



Appendix IV
Desk Study

Contents

Appendix IV: Desk Study	1
1.1 Desk Study Results	1
1.2 References:	11

Appendix IV: Desk Study

1.1 Desk Study Results

Desktop records of protected, rare, or other notable flora and fauna species within the vicinity of the Proposed Scheme are listed below in Table 1: **Records of Protected, Red-listed or Notable Flora Recorded from the Desk Study in the Vicinity of the Study Area**

Plant species which are legally protected under the Flora (Protection) Order, 2022 and / or are listed as Critically Endangered, Endangered or Vulnerable on Ireland Red List No. 10: Vascular Plants (Wyse Jackson *et al.*, 2016) and Ireland Red List No. 8 Bryophytes (Lockhart *et al.*, 2012) are listed.

In relation to amphibian, reptile and mammal species those which are protected under the Wildlife Acts, the Habitats Directive and / or are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 12: Terrestrial Mammals (Marnell *et al.*, 2019); Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish (King *et al.*, 2011).

In the case of bird species, only those species listed in Annex I of the Birds Directive or on the Birds of Conservation Concern in Ireland (BoCCI) Red List are included in the table below.

For invertebrate species, those which are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 4 – Butterflies (Regan *et al.*, 2010); Ireland Red List No.6: Damselflies & Dragonflies (Nelson *et al.*, 2011); Ireland Red List No. 2 – Non-Marine Molluscs.(Byrne *et al.*, 2009); Ireland Red List No. 1 – Water beetles (Foster *et al.*, 2009); Ireland Red List No. 9: Macro-moths (Allen *et al.*, 2016); Ireland Red List No. 7: Mayflies (Kelly-Quinn *et al.*, 2012); Ireland Red List No. 13: Stoneflies (Feeley *et al.*, 2020); and Regional Red List of Irish Bees (Fitzpatrick *et al.* 2006).

Desktop records of invasive plant species which are scheduled under articles 49 and 50 of the Birds and Habitats Regulations are considered as a potential threat in respect of biodiversity. S.I.477 species within the vicinity of the Proposed Scheme are listed in Table 2.

Table 1: Records of Protected, Red-listed or Notable Flora Recorded from the Desk Study in the Vicinity of the Study Area

