



# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

## Environmental Statement

### **Volume 3**

### Appendix 22.4 - Designated Ecological Sites and Critical Level and Load Values in the Air Quality Study Area

August 2022

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## Glossary of Acronyms

AADT	Annual Average Daily Traffic
APIS	Air Pollution Information System
DEP	Dudgeon Offshore Wind Farm Extension Project
JNCC	Joint Nature Conservation Committee
LNR	Local Nature Reserve
MAGIC	Multi-Agency Geographic Information for the Countryside
N-Dep	Nutrient Nitrogen
NH <sup>3</sup>	Ammonia
NO <sub>x</sub>	Nitrogen Dioxide
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter of less than 10µm
SAC	Special Area of Conservation
SEP	Sheringham Shoal Offshore Wind Farm Extension Project
SPA	Special Protection Area
SSSI	Site of Specific Scientific Interest

## Glossary of Terms

Dudgeon Offshore Wind Farm Extension Project (DEP)	The Dudgeon Offshore Wind Farm Extension onshore and offshore sites including all onshore and offshore infrastructure.
Order Limits	The area subject to the application for development consent, including all permanent and temporary works for SEP and DEP.
Sheringham Shoal Offshore Wind Farm Extension Project (SEP)	The Sheringham Shoal Offshore Wind Farm Extension onshore and offshore sites including all onshore and offshore infrastructure.
The Applicant	Equinor New Energy Limited.

## 22.4. DESIGNATED ECOLOGICAL SITES AND CRITICAL LEVEL AND LOAD VALUES

### 22.4.1. Introduction

1. A number of designated ecological sites are located within 200m of roads which are anticipated to experience increases in construction-related traffic flows above the criteria detailed in **Table 22.10** of **Chapter 22 Air Quality** (inclusive of traffic growth from 2019 to 2025 and cumulative projects). The APIS website (CEH, 2022) was consulted to identify any habitats or features of these designated sites that are sensitive to nitrogen dioxide (NO<sub>x</sub>), ammonia (NH<sub>3</sub>), nutrient nitrogen (N-dep) and acid deposition. Where sensitive habitats or features were found, the Critical Levels for NO<sub>x</sub> and NH<sub>3</sub> and Critical Loads for nutrient nitrogen and acid deposition were obtained.
2. **Section 22.4.3.3.6** of **Chapter 22 Air Quality** details the road traffic emission assessment methodology for ecological receptors, based on guidance in the recently released Joint Nature Conservation Committee (JNCC) reports (Chapman & Kite, 2021a and 2021b). As detailed in **Chapter 22 Air Quality**, several stages of screening were undertaken on the ecological receptors initially screened into the assessment (i.e. those within 200m of roads that experience an increase in 0.15% of 2019 AADT).
3. **Table 22.4.1** below details the Critical Level and Load values for all ecological receptors within 200m of the affected road network. These values were taken into consideration in the subsequent stages of screening, i.e. comparing AADT to those representative of a 1% increase or more in Critical Level or Load (see **Table 22.17** and **Table 22.18** of **Chapter 22 Air Quality**), detailed in **Chapter 22 Air Quality** and **Appendix 22.5 Air Quality Ecological Receptor Assessment Tables**. Reasons for the inclusion or exclusion of any ecological receptors within 200m of roads is provided in **Table 22.34** of **Chapter 22 Air Quality**.
4. **Figure 22.4** of **Chapter 22 Air Quality** shows the ecological receptors considered in the assessment.

Table 22.4.1: Designated Ecological Sites and Critical Level and Load Values

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
4	Ancient woodland	Bullfer Grove	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	11.017	10.875	0.142	11.017	10.875
	Ancient woodland	Pereers Wood	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.832	1.69	0.142	1.832	1.69
10	SSSI	Kelling Heath	<i>Calluna Vulgaris</i> - <i>Ulex Gallii</i> Heath	1 to 3	10 to 20	0.892	1.372	0.48	0.892	5.022	4.13
11	SSSI	Weybourne Town Pit**	N/A								
	Ancient woodland	Oak Wood	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.272	1.13	-	-	-
13	Ancient woodland	Unnamed (ID 1)	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.81	1.668	-	-	-
	SSSI	Felbrigg Wood	<i>Fagus Sylvatica</i> - <i>Deschampsia Flexuosa</i> Woodland	1 to 3	10 to 20	0.124	1.297	1.155	0.142	1.84	1.698
			Combinations of species - lichens	1	A						
			Invertebrate assemblage	1	B,D	C,D					
	Ancient woodland	Great Wood	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.297	1.155	-	-	-
Conifer (MAGIC)			1 to 3	5 to 15	0.142	1.297	1.155	-	-	-	
14	SSSI	Felbrigg Wood	<i>Fagus Sylvatica</i> - <i>Deschampsia Flexuosa</i> Woodland	1 to 3	10 to 20	0.124	1.297	1.155	0.142	1.84	1.698
20	SSSI	Ant Broads and Marshes	<i>Alnus glutinosa</i> - <i>Carex paniculata</i> Woodland	1 to 3	10 to 20	0.142	0.525	0.24	0.357	1.824	1.59

