Summer 2023



Regional Water Resources Plan

North West

Natura Impact Statement Appendix F Appendix G







Tionscadal Éireann Project Ireland 2040

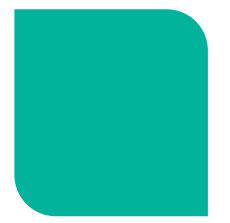


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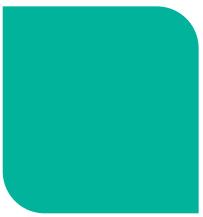




Appendix F

Water Dependent Qualifying

Interest Species and Habitats



Appendix F. Water Dependent Qualifying Interest Species and Habitats within the NW region

Annex II species which are water dependent and their sensitivities¹

Species name	Common name	Code	Surface water dependent	Groundwater dependent	Marine water dependent**	Sensitivity to hydrological impacts	Sensitivity to water pollution	Overall Status ²
Vertigo geyeri	Geyer's whorl snail	1013		✓		High	High	Bad
Margaritifera margaritifera	Freshwater pearl mussel	1029	✓			High*	High*	Bad
Austropotamobius pallipes	White- clawed crayfish	1092	✓			Medium to High	Medium to High	Bad
Salmo salar	Atlantic salmon	1106	✓		✓	High	High	Inadequate
Petalophyllum ralfsii	Petalwort	1395		✓		High	High	Favourable
Najas flexilis	Slender naiad	1833	✓			High	High	Inadequate
Trichomanes speciosum	Killarney fern	1421	✓			High	Medium	Favourable
Saxifraga hirculus	Yellow marsh saxifrage	1528		✓		High	Medium	Favourable
Hamatocaulis vernicosus	Slender green feather-moss	6216		✓		High	Medium	Favourable
Petromyzon marinus	Sea lamprey	1095	~		✓	High	Medium	Bad
Lampetra planeri	Brook	1096	\checkmark			High	Medium	Favourable

¹ Table adapted from Western RBD, ESBI, Eleanor Mayes, Ecological Consultant. (2008). Water Framework Directive Annex IV Protected Areas: Water Dependent Habitats and Species in High Status Sites. Available online

² National Parks and Wildlife Service (2019a). The Status of EU Protected Habitats and Species in Ireland. Volume 1: Summary Overview. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill. * species extremely sensitive to sedimentation and changes in hydrology, flow regime etc.

^{**} water pollution affecting marine mammals from any of the proposed option types is considered unlikely given the assimilative nature of the marine environment and its very large assimilative capacity

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Species name	Common name	Code	Surface water dependent	Groundwater dependent	Marine water dependent**	Sensitivity to hydrological impacts	Sensitivity to water pollution	Overall Status ²
	lamprey							
Lampetra fluviatilis	River lamprey	1099	~			High	Medium	Unknown
Lutra lutra	Otter	1355	✓		✓	Medium	Medium	Favourable
Vertigo angustior	Narrow- mouthed whorl snail	1014		\checkmark		Medium	Medium	Inadequate
Tursiops truncatus	Bottle-nosed dolphin	1349			\checkmark	N/A	-	Favourable
Halichoerus grypus	Grey seal	1364			\checkmark	N/A	-	Favourable
Phoca vitulina	Common seal	1365			\checkmark	N/A	-	Favourable

* species extremely sensitive to sedimentation and changes in hydrology, flow regime etc. ** water pollution affecting marine mammals from any of the proposed option types is considered unlikely given the assimilative nature of the marine environment and its very large assimilative capacity