Common Name / Scientific name	Legal Status	Red List Status	Source
Plants			
Betony <i>Betonica officinalis</i>	FPO	Near threatened	NBDC online database record
Black Horehound <i>Ballota nigra</i>	n/a	Near threatened	NBDC online database record
Blue Fleabane <i>Erigeron acer</i>	n/a	Least concern	NBDC online database record, NPWS Consultation 2021,
Blunt-fruited Pottia <i>Tortula modica</i>	n/a	Vulnerable	NBDC online database record
Chalk Screw-moss <i>Tortula vahliana</i>	n/a	Vulnerable	NBDC online database record
Common Extinguisher-moss <i>Encalypta vulgaris</i>	n/a	Near threatened	NBDC online database record
Common Gromwell <i>Lithospermum officinale</i>	n/a	Near threatened	NBDC online database record
Common Sorrel <i>Rumex acetosa</i>	n/a	Near threatened	NBDC online database record
Dittander <i>Lepidium latifolium</i>	n/a	Vulnerable	NBDC online database record
Dwarf Mallow <i>Malva neglecta</i>	n/a	Near threatened	NBDC online database record
Fringed Heartwort <i>Ricciocarpos natans</i>	n/a	Near threatened	NBDC online database record
Corn Marigold <i>Glebionis segetum</i>	n/a	Near threatened	NBDC online database record
Great Burnet <i>Sanguisorba officinalis</i>	FPO	Vulnerable	NBDC online database record
Greater Knapweed <i>Centaurea scabiosa</i>	n/a	Near threatened	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Hairy Violet <i>Viola hirta</i>	FPO	Vulnerable	NBDC online database record NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2021-2025
Irish Whitebeam <i>Sorbus hibernica</i>	n/a	Vulnerable	NBDC online database record
Lance-leaved Pottia <i>Tortula lanceola</i>	n/a	Critically endangered	NBDC online database record
Meadow Barley <i>Hordeum secalinum</i>	FPO	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
Meadow Crane's-bill <i>Geranium pratense</i>	n/a	Vulnerable	NBDC online database record, NPWS Consultation 2021,
Opposite-leaved Pondweed <i>Groenlandia densa</i>	FPO	Near threatened	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Oval-leaved Pottia <i>Pterygoneurum ovatum</i>	n/a	Regionally extinct	NBDC online database record, NPWS Consultation 2021,
Pale Flax <i>Linum bienne</i>	n/a	Near threatened	NBDC online database record
Purple Spurge <i>Euphorbia pepelis</i>	n/a	Regionally extinct	NBDC online database record
Rigid Aloe-moss <i>Aloina rigida</i>	n/a	Regionally extinct	NBDC online database record
Round-leaved Crane's-bill <i>Geranium rotundifolium</i>	n/a	Least concern	NBDC online database record
Sausage Beard-moss <i>Didymodon tomaculosus</i>	n/a	Vulnerable	NBDC online database record
Shady Beard-moss <i>Didymodon umbrosus</i>	n/a	Vulnerable	NBDC online database record
Small Cudweed <i>Filago minima</i>	FPO	Near threatened	NBDC online database record
Smooth Brome <i>Bromus racemosus</i>	n/a	Near threatened	NBDC online database record
Spiral Chalk-moss <i>Pterygoneurum lamellatum</i>	n/a	Regionally extinct	NBDC online database record
Spring Vetch <i>Vicia lathyroides</i>	n/a	Least concern	NBDC online database record
Starke's Pottia <i>Microbryum starckeanum</i>	n/a	Regionally extinct	NBDC online database record
Tall Aloe-moss <i>Aloina ambigua</i>	n/a	Endangered	NBDC online database record
Tiny Feather-moss <i>Amblystegium confervoides</i>	n/a	Near threatened	NBDC online database record
Tubular Water-dropwort <i>Oenanthe fistulosa</i>	n/a	Near threatened	NBDC online database record
Tufted Feather-moss <i>Scleropodium cespitans</i>	n/a	Near threatened	NBDC online database record
Twisting Thread-moss <i>Bryum torquescens</i>	n/a	Vulnerable	NBDC online database record
Upright Brome <i>Bromopsis erecta</i>	n/a	Near threatened	NBDC online database record
Water-violet <i>Hottonia palustris</i>	n/a	Critically endangered	NBDC online database record
Mammals			
Brown Long eared Bat <i>Plecotus auritus</i>	HD IV, WA	Least concern	NBDC online database record Dublin City Biodiversity Action Plan 2021-2025
Common Porpoise <i>Phocoena phocoena</i>	HD II, HD V, WA	Not Evaluated	NBDC online database record
Daubenton's Bat <i>Myotis daubentonii</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
Eurasian Badger <i>Meles meles</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Eurasian Pygmy Shrew <i>Sorex minutus</i>	WA	Least concern	NBDC online database record
Eurasian Red Squirrel <i>Sciurus vulgaris</i>	WA	Least concern	NBDC online database record
European Otter <i>Lutra lutra</i>	HD II, HD IV, WA	Least concern	NBDC online database record
Grey Seal <i>Halichoerus grypus</i>	HD II, HD V, WA	Least concern	NBDC online database record
Irish Hare <i>Lepus timidus subsp. hibernicus</i>	WA	Least concern	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Lesser Noctule <i>Nyctalus leisleri</i>	HD IV, WA	Least concern	NBDC online database record
Nathusius's Pipistrelle <i>Pipistrellus nathusii</i>	HD IV, WA	Least concern	NBDC online database record
Natterer's Bat <i>Myotis nattereri</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Pine Marten <i>Martes martes</i>	HD V, WA	Least concern	NBDC online database record
Pipistrelle <i>Pipistrellus pipistrellus sensu lato</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Soprano Pipistrelle <i>Pipistrellus pygmaeus</i>	HD IV, WA	Least concern	NBDC online database record
European Rabbit <i>Oryctolagus cuniculus</i>	WA	Least concern	NBDC online database record
Striped Dolphin <i>Stenella coeruleoalba</i>	HD IV, WA	Not Evaluated	NBDC online database record
Whiskered Bat <i>Myotis mystacinus</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Wolf <i>Canis lupus</i>	n/a	Regionally extinct	NBDC online database record
House Mouse <i>Mus musculus</i>	WA	Least concern	NBDC online database record
Wood Mouse <i>Apodemus sylvaticus</i>	WA	Least concern	NBDC online database record
Birds			
Alpine Swift <i>Apus melba</i>	WA	n/a	NBDC online database record