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Alnus glutinosa - Urtica dioica Woodland	1 to 3	10 to 20	0.142	0.525	0.24	0.357	1.824	1.59
			Carex Rostrata - Calliargon Cuspidatum/giganteum (Calliargonella Cuspidata/calliargon Giganteum) Mire	1	10 to 15	0.321	0.501	0.18	0.321	0.507	0.186
			Carex Rostrata - Potentilla Palustris Swamp	1 to 3	10 to 15	0.223	0.546	0.18	0.438	1.298	0.86
			Carex Rostrata - Sphagnum Squarrosum Mire	1	10 to 15	0.321	0.501	0.18	0.321	0.507	0.186
			Cladium Mariscus Swamp And Sedge-Beds	1 to 3	10 to 30	-	-	-	-	-	-
			Molinia Caerula - Cirsium Dissectum Fen-Meadow	1 to 3	15 to 30	0.223	0.546	0.18	0.438	1.298	0.86
			Phragmites Australis - Peucedanum Palustris Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-
			Salix Cinerea - Betula Pubescens - Phragmites Australis Woodland	1 to 3	10 to 20	0.142	0.525	0.24	0.357	1.824	1.59
			Liparis loeselii	3	10 to 20	0.856	4.856	4	1.071	5.071	4
			Liparis loeselii	3	10 to 20	0.856	4.856	4	1.071	5.071	4
			Vascular plant assemblage	3	B	C					
			Vascular plant assemblage	3	B	C					
			Invertebrate assemblage	3	B,C	C,D					
			Lowland open waters and their margins	-		A					

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
SAC	The Broads	Alkaline fens	1	15 to 30	-	-	-	-	-	-	-
		Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> ( <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i> )	1	B	-	-	-	-	-	-	-
		Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	1 to 3	15 to 30	-	-	-	-	-	-	-
		Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp	1 to 3	B	-	-	-	-	-	-	-
		Molinia meadows on calcareous, peaty or clayey-silt-laden soils ( <i>Molinion caeruleae</i> )	1 to 3	15 to 25	0.223	0.542	0.176	0.438	4.568	4.13	
		Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	1 to 3	B	-	-	-	-	-	-	-
		Transition mires and quaking bogs	1	10 to 15	0.321	0.497	0.176	0.321	0.528	0.207	
		<i>Liparis loeselii</i>	3	10 to 20	0.856	4.856	4	1.071	5.071	4	
		<i>Anisus vorticulus</i>	3	B,E	D						
		<i>Lutra lutra</i>	3	B,E	F						
		<i>Vertigo moulinsiana</i>	3	B,E	D						
SPA	Broadland	<i>Anas clypeata</i> (North-western/Central Europe)	3	B,E	-	-	-	-	-	-	



Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Anas penelope (Western Siberia/North-western/North-eastern Europe)	3	B,E	-	-	-	-	-	-	-
			Anas penelope (Western Siberia/North-western/North-eastern Europe)	3	20 to 30	-	-	-	-	-	-	-
			Anas strepera (North-western Europe)	3	B,E	-	-	-	-	-	-	-
			Botaurus stellaris (Europe - breeding)	3	15 to 30	-	-	-	-	-	-	-
			Circus aeruginosus	3	15 to 30	-	-	-	-	-	-	-
			Circus cyaneus	3	10 to 20	0.499	0.837	0.176	1.035	5.165	4.13	
			Circus cyaneus	3	15 to 30	-	-	-	-	-	-	-
			Circus cyaneus	3	20 to 30	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	3	B,E	-	-	-	-	-	-	-
			Cygnus cygnus (Iceland/UK/Ireland)	3	B,E	-	-	-	-	-	-	-