Annex I water dependent habitats

Habitat code	Habitat name	Habitat status ³
1110	Sandbanks which are slightly covered by sea water all the time	Favourable
1130	Estuaries	Inadequate
1140	Mudflats and sandflats not covered by seawater at low tide	Inadequate
1150	Coastal lagoons	Bad
1160	Large shallow inlets and bays	Bad
1170	Reefs	Inadequate
1210	Annual vegetation of drift lines	Inadequate
1220	Perennial vegetation of stony banks	Inadequate
1230	Vegetated sea cliffs of the Atlantic and Baltic coasts	Inadequate
1310	Salicornia and other annuals colonising mud and sand	Favourable
1330	Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Inadequate
1410	Mediterranean salt meadows (Juncetalia maritimi)	Inadequate
2110	Embryonic shifting dunes	Inadequate
2120	Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)	Inadequate
2130	Fixed coastal dunes with herbaceous vegetation (grey dunes)	Bad
2140	Decalcified fixed dunes with Empetrum nigrum	Favourable
2150	Atlantic decalcified fixed dunes (Calluno-Ulicetea)	Inadequate
2170	Dunes with Salix repens ssp. argentea (Salicion arenariae)	Inadequate
2190	Humid dune slacks	Inadequate
21A0	Machairs (* in Ireland)	Inadequate
3110	Oligotrophic waters containing very few minerals of sandy plains (<i>Littorelletalia uniflorae</i>)	Bad
3130	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or <i>Isoeto-Nanojuncetea</i>	Inadequate
3140	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.	Bad
3150	Natural eutrophic lakes with Magnopotamion or Hydrocharition - type vegetation	Inadequate
3160	Natural dystrophic lakes and ponds	Inadequate
3180	Turloughs	Inadequate
3260	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation	Inadequate
3270	Rivers with muddy banks with <i>Chenopodion rubri</i> p.p. and <i>Bidention</i> p.p. vegetation	Favourable
4010	Northern Atlantic wet heaths with Erica tetralix (flushes only)	Bad
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>)	Bad
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	Bad
7110	Active raised bogs	Bad
7120	Degraded raised bogs still capable of natural regeneration	Bad

³ National Parks and Wildlife Service (2019a). The Status of EU Protected Habitats and Species in Ireland. Volume 1: Summary Overview. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill.

Habitat code	Habitat name	Habitat status³
7130	Blanket bogs (* if active bog)	Bad
7140	Transition mires and quaking bogs	Bad
7150	Depressions on peat substrates of the Rhynchosporion	Bad
7210	Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	Inadequate
7220	Petrifying springs with tufa formation (Cratoneurion)	Inadequate
7230	Alkaline fens	Bad
8310	Caves not open to the public	Favourable
8330	Submerged or partially submerged sea caves	Favourable
91D0	Bog woodland	Favourable
91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno- Padion, Alnion incanae, Salicion albae)	Bad

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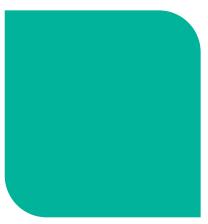




Appendix G

Water Dependent Qualifying

Interest Bird Species



Appendix G. Water Dependent Qualifying Interest Bird Species within the NW region