American Golden Plover <i>Pluvialis dominica</i>	WA	n/a	NBDC online database record
American Herring Gull <i>Larus smithsonianus</i>	WA	n/a	NBDC online database record
Arctic Tern <i>Sterna paradisaea</i>	SCI, BD I, WA	Amber	NBDC online database record
Baird's Sandpiper <i>Calidris bairdii</i>	WA	n/a	NBDC online database record
Bar-headed Goose <i>Anser indicus</i>	WA	n/a	NBDC online database record
Barn Owl <i>Tyto alba</i>	WA	Red	NBDC online database record
Barn Swallow <i>Hirundo rustica</i>	WA	Amber	NBDC online database record
Barnacle Goose <i>Branta leucopsis</i>	SCI, BD I, WA	Amber	NBDC online database record
Bar-tailed Godwit <i>Limosa lapponica</i>	SCI, BD I, WA	Red	NBDC online database record
Black Brant <i>Branta bernicla subsp. nigricans</i>	WA	Green	NBDC online database record
Black Guillemot <i>Cephus grylle</i>	WA	Amber	NBDC online database record
Black Redstart <i>Phoenicurus ochruros</i>	WA	Green	NBDC online database record
Black Swan <i>Cygnus atratus</i>	WA	n/a	NBDC online database record
Black-billed Magpie <i>Pica pica</i>	WA	Green	NBDC online database record
Blackcap <i>Sylvia atricapilla</i>	WA	Green	NBDC online database record
Black-headed Gull <i>Larus ridibundus</i>	SCI, WA	Amber	NBDC online database record
Black-legged Kittiwake <i>Rissa tridactyla</i>	SCI, WA	Red	NBDC online database record
Black-tailed Godwit <i>Limosa limosa</i>	SCI, WA	Red	NBDC online database record
Blue Tit <i>Cyanistes caeruleus</i>	WA	Green	NBDC online database record
Blue-winged Teal <i>Anas discors</i>	WA	n/a	NBDC online database record
Bohemian Waxwing <i>Bombycilla garrulus</i>	WA	Green	NBDC online database record
Bonaparte's Gull <i>Larus philadelphia</i>	WA	n/a	NBDC online database record
Brambling <i>Fringilla montifringilla</i>	WA	Green	NBDC online database record
Brent Goose <i>Branta bernicla</i>	WA	Amber	NBDC online database record
Carrion Crow <i>Corvus corone</i>	WA	Green	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Carrion/Hooded Crow <i>Corvus corone</i> agg.	WA	Green	NBDC online database record
Chaffinch <i>Fringilla coelebs</i>	WA	Green	NBDC online database record
Coal Tit <i>Periparus ater</i>	WA	Green	NBDC online database record
Common Blackbird <i>Turdus merula</i>	WA	Green	NBDC online database record
Common Bullfinch <i>Pyrrhula pyrrhula</i>	WA	Green	NBDC online database record
Common Buzzard <i>Buteo buteo</i>	WA	Green	NBDC online database record
Common Chiffchaff <i>Phylloscopus collybita</i>	WA	Green	NBDC online database record
Common Coot <i>Fulica atra</i>	SCI, WA	Amber	NBDC online database record
Common Cuckoo <i>Cuculus canorus</i>	WA	Green	NBDC online database record
Common Goldeneye <i>Bucephala clangula</i>	SCI, BD II(II), WA	Red	NBDC online database record
Common Grasshopper Warbler <i>Locustella naevia</i>	WA	Green	NBDC online database record
Common Greenshank <i>Tringa nebularia</i>	SCI, WA	Green	NBDC online database record
Common Guillemot <i>Uria aalge</i>	SCI, WA	Amber	NBDC online database record
Common Kestrel <i>Falco tinnunculus</i>	WA	Red	NBDC online database record
Common Kingfisher <i>Alcedo atthis</i>	SCI, BD I, WA	Amber	NBDC online database record
Common Linnet <i>Carduelis cannabina</i>	WA	Amber	NBDC online database record
Common Moorhen <i>Gallinula chloropus</i>	WA	Green	NBDC online database record
Common Pheasant <i>Phasianus colchicus</i>	BD II(I) BD III(I), WA	Green	NBDC online database record
Common Pochard <i>Aythya ferina</i>	SCI, WA	Red	NBDC online database record
Common Raven <i>Corvus corax</i>	WA	Green	NBDC online database record
Common Redshank <i>Tringa totanus</i>	SCI, WA	Red	NBDC online database record
Common Sandpiper <i>Actitis hypoleucos</i>	WA	Amber	NBDC online database record
Common Shelduck <i>Tadorna tadorna</i>	SCI, WA	Amber	NBDC online database record
Common Snipe <i>Gallinago gallinago</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
Common Starling <i>Sturnus vulgaris</i>	WA	Amber	NBDC online database record
Common Swift <i>Apus apus</i>	WA	Red	NBDC online database record
Common Tern <i>Sterna hirundo</i>	SCI, BD I, WA	Amber	NBDC online database record
Common Whitethroat <i>Sylvia communis</i>	WA	Green	NBDC online database record
Common Wood Pigeon <i>Columba palumbus</i>	BD II(I) BD III(I), WA	Green	NBDC online database record
Corn Crake <i>Crex crex</i>	SCI, BD I, WA	Red	NBDC online database record
Curlew Sandpiper <i>Calidris ferruginea</i>	WA	Green	NBDC online database record
Dunlin <i>Calidris alpina</i>	SCI, BD I, WA	Red	NBDC online database record
Eurasian Collared Dove <i>Streptopelia decaocto</i>	WA	Green	NBDC online database record
Eurasian Curlew <i>Numenius arquata</i>	SCI, BD II(II), WA	Red	NBDC online database record
Eurasian Golden Oriole <i>Oriolus oriolus</i>	WA	n/a	NBDC online database record
Eurasian Hobby <i>Falco subbuteo</i>	WA	Green	NBDC online database record
Eurasian Jackdaw <i>Corvus monedula</i>	WA	Green	NBDC online database record
Eurasian Jay <i>Garrulus glandarius</i>	WA	Green	NBDC online database record
Eurasian Oystercatcher <i>Haematopus ostralegus</i>	SCI, WA	Red	NBDC online database record
Eurasian Siskin <i>Carduelis spinus</i>	WA	Green	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Eurasian Sparrowhawk <i>Accipiter nisus</i>	WA	Green	NBDC online database record
Eurasian Spoonbill <i>Platalea leucorodia</i>	BD I, WA	n/a	NBDC online database record
Eurasian Teal <i>Anas crecca</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Eurasian Tree Sparrow <i>Passer montanus</i>	WA	Amber	NBDC online database record
Eurasian Treecreeper <i>Certhia familiaris</i>	WA	Green	NBDC online database record
Eurasian Wigeon <i>Anas penelope</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Eurasian Woodcock <i>Scolopax rusticola</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