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
21			Cygnus cygnus (Iceland/UK/Ireland)	-	-	-	-	-	-	-	-	-
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.223	0.542	0.176	0.438	4.568	4.13	
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.856	4.856	4	1.071	5.071	4	
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	-	-	-	-	-	-	
	Ramsar	Broadland	N/A									
	SSSI	Trinity Broads	Alnus glutinosa - Carex paniculata Woodland	1 to 3	10 to 20	0.142	0.52	0.235	0.285	4.475	4.19	
			Cladium Mariscus Swamp And Sedge-Beds	1 to 3	15 to 30	-	-	-	-	-	-	
			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.551	0.185	0.366	4.486	4.12	
			Phragmites Australis - Peucedanum Palustris Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-	
			Salix Cinerea - Betula Pubescens - Phragmites Australis Woodland	1 to 3	10 to 20	0.142	0.52	0.235	0.285	4.475	4.19	
			Vascular plant assemblage	3	B	C						
			Vascular plant assemblage	3	B	-	-	-	-	-	-	
			Anas clypeata	-	B,E	-	-	-	-	-	-	
			Aythya ferina	3	B,E	-	-	-	-	-	-	
Aythya ferina			3	20 to 30	-	-	-	-	-	-		

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Aythya fuligula	3	B,E	-	-	-	-	-	-	-
			Aythya fuligula	3	20 to 30	-	-	-	-	-	-	-
			Botaurus stellaris	3	15 to 30	-	-	-	-	-	-	-
			Circus aeruginosus	3	15 to 30	-	-	-	-	-	-	-
			Invertebrate assemblage	3	B,D	C,D						
			Lowland open waters and their margins	-	A	A						
			Lutra lutra	3	B,E	F						
SAC	The Broads		Alkaline fens	1	15 to 30	-	-	-	-	-	-	-
			Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	1	B	-	-	-	-	-	-	-
			Calcareous fens with Cladium mariscus and species of the Caricion davallianae	1 to 3	15 to 30	-	-	-	-	-	-	-
			Hard oligo-mesotrophic waters with benthic vegetation of Chara spp	1 to 3	B	-	-	-	-	-	-	-
			Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	1 to 3	15 to 25	0.223	0.542	0.176	0.438	4.568	4.13	
			Natural eutrophic lakes with Magnopotamion or Hydrocharition - type vegetation	1 to 3	B	-	-	-	-	-	-	-

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Transition mires and quaking bogs	1	10 to 15	0.321	0.497	0.176	0.321	0.528	0.207
			Liparis loeselii	3	10 to 20	0.856	4.856	4	1.071	5.071	4
			Anisus vorticulus	3	B,E	D					
			Lutra lutra	3	B,E	F					
			Vertigo moulinsiana	3	B,E	D					
23	SPA	Outer Thames Estuary	N/A***								
24	SPA	Outer Thames Estuary	N/A***								
25	SSSI	Breydon Water	Zostera Communities	1 to 3	A						
			Vascular plant assemblage	3	B	C					
			Vascular plant assemblage	3	B	-	-	-	-	-	-
			Anas penelope	3	B,E	-	-	-	-	-	-
			Anas penelope	3	20 to 30	-	-	-	-	-	-
			Cygnus columbianus bewickii	-	A						
	Tadorna tadorna	3	20 to 30	-	-	-	-	-	-		
	SPA	Breydon Water	Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	3	B,E	-	-	-	-	-	-	-
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.223	1.103	0.88	0.438	4.568	4.13	
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	-	-	-	-	-	-	-
			Pluvialis apricaria [North-western Europe]	3	20 to 30	0.223	1.103	0.88	0.438	4.568	4.13	
			Pluvialis apricaria [North-western Europe]	3	20 to 30	0.856	4.856	4	1.071	5.071	4	
			Pluvialis apricaria [North-western Europe]	-	-	-	-	-	-	-	-	-
			Pluvialis apricaria [North-western Europe]	3	20 to 30	-	-	-	-	-	-	-
			Recurvirostra avosetta (Western Europe/Western Mediterranean - breeding)	3	20 to 30	-	-	-	-	-	-	-
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	B,E	0.223	1.103	0.88	0.438	4.568	4.13	
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	10 to 15	0.856	4.856	4	1.071	5.071	4	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	8 to 10	F					
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	10 to 20	-	-	-	-	-	-
			Vanellus vanellus (Europe - breeding)	3	20 to 30	-	-	-	-	-	-
			Vanellus vanellus (Europe - breeding)	-	-	-	-	-	-	-	-
	Ramsar	Breydon Water	N/A								
	LNR	Breydon Water	-	3	-	-	-	-	-	-	
	SPA	Outer Thames Estuary	N/A***								
28	Ancient woodland	Foxburrow Wood	Broadleaved (MAGIC)	1 to 3	10 to 20	0.357	1.846	1.489	-	-	-
30	Ancient woodland	Raveningham Covert	Broadleaved (MAGIC)	1 to 3	10 to 20	0.357	2.722	2.365	-	-	-
	Ancient woodland	Blacks Grove	Broadleaved (MAGIC)	1 to 3	10 to 20	0.357	2.722	2.365	-	-	-
	SSSI	Barnby Broad & Marshes	Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-
			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.559	0.193	0.438	4.568	4.13
			Molinia Caerula - Cirsium Dissectum Fen-Meadow	1 to 3	15 to 30	0.223	0.559	0.193	0.438	4.568	4.13
Vascular plant assemblage			3	B	c						
Vascular plant assemblage	3	B									