Species code	Species name	Water dependent	Nutrient sensitive	Species status ¹
A001	Red-throated Diver (Gavia stellata)	\checkmark	\checkmark	Amber
A002	Black-throated Diver (Gavia arctica)	\checkmark	\checkmark	Amber
A003	Great Northern Diver (Gavia immer)	\checkmark	\checkmark	Amber
A004	Little Grebe (Tachybaptus ruficollis)	\checkmark		Green
A005	Great Crested Grebe (<i>Podiceps</i> cristatus)	\checkmark		Amber
A007	Slavonian Grebe (Podiceps auritus)	\checkmark		Red
A009	Fulmar (<i>Fulmarus glacialis</i>)	\checkmark		Amber
A014	Storm Petrel (Hydrobates pelagicus)	\checkmark	\checkmark	Amber
A017	Cormorant (Phalacrocorax carbo)	\checkmark	\checkmark	Amber
A018	Shag (Phalacrocorax aristotelis)	\checkmark		Amber
A028	Grey Heron (Ardea cinerea)	\checkmark		Green
A037	Bewick's Swan (<i>Cygnus columbianus</i> <i>bewickii</i>)	\checkmark	\checkmark	Red
A038	Whooper Swan (Cygnus cygnus)	\checkmark	\checkmark	Amber
A043	Greylag Goose (Anser anser)	\checkmark	\checkmark	Amber
A045	Barnacle Goose (Branta leucopsis)	\checkmark	\checkmark	Amber
A046	Light-bellied Brent Goose (<i>Branta bernicla hrota</i>)	\checkmark		Amber
A048	Shelduck (Tadorna tadorna)	\checkmark	\checkmark	Amber
A050	Wigeon (Anas penelope)	\checkmark	\checkmark	Amber
A051	Gadwall (Anas strepera)	\checkmark	\checkmark	Amber
A052	Teal (Anas crecca)	\checkmark	\checkmark	Amber
A053	Mallard (Anas platyrhynchos)		\checkmark	Amber
A054	Pintail (Anas acuta)	\checkmark	\checkmark	Amber
A056	Shoveler (Anas clypeata)		\checkmark	Red
A059	Pochard (Aythya ferina)	\checkmark		Red
A061	Tufted Duck (Aythya fuligula)	\checkmark	\checkmark	Amber
A062	Scaup (Aythya marila)	\checkmark	\checkmark	Red
A063	Eider (Somateria mollissima)	\checkmark	\checkmark	Red
A065	Common Scoter (Melanitta nigra)	\checkmark	\checkmark	Red
A067	Goldeneye (Bucephala clangula)	\checkmark	\checkmark	Red
A069	Red-breasted Merganser (<i>Mergus</i> serrator)	\checkmark	\checkmark	Amber
A082	Hen harrier (Circus cyaneus)	\checkmark		Amber
A098	Merlin (<i>Falco columbarius</i>)	\checkmark		Amber
A103	Peregrine (Falco peregrinus)	\checkmark		Green
A122	Corncrake (Crex crex)	\checkmark		Red
A125	Coot (<i>Pulica atra</i>)	\checkmark		Amber
A130	Oystercatcher (<i>Haematopus</i> ostralegus)		\checkmark	Red
A137	Ringed Plover (Charadrius hiaticula)		\checkmark	Amber
A140	Golden Plover (Pluvialis apricaria)	\checkmark	\checkmark	Red

¹ Gilbert G, Stanbury A and Lewis L (2021), "Birds of Conservation Concern in Ireland 2020 –2026". Irish Birds 9: 523–544

Species code	Species name	Water dependent	Nutrient sensitive	Species status ¹
A141	Grey Plover (<i>Pluvialis squatarola</i>)	\checkmark	\checkmark	Red
A142	Lapwing (Vanellus vanellus)	\checkmark	\checkmark	Red
A143	Knot (Calidris canutus)	\checkmark	\checkmark	Red
A144	Sanderling (Calidris alba)		\checkmark	Green
A148	Purple Sandpiper (Calidris maritima)	\checkmark		Red
A149	Dunlin (<i>Calidris alpina</i>)	\checkmark		Red
A156	Black-tailed Godwit (Limosa limosa)	\checkmark	\checkmark	Red
A157	Bar-tailed Godwit (Limosa lapponica)	\checkmark	\checkmark	Red
A160	Curlew (Numenius arquata)	\checkmark		Red
A162	Redshank (Tringa totanus)	\checkmark		Red
A164	Greenshank (<i>Tringa nebularia</i>)	\checkmark		Green
A169	Turnstone (Arenaria interpres)	\checkmark		Amber
A179	Black-headed Gull (Larus ridibundus)	\checkmark		Amber
A182	Common Gull (Larus canus)	\checkmark		Amber
A183	Lesser Black-backed Gull (<i>Larus fuscus</i>)	\checkmark		Amber
A184	Herring Gull (Larus argentatus)	\checkmark		Amber
A188	Kittiwake (Rissa tridactyla)	\checkmark		Red
A191	Tern, sandwich (Sterna sandvicensis)	\checkmark		Amber
A193	Tern, common (Sterna hirundo)	\checkmark		Amber
A194	Tern, arctic (Sterna paradisaea)	\checkmark		Amber
A195	Tern, little (Sterna albifrons)	\checkmark		Amber
A199	Guillemot (<i>Uria aalge</i>)	\checkmark		Amber
A200	Razorbill (Alca torda)	\checkmark		Red
A204	Puffin (Fratercula arctica)	\checkmark		Red
A346	Chough (Pyrrhocorax pyrrhocorax)	\checkmark		Amber
A395	Greenland White-fronted Goose (Anser albifrons flavirostris)	\checkmark	\checkmark	Amber
A466	Dunlin (sub-species) (<i>Calidris alpina</i> <i>schinzii</i>)	\checkmark		Red