European Bee-eater <i>Merops apiaster</i>	WA	n/a	NBDC online database record
European Golden Plover <i>Pluvialis apricaria</i>	SCI, BD I BD II(II), WA	Red	NBDC online database record
European Goldfinch <i>Carduelis carduelis</i>	WA	Green	NBDC online database record
European Greenfinch <i>Carduelis chloris</i>	WA	Amber	NBDC online database record
European Robin <i>Erithacus rubecula</i>	WA	Green	NBDC online database record
European Serin <i>Serinus serinus</i>	WA	n/a	NBDC online database record
European Shag <i>Phalacrocorax aristotelis</i>	SCI, WA	Amber	NBDC online database record
European Turtle Dove <i>Streptopelia turtur</i>	WA	Red	NBDC online database record
Fieldfare <i>Turdus pilaris</i>	WA	Green	NBDC online database record
Forster's Tern <i>Sterna forsteri</i>	WA	n/a	NBDC online database record
Franklin's Gull <i>Larus pipixcan</i>	WA	n/a	NBDC online database record
Gadwall <i>Anas strepera</i>	SCI, WA	Amber	NBDC online database record
Glaucous Gull <i>Larus hyperboreus</i>	WA	Green	NBDC online database record
Goldcrest <i>Regulus regulus</i>	WA	Amber	NBDC online database record
Great Black-backed Gull <i>Larus marinus</i>	WA	Green	NBDC online database record
Great Cormorant <i>Phalacrocorax carbo</i>	SCI, WA	Amber	NBDC online database record
Great Crested Grebe <i>Podiceps cristatus</i>	SCI, WA	Amber	NBDC online database record
Great Egret <i>Ardea alba</i>	WA	n/a	NBDC online database record
Great Grey Shrike <i>Lanius excubitor</i>	WA	n/a	NBDC online database record
Great Knot <i>Calidris tenuirostris</i>	WA	n/a	NBDC online database record
Great Northern Diver <i>Gavia immer</i>	SCI, BD I, WA	Amber	NBDC online database record
Great Spotted Woodpecker <i>Dendrocopos major</i>	BD I, WA	Green	NBDC online database record
Great Tit <i>Parus major</i>	WA	Green	NBDC online database record
Greater Scaup <i>Aythya marila</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Grey Heron <i>Ardea cinerea</i>	SCI, WA	Green	NBDC online database record
Grey Partridge <i>Perdix perdix</i>	WA	Red	NBDC online database record
Grey Plover <i>Pluvialis squatarola</i>	SCI, WA	Red	NBDC online database record
Grey Wagtail <i>Motacilla cinerea</i>	WA	Red	NBDC online database record
Hawfinch <i>Coccothraustes coccothraustes</i>	WA	n/a	NBDC online database record
Hedge Accentor <i>Prunella modularis</i>	WA	Green	NBDC online database record
Hen Harrier <i>Circus cyaneus</i>	SCI, BD I, WA	Amber	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Herring Gull <i>Larus argentatus</i>	SCI, WA	Amber	NBDC online database record
Hooded Crow <i>Corvus cornix</i>	WA	Green	NBDC online database record
Hooded Merganser <i>Lophodytes cucullatus</i>	WA	n/a	NBDC online database record
House Martin <i>Delichon urbicum</i>	WA	Amber	NBDC online database record
House Sparrow <i>Passer domesticus</i>	WA	Amber	NBDC online database record
Iceland Gull <i>Larus glaucoides</i>	WA	Green	NBDC online database record
Icterine Warbler <i>Hippolais icterina</i>	WA	n/a	NBDC online database record
Ivory Gull <i>Pagophila eburnea</i>	WA	n/a	NBDC online database record
Kentish Plover <i>Charadrius alexandrinus</i>	BD I, WA	n/a	NBDC online database record
Kumlien's Iceland Gull <i>Larus glaucoides subsp. kumlieni</i>	WA	n/a	NBDC online database record
Laughing Gull <i>Larus atricilla</i>	WA	n/a	NBDC online database record
Lesser Black-backed Gull <i>Larus fuscus</i>	SCI, WA	Amber	NBDC online database record
Lesser Redpoll <i>Carduelis cabaret</i>	WA	Green	NBDC online database record
Lesser Whitethroat <i>Sylvia curruca</i>	WA	Amber	NBDC online database record
Lesser Yellowlegs <i>Tringa flavipes</i>	WA	n/a	NBDC online database record
Light-bellied Brent Goose <i>Branta bernicla subsp. hrota</i>	SCI, WA	Amber	NBDC online database record
Little Egret <i>Egretta garzetta</i>	BD I, WA	Green	NBDC online database record
Little Grebe <i>Tachybaptus ruficollis</i>	SCI, WA	Green	NBDC online database record
Little Gull <i>Hydrocoloeus minutus</i>	BD I, WA	Amber	NBDC online database record
Little Plover <i>Charadrius dubius</i>	WA	Amber	NBDC online database record
Little Tern <i>Sternula albifrons</i>	BD I, WA	Amber	NBDC online database record
Long-billed Dowitcher <i>Limnodromus scolopaceus</i>	WA	n/a	NBDC online database record
Long-eared Owl <i>Asio otus</i>	WA	Green	NBDC online database record
Long-tailed Tit <i>Aegithalos caudatus</i>	WA	Green	NBDC online database record
Magnificent Frigatebird <i>Fregata magnificens</i>	WA	n/a	NBDC online database record
Mallard <i>Anas platyrhynchos</i>	SCI, BD II(I) BD III(I), WA	Amber	NBDC online database record
Mandarin Duck <i>Aix galericulata</i>	WA	n/a	NBDC online database record
Manx Shearwater <i>Puffinus puffinus</i>	SCI, WA	Amber	NBDC online database record
Meadow Pipit <i>Anthus pratensis</i>	WA	Red	NBDC online database record
Mediterranean Gull <i>Larus melanocephalus</i>	BD I, WA	Amber	NBDC online database record
Melodious Warbler <i>Hippolais polyglotta</i>	WA	n/a	NBDC online database record
Mew Gull <i>Larus canus</i>	SCI, WA	Amber	NBDC online database record
Mistle Thrush <i>Turdus viscivorus</i>	WA	Green	NBDC online database record
Montagu's Harrier <i>Circus pygargus</i>	BD I, WA	n/a	NBDC online database record
Mute Swan <i>Cygnus olor</i>	WA	Amber	NBDC online database record
Northern Gannet <i>Morus bassanus</i>	SCI, WA	Amber	NBDC online database record
Northern Goshawk <i>Accipiter gentilis</i>	WA	Amber	NBDC online database record
Northern Lapwing <i>Vanellus vanellus</i>	SCI, BD II(II), WA	Red	NBDC online database record
Northern Shoveler <i>Anas clypeata</i>	SCI, BD II(I) BD III(III), WA	Red	NBDC online database record
Northern Wheatear <i>Oenanthe oenanthe</i>	WA	Amber	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Pacific Golden Plover <i>Pluvialis fulva</i>	WA	n/a	NBDC online database record
Pallas's Sandgrouse <i>Syrhaptes paradoxus</i>	WA	n/a	NBDC online database record