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Variety of breeding bird species (70)	-	A						
SAC	The Broads	Alkaline fens	1	15 to 30	-	-	-	-	-	-	
		Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> ( <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i> )	1	B	-	-	-	-	-	-	
		Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	1 to 3	15 to 30	-	-	-	-	-	-	
		Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp	1 to 3	B	-	-	-	-	-	-	
		<i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils ( <i>Molinion caeruleae</i> )	1 to 3	15 to 25	0.223	0.542	0.176	0.438	4.568	4.13	
		Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> - type vegetation	1 to 3	B	-	-	-	-	-	-	
		Transition mires and quaking bogs	1	10 to 15	0.321	0.497	0.176	0.321	0.528	0.207	
		<i>Liparis loeselii</i>	3	10 to 20	0.856	4.856	4	1.071	5.071	4	
		<i>Anisus vorticulus</i>	3	B,E	D						
		<i>Lutra lutra</i>	3	B,E	F						
		<i>Vertigo moulinsiana</i>	3	B,E	D						
SPA	Broadland	<i>Anas clypeata</i> (North-western/Central Europe)	3	B,E	-	-	-	-	-	-	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Anas penelope (Western Siberia/North-western/North-eastern Europe)	3	B,E	-	-	-	-	-	-	-
			Anas penelope (Western Siberia/North-western/North-eastern Europe)	3	20 to 30	-	-	-	-	-	-	-
			Anas strepera (North-western Europe)	3	B,E	-	-	-	-	-	-	-
			Botaurus stellaris (Europe - breeding)	3	15 to 30	-	-	-	-	-	-	-
			Circus aeruginosus	3	15 to 30	-	-	-	-	-	-	-
			Circus cyaneus	3	10 to 20	0.499	0.837	0.176	1.035	5.165	4.13	
			Circus cyaneus	3	15 to 30	-	-	-	-	-	-	-
			Circus cyaneus	3	20 to 30	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-
			Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	3	B,E	-	-	-	-	-	-	-
			Cygnus cygnus (Iceland/UK/Ireland)	3	B,E	-	-	-	-	-	-	-



Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
31			Cygnus cygnus (Iceland/UK/Ireland)	-	-	-	-	-	-	-	-	-
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.223	0.542	0.176	0.438	4.568	4.13	
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.856	4.856	4	1.071	5.071	4	
			Philomachus pugnax (Western Africa - wintering)	3	20 to 30	-	-	-	-	-	-	-
	Ramsar	Broadland	N/A									
	LNR	Whitlingham	-	3	-	-	-	-	-	-	-	-
	LNR	Whitlingham	-	3	-	-	-	-	-	-	-	-
	LNR	Whitlingham Marsh, Whitlingham	-	3	-	-	-	-	-	-	-	
34	SSSI	Damgate Marshes, Acle	Vascular plant assemblage - Vascular Plant Assemblage	3	B	c						
	SAC	The Broads	Alkaline fens	1	15 to 30	-	-	-	-	-	-	-
			Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> ( <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i> )	1	B	-	-	-	-	-	-	-
			Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	1 to 3	15 to 30	-	-	-	-	-	-	-
Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp			1 to 3	B	-	-	-	-	-	-	-	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	1 to 3	15 to 25	0.223	0.542	0.176	0.438	4.568	4.13
			Natural eutrophic lakes with Magnopotamion or Hydrocharition - type vegetation	1 to 3	B	-	-	-	-	-	-
			Transition mires and quaking bogs	1	10 to 15	0.321	0.497	0.176	0.321	0.528	0.207
			Liparis loeselii	3	10 to 20	0.856	4.856	4	1.071	5.071	4
			Anisus vorticulus	3	B,E	D					
			Lutra lutra	3	B,E	F					
			Vertigo moulinsiana	3	B,E	D					
	Ramsar	Broadland	N/A								
	SPA	Outer Thames Estuary	N/A***								
	SSSI	Breydon Water	Zostera Communities	1 to 3	A						
			Vascular plant assemblage	3	B	C					
			Vascular plant assemblage	3	B	-	-	-	-	-	-
			Anas penelope	3	B,E	-	-	-	-	-	-
Anas penelope			3	20 to 30	-	-	-	-	-	-	
		Cygnus columbianus bewickii	-	A							

