1143/2014 Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland)
Eurasian Badger (<i>Meles meles</i>)	10	23/03/2013	Atlas of Mammals in Ireland 2010-2015	Protected Species: Wildlife Acts
European Otter (<i>Lutra lutra</i>)	1	31/08/2010	Atlas of Mammals in Ireland 2010-2015	Protected Species: EU Habitats Directive Protected Species: EU Habitats Directive >> Annex II Protected Species: EU Habitats Directive >> Annex IV Protected Species: Wildlife Acts
Hazel Dormouse (<i>Muscardinus avellanarius</i>)	1	08/01/2015	Atlas of Mammals in Ireland 2010-2015	
Irish Hare (<i>Lepus timidus subsp. hibernicus</i>)	1	28/10/2019	Mammals of Ireland 2016-2025	
Red Fox (<i>Vulpes vulpes</i>)	6	29/09/2018	Mammals of Ireland 2016-2025	
Sika Deer (<i>Cervus nippon</i>)	1	27/06/2013	Atlas of Mammals in Ireland 2010-2015	Invasive Species: Invasive Species Invasive Species: Invasive Species >> High Impact Invasive Species Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland) Protected Species: Wildlife Acts
West European Hedgehog (<i>Erinaceus europaeus</i>)	6	22/09/2023	Hedgehogs of Ireland	Protected Species: Wildlife Acts

Appendix 2: Pictures of the site

Fig no.	Description	Image
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1	Hedge and verges at north end of route, by the monument.	
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2	Grassland adjacent to road with occasional patches of <i>J. effusus</i> .	
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3	Existing car parking bay, which will be upgraded.	
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4	Area of rank GA2 south of parking area	
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5	Large field to the east of road.	
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