Peregrine Falcon <i>Falco peregrinus</i>	SCI, BD I, WA	Green	NBDC online database record
Pied Avocet <i>Recurvirostra avosetta</i>	BD I, WA	n/a	NBDC online database record
Pied Wagtail <i>Motacilla alba subsp. yarrellii</i>	WA	Green	NBDC online database record
Pine Bunting <i>Emberiza leucocephalos</i>	WA	n/a	NBDC online database record
Pink-footed Goose <i>Anser brachyrhynchus</i>	WA	n/a	NBDC online database record
Red Kite <i>Milvus milvus</i>	BD I, WA	Red	NBDC online database record
Red Knot <i>Calidris canutus</i>	SCI, WA	Red	NBDC online database record
Red-backed Shrike <i>Lanius collurio</i>	BD I, WA	n/a	NBDC online database record
Red-breasted Merganser <i>Mergus serrator</i>	SCI, BD II(II), WA	Amber	NBDC online database record
Red-footed Falcon <i>Falco vespertinus</i>	BD I, WA	n/a	NBDC online database record
Red-legged Partridge <i>Alectoris rufa</i>	WA	n/a	NBDC online database record
Red-necked Grebe <i>Podiceps grisegena</i>	WA	n/a	NBDC online database record
Red-rumped Swallow <i>Cecropis daurica</i>	WA	n/a	NBDC online database record
Red-throated Diver <i>Gavia stellata</i>	SCI, BD I, WA	Amber	NBDC online database record
Redwing <i>Turdus iliacus</i>	WA	Red	NBDC online database record
Reed Bunting <i>Emberiza schoeniclus</i>	WA	Green	NBDC online database record
Ring-billed Gull <i>Larus delawarensis</i>	WA	Green	NBDC online database record
Ringed Plover <i>Charadrius hiaticula</i>	SCI, WA	Amber	NBDC online database record
Rock Pigeon <i>Columba livia</i>	WA, BD II(I)	Green	NBDC online database record
Rook <i>Corvus frugilegus</i>	WA	Green	NBDC online database record
Rosy Starling <i>Sturnus roseus</i>	WA	n/a	NBDC online database record
Rough-legged Buzzard <i>Buteo lagopus</i>	WA	n/a	NBDC online database record
Ruddy Turnstone <i>Arenaria interpres</i>	SCI, WA	Amber	NBDC online database record
Ruff <i>Calidris pugnax</i>	BD I, WA	Amber	NBDC online database record
Sand Martin <i>Riparia riparia</i>	WA	Amber	NBDC online database record
Sanderling <i>Calidris alba</i>	SCI, WA	Green	NBDC online database record
Sedge Warbler <i>Acrocephalus schoenobaenus</i>	WA	Green	NBDC online database record
Sempalmated Sandpiper <i>Calidris pusilla</i>	WA	n/a	NBDC online database record
Short-billed Dowitcher <i>Limnodromus griseus</i>	WA	n/a	NBDC online database record
Short-eared Owl <i>Asio flammeus</i>	BD I, WA	Amber	NBDC online database record
Sky Lark <i>Alauda arvensis</i>	WA	Amber	NBDC online database record
Slavonian Grebe <i>Podiceps auritus</i>	BD I, WA	Red	NBDC online database record
Smew <i>Marcellus albellus</i>	BD I, WA	Amber	NBDC online database record
Snow Goose <i>Anser caerulescens</i>	WA	n/a	NBDC online database record
Snowy Owl <i>Bubo scandiaca</i>	WA	Red	NBDC online database record
Song Thrush <i>Turdus philomelos</i>	WA	Green	NBDC online database record
Southern Cormorant <i>Phalacrocorax carbo subsp. sinensis</i>	WA	Amber	NBDC online database record
Spotted Crake <i>Porzana porzana</i>	BD I, WA	Amber	NBDC online database record
Spotted Flycatcher <i>Muscicapa striata</i>	WA	Amber	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Spotted Redshank <i>Tringa erythropus</i>	WA	Amber	NBDC online database record
Squacco Heron <i>Ardeola ralloides</i>	BD I, WA	n/a	NBDC online database record
Stilt Sandpiper <i>Calidris himantopus</i>	WA	n/a	NBDC online database record
Stock Pigeon <i>Columba oenas</i>	WA	Red	NBDC online database record
Stonechat <i>Saxicola torquata</i>	WA	Green	NBDC online database record
Stone-curlew <i>Burhinus oedicnemus</i>	BD I, WA	n/a	NBDC online database record
Surf Scoter <i>Melanitta perspicillata</i>	WA	n/a	NBDC online database record
Temminck's Stint <i>Calidris temminckii</i>	WA	n/a	NBDC online database record
Thayer's Gull <i>Larus thayeri</i>	WA	n/a	NBDC online database record
Tufted Duck <i>Aythya fuligula</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Tundra Swan <i>Cygnus columbianus</i>	SCI, WA	Red	NBDC online database record
Twite <i>Carduelis flavirostris</i>	WA	Red	NBDC online database record
Velvet Scoter <i>Melanitta fusca</i>	WA	Red	NBDC online database record
Water Pipit <i>Anthus spinoletta</i>	WA	n/a	NBDC online database record
Water Rail <i>Rallus aquaticus</i>	WA	Amber	NBDC online database record
Whiskered Tern <i>Chlidonias hybrida</i>	WA	n/a	NBDC online database record
White Stork <i>Ciconia ciconia</i>	BD I, WA	n/a	NBDC online database record
White Wagtail <i>Motacilla alba</i>	WA	Green	NBDC online database record
White-rumped Sandpiper <i>Calidris fuscicollis</i>	WA	n/a	NBDC online database record
White-throated Dipper <i>Cinclus cinclus</i>	WA	Green	NBDC online database record
White-winged Tern <i>Chlidonias leucopterus</i>	WA	n/a	NBDC online database record
Whooper Swan <i>Cygnus cygnus</i>	SCI, BD I, WA	Amber	NBDC online database record
Willow Warbler <i>Phylloscopus trochilus</i>	WA	Green	NBDC online database record
Wilson's Phalarope <i>Phalaropus tricolor</i>	WA	n/a	NBDC online database record
Winter Wren <i>Troglodytes troglodytes</i>	WA	Green	NBDC online database record
Wood Duck <i>Aix sponsa</i>	WA	n/a	NBDC online database record
Wood Lark <i>Lullula arborea</i>	BD I, WA	n/a	NBDC online database record
Woodchat Shrike <i>Lanius senator</i>	WA	n/a	NBDC online database record
Yellowhammer <i>Emberiza citrinella</i>	WA	Red	NBDC online database record
Reptiles			
Common Lizard <i>Zootoca vivipara</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Amphibians			
Common Frog <i>Rana temporaria</i>	HD V	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Smooth Newt <i>Lissotriton vulgaris</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Fish			
European Eel <i>Anguilla anguilla</i>	OSPAR, Fisheries Acts	Critically endangered	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Invertebrates			