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Tadorna tadorna	3	20 to 30	-	-	-	-	-	-	-
SPA	Breydon Water	Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-	-
		Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	-	-	-	-	-	-	-	-	-	-
		Cygnus columbianus bewickii (Western Siberia/North-eastern & North-western Europe)	3	B,E	-	-	-	-	-	-	-	-
		Philomachus pugnax (Western Africa - wintering)	3	20 to 30	0.223	1.103	0.88	0.438	4.568	4.13		
		Philomachus pugnax (Western Africa - wintering)	3	20 to 30	-	-	-	-	-	-	-	
		Pluvialis apricaria [North-western Europe]	3	20 to 30	0.223	1.103	0.88	0.438	4.568	4.13		
		Pluvialis apricaria [North-western Europe]	3	20 to 30	0.856	4.856	4	1.071	5.071	4		
		Pluvialis apricaria [North-western Europe]	-	-	-	-	-	-	-	-	-	
		Pluvialis apricaria [North-western Europe]	3	20 to 30	-	-	-	-	-	-	-	
		Recurvirostra avosetta (Western Europe/Western Mediterranean - breeding)	3	20 to 30	-	-	-	-	-	-	-	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	B,E	0.223	1.103	0.88	0.438	4.568	4.13
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	10 to 15	0.856	4.856	4	1.071	5.071	4
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	8 to 10	F					
			Sterna hirundo (Northern/Eastern Europe - breeding)	3	10 to 20	-	-	-	-	-	-
			Vanellus vanellus (Europe - breeding)	3	20 to 30	-	-	-	-	-	-
			Vanellus vanellus (Europe - breeding)	-	-	-	-	-	-	-	-
	Ramsar	Breydon Water	N/A								
	LNR	Breydon Water	-	3	-	-	-	-	-	-	-
35	Ancient woodland	Unnamed (ID 2)	Unknown, assumed conifer as worst-case	1 to 3	5 to 15	0.142	1.731	1.589	-	-	-
39	SSSI	Smallburgh Fen	N/A****								
	SAC	The Broads	N/A****								
	SPA	Broadland	N/A****								
	Ramsar	Broadland	N/A****								
40	Ancient woodland	Unnamed (ID 3)	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.733	1.591	-	-	-
	Ancient woodland	Sprowston Wood	Conifer (MAGIC)	1 to 3	5 to 15	0.142	1.732	1.59	-	-	-

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
43	Ancient woodland	Unnamed (ID 4)	Broadleaved (MAGIC)	1 to 3	10 to 20	0.285	1.05	0.765	-	-	-
49	SSSI	Buxton Heath	Calluna Vulgaris - Ulex Gallii Heath	1 to 3	10 to 20	0.642	0.882	0.24	0.892	1.782	0.89
			Erica Tetralix - Sphagnum Compactum Wet Heath	1	10 to 20	0.642	0.882	0.24	0.892	1.782	0.89
			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.606	0.24	0.366	1.113	0.89
			Molinia Caerula - Cirsium Dissectum Fen-Meadow	1 to 3	15 to 30	0.223	0.606	0.24	0.366	1.113	0.89
			Schoenus Nigricans - Juncus Subnodulosus Mire	1	15 to 30	-	-	-	-	-	-
			Invertebrate assemblage	3	B,D	C,D					
			Plebejus argus	-	A						
	SAC	Norfolk Valley Fens	Alkaline fens	1	15 to 30	-	-	-	-	-	-
			Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	1	-	-	-	-	-	-	-
			Calcareous fens with Cladium mariscus and species of the Caricion davallianae	1 to 3	15 to 30	-	-	-	-	-	-
European dry heaths			1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	1 to 3	15 to 25	0.223	0.606	0.23	0.438	4.383	4.16
			Northern Atlantic wet heaths with Erica tetralix	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
			Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	1	15 to 25	0.856	4.856	4	1.107	5.071	4
			Vertigo angustior	3	20 to 30	0.856	4.856	4	1.107	5.071	4
			Vertigo angustior	3	5 to 10	-	-	-	-	-	-
			Vertigo moulinsiana	3	B	D					
50	Ancient woodland	Great Wood	Conifer (MAGIC)	1 to 3	5 to 15	0.142	1.266	1.124	-	-	-
	Ancient woodland	Unnamed (ID 5)	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.796	1.645	-	-	-
	SSSI	Cawston and Marsham Heaths	Calluna Vulgaris - Ulex Gallii Heath	1 to 3	10 to 20	0.892	1.382	0.49	0.892	1.782	0.89
51	SSSI	Cawston and Marsham Heaths	Calluna Vulgaris - Ulex Gallii Heath	1 to 3	10 to 20	0.892	1.382	0.49	0.892	1.782	0.89
59	SSSI	Holt Lowes	Calluna Vulgaris - Ulex Gallii Heath	1 to 3	10 to 20	0.892	1.382	0.49	0.892	1.782	0.89