Common Name / Scientific name	Legal Status	Red List Status	Source
Common Shelled Slug <i>Testacella haliotidea</i>	n/a	Vulnerable	NBDC online database record
Ear Pond Snail <i>Radix auricularia</i>	n/a	Vulnerable	NBDC online database record
English Chrysalis Snail <i>Leiostyla anglica</i>	n/a	Vulnerable	NBDC online database record
Glutinous Snail <i>Myxas glutinosa</i>	n/a	Endangered	NBDC online database record
Heath Snail <i>Helicella itala</i>	n/a	Vulnerable	NBDC online database record
Lake Orb Mussel <i>Musculium lacustre</i>	n/a	Near threatened	NBDC online database record
Moss Chrysalis Snail <i>Pupilla muscorum</i>	n/a	Endangered	NBDC online database record
Mauge's Shelled Slug <i>Testacella maugei</i>	n/a	Near threatened	NBDC online database record
False Orb Pea Mussel <i>Pisidium pseudosphaerium</i>	n/a	Endangered	NBDC online database record
Iridescent Pea Mussel <i>Pisidium pulchellum</i>	n/a	Endangered	NBDC online database record
Smooth Grass Snail <i>Vallonia pulchella</i>	n/a	Vulnerable	NBDC online database record
Smooth Ramshorn <i>Gyraulus laevis</i>	n/a	Endangered	NBDC online database record
Swan Mussel <i>Anodonta cygnea</i>	n/a	Vulnerable	NBDC online database record
Globular Pea Mussel <i>Pisidium hibernicum</i>	n/a	Near threatened	NBDC online database record
Silky Snail <i>Ashfordia granulata</i>	n/a	Near threatened	NBDC online database record
Buffish Mining Bee <i>Andrena nigroaenea</i>	n/a	Vulnerable	NBDC online database record
Water Plantain Sloth Weevil <i>Bagous alismatis</i>	n/a	Critically endangered	NBDC online database record
Barbut's Cuckoo Bee <i>Bombus barbutellus</i>	n/a	Endangered	NBDC online database record
Dark Green Fritillary <i>Argynnis aglaja</i>	n/a	Vulnerable	NBDC online database record
Field Cuckoo Bee <i>Bombus campestris</i>	n/a	Vulnerable	NBDC online database record
Gooden's Nomad Bee <i>Nomada goodeniana</i>	n/a	Endangered	NBDC online database record
Grayling <i>Hipparchia semele</i>	n/a	Near threatened	NBDC online database record
Great Yellow Bumble Bee <i>Bombus distinguendus</i>	n/a	Endangered	NBDC online database record
Artist Whirligig <i>Gyrinus urinator</i>	n/a	Near threatened	NBDC online database record
Bronze Furrow Bee <i>Halictus tumulorum</i>	n/a	Near threatened	NBDC online database record
Hill Cuckoo Bee <i>Bombus rupestris</i>	n/a	Endangered	NBDC online database record
Short-horned Yellow-face Bee <i>Hylaeus brevicornis</i>	n/a	Endangered	NBDC online database record
Dark Olive Mayfly <i>Labiobaetis atrebatinus</i>	n/a	Endangered	NBDC online database record
Large Red Tailed Bumble Bee <i>Bombus lapidarius</i>	n/a	Near threatened	NBDC online database record
Marsh Fritillary <i>Euphydryas aurinia</i>	HD II	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Willoughy's Leafcutter Bee <i>Megachile willughbiella</i>	n/a	Near threatened	NBDC online database record
Patchwork Leafcutter Bee <i>Megachile centuncularis</i>	n/a	Near threatened	NBDC online database record
Moss Carder-bee <i>Bombus muscorum</i>	n/a	Near threatened	NBDC online database record
Mouse Moth <i>Amphipyra tragopoginis</i>	n/a	Near threatened	NBDC online database record
Pale Evening Dun Mayfly <i>Procladius bifidus</i>	n/a	Vulnerable	NBDC online database record
Red-tailed Carder Bee <i>Bombus rudericus</i>	n/a	Vulnerable	NBDC online database record
March Brown Mayfly <i>Rhythrogena germanica</i>	n/a	Vulnerable	NBDC online database record
Scarce Blue-tailed Damselfly <i>Ischnura pumilio</i>	n/a	Vulnerable	NBDC online database record
Small Blue <i>Cupido minimus</i>	n/a	Endangered	NBDC online database record
Small Heath <i>Coenonympha pamphilus</i>	n/a	Near threatened	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Trimmer's Mining Bee <i>Andrena trimmerana</i>	n/a	Critically endangered	NBDC online database record
V-moth <i>Macaria wauaria</i>	n/a	Regionally extinct	NBDC online database record
Wall butterfly <i>Lasiommata megera</i>	n/a	Endangered	NBDC online database record
Wood White <i>Leptidea sinapis</i>	n/a	Near threatened	NBDC online database record
Yellow Shell Moth <i>Campptogramma bilineata</i>	n/a	Near threatened	NBDC online database record