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
SAC			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.713	0.49	0.223	1.113	0.89	
			Schoenus Nigricans - Juncus Subnodulosus Mire	1	15 to 30	-	-	-	-	-	-	
			Schoenus Nigricans - Narthecium Ossifragum Mire	1	10 to 15	0.321	0.543	0.222	0.321	0.549	0.228	
			Invertebrate assemblage	3	B,D	C,D						
	Norfolk Valley Fens			Alkaline fens	1	15 to 30	-	-	-	-	-	-
				Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	1	-	-	-	-	-	-	-
				Calcareous fens with Cladium mariscus and species of the Caricion davallianae	1 to 3	15 to 30	-	-	-	-	-	-
				European dry heaths	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
				Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	1 to 3	15 to 25	0.223	0.606	0.23	0.438	4.383	4.16
				Northern Atlantic wet heaths with Erica tetralix	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
				Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	1	15 to 25	0.856	4.856	4	1.107	5.071	4

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Vertigo angustior	3	20 to 30	0.856	4.856	4	1.107	5.071	4
			Vertigo angustior	3	5 to 10	-	-	-	-	-	-
			Vertigo moulinsiana	3	B	D					
60	SSSI	Holt Lowes	Calluna Vulgaris - Ulex Gallii Heath	1 to 3	10 to 20	0.892	1.382	0.49	0.892	1.782	0.89
			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.713	0.49	0.223	1.113	0.89
			Schoenus Nigricans - Juncus Subnodulosus Mire	1	15 to 30	-	-	-	-	-	-
			Schoenus Nigricans - Narthecium Ossifragum Mire	1	10 to 15	0.321	0.543	0.222	0.321	0.549	0.228
			Invertebrate assemblage	3	B,D	C,D					
	SAC	Norfolk Valley Fens	Alkaline fens	1	15 to 30	-	-	-	-	-	-
			Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	1	-	-	-	-	-	-	-
			Calcareous fens with Cladium mariscus and species of the Caricion davallianae	1 to 3	15 to 30	-	-	-	-	-	-
			European dry heaths	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
			Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	1 to 3	15 to 25	0.223	0.606	0.23	0.438	4.383	4.16



Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Northern Atlantic wet heaths with Erica tetralix	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
			Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	1	15 to 25	0.856	4.856	4	1.107	5.071	4
			Vertigo angustior	3	20 to 30	0.856	4.856	4	1.107	5.071	4
			Vertigo angustior	3	5 to 10	-	-	-	-	-	-
			Vertigo moulinsiana	3	B	D					
69	Ancient woodland	Mileplain Plantation	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.276	1.134	-	-	-
79	SSSI	River Wensum	Carex Acutiformis Swamp	1 to 3	-	-	-	-	-	-	-
			Carex Paniculata Swamp	1 to 3	15 to 30	-	-	-	-	-	-
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-
			Phragmites Australis Swamp And Reed-Beds	1 to 3	15 to 30	-	-	-	-	-	-
			Austropotamobius pallipes	3	B,E	D					
	Vertigo moulinsiana	3	B,E	D							
	SAC	River Wensum	Water courses of plain to montane levels with the Ranunculion fluitantis	-	B	C					

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			and Callitricho-Batrachion vegetation (H3260)									
			Vertigo moulinsiana - Desmoulin's whorl snail (S1016)	3	B,E					D		
			Austropotamobius pallipes - White-clawed (or Atlantic stream) crayfish (S1092)	3	B,E					D		
			Lampetra planeri - Brook lamprey (S1096)	3	B,E					F		
			Cottus gobio - Bullhead (S1163)	3	B,E					F		
80	SSSI	River Wensum	Carex Acutiformis Swamp	1 to 3	-	-	-	-	-	-	-	-
			Carex Paniculata Swamp	1 to 3	15 to 30	-	-	-	-	-	-	-
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-	-
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-	-
			Phragmites Australis Swamp And Reed-Beds	1 to 3	15 to 30	-	-	-	-	-	-	-
			Austropotamobius pallipes	3	B,E						D	
	Vertigo moulinsiana	3	B,E						D			
	SAC	River Wensum	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation (H3260)	-	B					C		