HDII / IV / V = Habitats Directive Annexes II / IV / V; FPO = Flora (Protection) Order, 2015; WA = Wildlife Acts.

HD II / IV / V = Habitats Directive Annexes II / IV / V; BD I / II / III = Birds Directive Annex I / II / III; OSPAR = Convention for the protection of the marine environment of the North-east Atlantic 1992, Third schedule of S.I. 477 = Third Schedule of S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011, Species of Union concern = Regulation (EU) No 1143/2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species.

Table 2 Non-native IAPS species listed under S.I 477 of the Birds and Habitats Regulations 2011

Common Name / Scientific name	Legal Status	Source
American Skunk-Cabbage <i>Lysichiton americanus</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Brazilian Giant-Rhubarb <i>Gunnera Manicata</i>	Third schedule of S.I. 477	NBDC online database record
Common Cord-grass <i>Spartina anglica</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Curly Waterweed <i>Lagarosiphon major</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Giant Hogweed <i>Heracleum mantegazzianum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Giant Knotweed <i>Reynoutria sachalinensis</i>	Third schedule of S.I. 477	NBDC online database record
Giant-rhubarb <i>Gunnera tinctoria</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Indian Balsam <i>Impatiens glandulifera</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Japanese Knotweed <i>Reynoutria japonica</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
New Zealand Pigmyweed <i>Crassula helmsii</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Nuttall's Waterweed <i>Elodea nuttallii</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
Canadian Waterweed <i>Elodea canadensis</i>	Delisted as S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Parrot's-feather <i>Myriophyllum aquaticum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
Rhododendron <i>Rhododendron ponticum</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2015-2020
Sea-Buckthorn <i>Hippophae rhamnoides</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025