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
			Vertigo moulinsiana - Desmoulin`s whorl snail (S1016)	3	B,E	D						
			Austropotamobius pallipes - White-clawed (or Atlantic stream) crayfish (S1092)	3	B,E	D						
			Lampetra planeri - Brook lamprey (S1096)	3	B,E	F						
			Cottus gobio - Bullhead (S1163)	3	B,E	F						
	SSSI	River Wensum	Carex Acutiformis Swamp	1 to 3	-	-	-	-	-	-	-	-
			Carex Paniculata Swamp	1 to 3	15 to 30	-	-	-	-	-	-	-
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-	-
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-	-
			Phragmites Australis Swamp And Reed-Beds	1 to 3	15 to 30	-	-	-	-	-	-	-
			Austropotamobius pallipes	3	B,E	D						
			Vertigo moulinsiana	3	B,E	D						
	SAC	River Wensum	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation (H3260)	-	B	C						
			Vertigo moulinsiana - Desmoulin`s whorl snail (S1016)	3	B,E	D						

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Austropotamobius pallipes - White-clawed (or Atlantic stream) crayfish (S1092)	3	B,E	D					
			Lampetra planeri - Brook lamprey (S1096)	3	B,E	F					
			Cottus gobio - Bullhead (S1163)	3	B,E	F					
82	Ancient woodland	Primrose Grove	Broadleaved (MAGIC)	1 to 3	10 to 20	0.142	1.276	1.134	-	-	-
85	Ancient woodland	Mouse Wood	Unknown, assumed conifer as a worst-case	1 to 3	5 to 15	0.142	10.98	10.84	-	-	-
86	SSSI	Holly Farm Meadow, Wendling	Cynosurus Cristatus - Caltha Palustris Grassland	3	20 to 30	0.223	0.698	0.26	0.438	4.383	4.16
			Cynosurus Cristatus - Caltha Palustris Grassland	3	20 to 30	0.856	4.856	4	1.071	5.071	4
			Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	0.698	0.26	0.438	4.383	4.16
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-
	SSSI	Potter & Scarning Fens, East Dereham	Juncus Subnodulosus - Cirsium Palustre Fen Meadow	1 to 3	15 to 30	0.223	4.383	4.16	0.223	4.383	4.16
			Schoenus Nigricans - Juncus Subnodulosus Mire	1 to 3	15 to 30	-	-	-	-	-	-
			Ceriagrion tenellum	-		A					
Invertebrate assemblage			3	B,D	C,D						

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
	SAC	Norfolk Valley Fens	Alkaline fens	1	15 to 30	-	-	-	-	-	-
			Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> ( <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i> )	1	-	-	-	-	-	-	-
			Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	1 to 3	15 to 30	-	-	-	-	-	-
			European dry heaths	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
			Molinia meadows on calcareous, peaty or clayey-silt-laden soils ( <i>Molinion caeruleae</i> )	1 to 3	15 to 25	0.223	0.606	0.23	0.438	4.383	4.16
			Northern Atlantic wet heaths with <i>Erica tetralix</i>	1	10 to 20	0.499	0.882	0.23	1.107	5.042	4.16
			Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)	1	15 to 25	0.856	4.856	4	1.107	5.071	4
			<i>Vertigo angustior</i>	3	20 to 30	0.856	4.856	4	1.107	5.071	4
			<i>Vertigo angustior</i>	3	5 to 10	-	-	-	-	-	-
			<i>Vertigo moulinsiana</i>	3	B	D					
87	SSSI	East Winch Common	Calluna Vulgaris - Festuca Ovina Heath	1	10 to 20	0.499	0.944	0.23	0.714	4.629	4.13
			Erica Tetralix - Sphagnum Compactum Wet Heath								

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
	SSSI	River Nar**	N/A**									
88	Ancient woodland	Reffley Wood	Conifer (MAGIC)	1 to 3	5 to 15	0.357	8.631	8.274	0.357	8.631	8.274	
			Broadleaved (MAGIC)	1 to 3	10 to 20							
96	LNR	Wensum Valley (Mile Cross Marsh and Sycamore Crescent)	-	3	-	-	-	-	-	-	-	
	SSSI	Sweetbriar Road Meadows, Norwich	Cynosurus Cristatus - Caltha Palustris Grassland	3	20 to 30	0.223	0.703	0.48	0.223	1.103	0.88	
			Cynosurus Cristatus - Caltha Palustris Grassland	3	20 to 30	0.856	4.856	4	0.856	4.856	4	
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-	
114	Ancient woodland	Unnamed (ID 6)	Broadleaved (MAGIC)	1 to 3	10 to 20	0.357	2.735	2.378	-	-	-	
	Ancient woodland	Smeeth Wood	Broadleaved (MAGIC)	1 to 3	10 to 20							
121	SSSI	Eaton Chalk Pit	Mixed Species	3	B,D	C,D						
125	LNR	Danby Wood	-	3	-	-	-	-	-	-	-	
	LNR	Marston Marshes	-	3	-	-	-	-	-	-	-	
129	SSSI	Caistor St. Edmund Chalk Pit**	N/A**									

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load							
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition						
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS	
133	SSSI	River Wensum	Carex Acutiformis Swamp	1 to 3	-	-	-	-	-	-	-	-
			Carex Paniculata Swamp	1 to 3	15 to 30	-	-	-	-	-	-	-
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-	-
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-	-
			Phragmites Australis Swamp And Reed-Beds	1 to 3	15 to 30	-	-	-	-	-	-	-
			Austropotamobius pallipes	3	B,E	D						
			Vertigo moulinsiana	3	B,E	D						
	SAC	River Wensum	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation (H3260)	-	B	C						
			Vertigo moulinsiana - Desmoulin's whorl snail (S1016)	3	B,E	D						
			Austropotamobius pallipes - White-clawed (or Atlantic stream) crayfish (S1092)	3	B,E	D						
			Lampetra planeri - Brook lamprey (S1096)	3	B,E	F						
Cottus gobio - Bullhead (S1163)			3	B,E	F							
136	SSSI	Alderford Common	Cynosurus Cristatus - Centaurea Nigra Grassland	3	20 to 30	0.223	0.723	0.5	-	-	-	

Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Cynosurus Cristatus - Centaurea Nigra Grassland	3	20 to 30	0.856	4.856	4	-	-	-
			Mixed: scrub, woodland	-	-						
138	SSSI	Alderford Common	Cynosurus Cristatus - Centaurea Nigra Grassland	3	20 to 30	0.223	0.723	0.5	-	-	-
			Cynosurus Cristatus - Centaurea Nigra Grassland	3	20 to 30	0.856	4.856	4	-	-	-
			Mixed: scrub, woodland	-	-						
150	SSSI	River Wensum	Carex Acutiformis Swamp	1 to 3	-	-	-	-	-	-	-
			Carex Paniculata Swamp	1 to 3	15 to 30	-	-	-	-	-	-
			Glyceria Maxima Swamp	1 to 3	-	-	-	-	-	-	-
			Phragmites Australis - Eupatorium Cannabinum Tall-Herb Fen	1 to 3	15 to 30	-	-	-	-	-	-
			Phragmites Australis Swamp And Reed-Beds	1 to 3	15 to 30	-	-	-	-	-	-
			Austropotamobius pallipes	3	B,E						D
			Vertigo moulinsiana	3	B,E						D
	SAC	River Wensum	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation (H3260)	-	B						C
		Vertigo moulinsiana - Desmoulin's whorl snail (S1016)	3	B,E						D	



Link	Designated Ecological Site		Feature Name(s) <sup>1</sup>	Critical Level	Critical Load						
	Site Type	Name		NH <sub>3</sub>	N-dep	Acid deposition					
				µg.m <sup>-3</sup>	kgN.ha <sup>-1</sup> .yr <sup>-1</sup>	MinCL minN	MinCL MaxN	MinCL MaxS	MaxCL minN	MaxCL MaxN	MaxCL MaxS
			Austropotamobius pallipes - White-clawed (or Atlantic stream) crayfish (S1092)	3	B,E	D					
			Lampetra planeri - Brook lamprey (S1096)	3	B,E	F					
			Cottus gobio - Bullhead (S1163)	3	B,E	F					

<sup>1</sup>Feature name(s) may be repeated in the table as a feature may have more than one nitrogen/acid Critical Load classes within them  
 \*Road goes over/through designated site boundary. However, sensitive habitats may not be located this close to the road/be present.  
<sup>A</sup>No critical load has not assigned for this feature, please seek site specific advice  
<sup>B</sup>No comparable habitat with established critical load estimate available  
<sup>C</sup>No Comparable Acidity Class  
<sup>D</sup>Decision to be taken at a site specific level.  
<sup>E</sup>Decision to be taken at a site specific level since habitat sensitivity depends on N or P limitation.  
<sup>F</sup>Potential negative impact on species due to impacts on the species' broad habitat.



## References

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