Common Name / Scientific name	Legal Status	Source
Spanish Bluebell <i>Hyacinthoides hispanica</i>	Third schedule of S.I. 477	NBDC online database record, Dublin City Biodiversity Action Plan 2021-2025
Three-cornered Garlic <i>Allium triquetrum</i>	Third schedule of S.I. 477	NBDC online database record

S.I. 477 = Third Schedule of S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011, Species of Union concern = Regulation (EU) No 1143 / 2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species, and Commission Implementing Regulation (EU) 2017/1263 updating the list of invasive alien species of Union concern established by Implementing Regulation (EU) 2016/1141 pursuant to Regulation (EU) No 1143/2014 of the European Parliament and of the Council.

1.2 References:

FitzPatrick, Ú., Murray, T.E., Byrne, A., Paxton, R.J. and Brown, M.J.F. (2006) Regional Red List of Irish Bees. Report to National Parks & Wildlife Service (Ireland) and Environment & Heritage Service (N. Ireland).

Gilbert, G., Stanbury, A., Lewis, L. (2021). Birds of Conservation Concern in Ireland 4: 2020–2026. Irish Birds 9: 523-544.. RSPB Great Britain and Birdwatch Ireland.

Temple, H.J. and Terry, A. (Compilers), (2007), The Status and Distribution of European Mammals. Luxembourg: Office for Official Publications of the European Communities.

Byrne, A., Moorkens, E.A., Anderson, R., Killeen, I.J. & Regan, E.C. (2009) Ireland Red List No. 2 – Non-Marine Molluscs.

Dublin City Council (2021). Dublin City Biodiversity Action Plan 2021-2025 Available at: https://www.dublincity.ie/sites/default/files/2022-07/dcc-bioap-2021-2025-webv_21.07.22.pdf

Foster, G. N., Nelson, B. H. & O Connor, Á. (2009) Ireland Red List No. 1 – Water beetles.

Regan, E.C., Nelson, B., Aldwell, B., Bertrand, C., Bond, K., Harding, J., Nash, D., Nixon, D., & Wilson, C.J. (2010) Ireland Red List No. 4 – Butterflies.

King, J.L., Marnell, F., Kingston, N., Rosell, R., Boylan, P., Caffrey, J.M., Fitzpatrick, Ú., Gargan, P.G., Kelly, F.L., O'Grady, M.F., Poole, R., Roche, W.K. & Cassidy, D. (2011) Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish.

Nelson, B., Ronayne, C. & Thompson, R. (2011) Ireland Red List No.6: Damselflies & Dragonflies (Odonata).

Kelly F. L., Matson, R., Connor, L., Feeney, R., Morrissey, E., Wogerbauer C., Rocks, K. (2011). Water Framework Directive Fish Stock Survey of Rivers in the Eastern River Basin District, 2011. Inland Fisheries Ireland, Swords Business Campus, Swords, Co. Dublin.

Kelly-Quinn, M. & Regan, E.C. (2012) Ireland Red List No. 7: Mayflies (Ephemeroptera). National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Allen, D., O'Donnell, M., Nelson, B., Tyner, A., Bond, K.G.M., Bryant, T., Croy, A., Mellon, C., O'Boyle, J., O'Donnell, E., Rolston, T., Sheppard, R., Strickland, P., Fitzpatrick, U., & Regan, E. (2016) Ireland Red List No. 9: Macro-moths (Lepidoptera).

Dublin City Biodiversity Action Plan 2015 - 2020 (2015), Dublin City Council.

Wyse Jackson, M., FitzPatrick, Ú., Cole, E., Jebb, M., McFerran, D., Sheehy Skeffington, M. & Wright, M. (2016) Ireland Red List No. 10: Vascular Plants. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Matson, R., *et. al.*, (2018) Sampling Fish in Rivers 2017 – Camac, Factsheet No. 3. National Research Survey Programme. Inland Fisheries Ireland.

Marnell, F., Looney, D. & Lawton, C. (2019) Ireland Red List No. 12: Terrestrial Mammals.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. Irish Wildlife Manuals, No. 116. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

Matson, R., Delanty, K., Gordon, P., O'Briain, R., McCarthy, E., Cierpal, D., Connor, L., Corcoran, W., Coyne, J., McLoone, P., Morrissey, McCaffrey, E., Brett, T., Gavin, A., Kelly, F.L., (2019). Sampling Fish in Rivers 2018 - Dodder, Factsheet No. 2. National Research Survey Programme. Inland Fisheries Ireland.

Feeley, H.B., Baars, J-R., Kelly-Quinn, M. & Nelson, B. (2020) Ireland Red List No. 13: Stoneflies (Plecoptera). National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Dublin. Ireland.