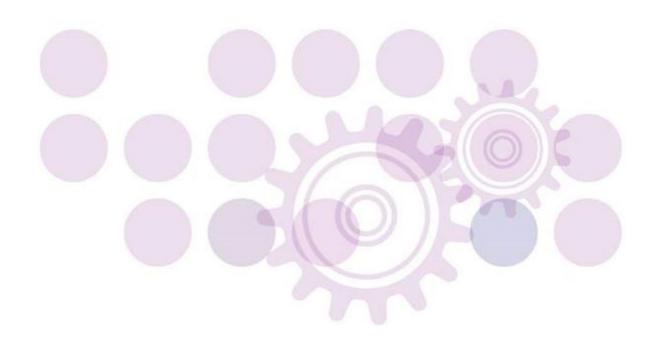


Draft Biodiversity and Nature Conservation SPD Annexes January 2022

Draft for public consultation





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ANNEX 1 UK legislation and international conventions

UK legislation

Conservation of	Local Planning Authorities have the duty, by virtue of being defined as 'competent authorities' under the Habitats Regulations, to
Habitats and Species	ensure that planning application decisions comply with the Habitats Regulations. If the requirements of the Habitats Regulations are
Regulations 2017 (as amended)	not met and impacts (direct and indirect) on Habitats Sites are not avoided or mitigated, then development must not be permitted.
	The aim of the Habitats Regulations Assessment process is to maintain or restore, at favourable conservation status, natural habitats and species of wild fauna and flora of the National Network of sites. Regulations 9 (1) and 9 (5) of Conservation of Habitats & Species Regulations 2017 (as amended) state that nothing in these Regulations is to be construed as excluding the application of the provisions of Part 1 of the Wildlife & Countryside Act 1981 (wildlife) in relation to animals or plants also protected under Part 3, 4 or 5 of these Regulations.
	The Regulations establish the process for identifying, designating and conserving Special Areas of Conservation (SACs) such as Castle Hill SAC, north of Woodingdean. Detailed guidance for development proposals which may affect SACs is provided in Part 1 of ODPM Circular 06/2005,
	Where a Habitats site could be affected by a plan, such as a Local Plan, or any project, such as a new development, then Habitats Regulations Assessment screening must be undertaken. If this cannot rule out any possible likely significant effect on a Habitats site, either alone or in combination with other plans & projects, prior to the consideration of mitigation measures, then an Appropriate Assessment must then be undertaken. The Appropriate Assessment identifies the interest features of the site (such as birds, plants or coastal habitats), how these could be harmed, assesses whether the proposed plan or project could have an adverse effect on the integrity of the Habitats site (either alone or in-combination), and finally how this could be mitigated to meet the Stage 2 Habitats Regulations Assessment "integrity" test. Natural England must be formally consulted on all Appropriate Assessments and no decision issued until their comments have been considered.
	Where species are of international importance (listed in the Habitats Regulations as European Protected Species), they have additional protection. For any development which could impact on European Protected Species e.g. demolition of a structure or works which cut into a roof where bats could be roosting, the Local Planning Authority requires certainty of likely impacts & that mitigation can be secured either by a condition of any consent or a mitigation licence from Natural England, before making a decision.
Wildlife and	The Wildlife and Countryside Act 1981 includes Schedules of protected animals (1 & 5) and plants (Schedule 8) and invasive species
Countryside Act	(Schedule 9). Annex 1 of this SPD includes the species listed in Schedules 1, 5 and 8 of the Wildlife & Countryside Act which could occur

	 The following offences are of relevance to development control: Subject to exceptions, it is a criminal offence to intentionally kill, injure, or take any wild bird or their eggs or nests. Special penalties are available for offences related to birds listed on Schedule 1, for which there are additional offences of intentionally or recklessly disturbing these birds at their nests, or their dependent young. Subject to exceptions, it is a criminal offence to intentionally or recklessly kill, injure, or take, possess, or trade in any wild animal listed in Schedule 5. The Act also prohibits interference with places used by them for shelter or protection and intentional or reckless disturbance to animals occupying such places. Subject to exceptions, to pick, uproot, or possess (for the purposes of trade) any wild plant listed in Schedule 8. The Act also prohibits the unauthorised intentional uprooting of such plants. The Act also contains measures for preventing the establishment of non-native species which may be detrimental to native wildlife, including prohibition of the release of animals and the introduction of a plant to the wild or to otherwise cause it to grow or spread the plants listed in Schedule 9. A species of particular concern in the Brighton and Hove context is Japanese Knotweed (Fallopia japonica / Polygonum cuspidatum). Applicants will be expected to demonstrate that they have taken all reasonable steps and exercised all due diligence to ensure Schedule 9 species are not permitted to grow as part of the implementation of planning permission and are not included in landscaping schemes e.g. cotoneaster species (Cotoneaster spp). Planning conditions and obligations can be used to ensure adequate
Natural Environment and Rural Communities Act 2006	measures are taken. Section 40 of the Natural Environments and Rural Communities (NERC) Act Part 1 (as amended by the Environment Act, 2021) requires all public bodies including Local Planning Authorities, in exercising its functions, to have regard, as far as is consistent with the proper exercise of those functions, to the purpose of conserving and enhancing biodiversity. The Environment Act strengthens this general biodiversity duty to include enhancement in addition to conservation. The amendment will require public authorities to actively carry out strategic assessments of the actions they can take to conserve and enhance biodiversity. Designated public authorities will also be required to produce a five-yearly report on the actions taken to comply with the new duty.
Environment Act 2021	The Environment Act sets out to deliver long-term targets to improve air quality, biodiversity, water, and waste reduction and resource efficiency and includes a target to halt the decline of nature by 2030 in line with PART 6 Nature and biodiversity. Mandatory biodiversity net gain is set out in the Schedule 14 of the Act through the provision for biodiversity gain to be a condition of planning permission in England by amending the Town & Country Planning Act (TCPA) and is likely to become law in 2023. The Act sets out the following key components to mandatory BNG: • Minimum 10% gain required calculated using Biodiversity Metric & approval of net gain plan

	 Habitat secured for at least 30 years via obligations/ conservation covenant
	Habitat can be delivered on-site, off-site or via statutory biodiversity credits
	There will be a national register for net gain delivery sites
	The mitigation hierarchy still applies of avoidance, mitigation and compensation for biodiversity loss
	Will apply to Nationally Significant Infrastructure Projects (NSIPs)
	Does not apply to marine development
	Does not change existing legal environmental and wildlife protections
	Part 6 Nature and Biodiversity Clause 102 strengthens the NERC biodiversity duty by adding the word 'enhance'. Clause 103 requires a
	public authority to publish biodiversity reports.
	The Act also introduces a new system of spatial plans aiming to boost biodiversity and protect valuable habitats. Local Nature Recovery
	Strategies (LNRSs) are spatial strategies for nature, and will cover the whole of England. 'Responsible Authorities' will be appointed by
	the government and will be responsible for mapping the most valuable existing habitat for nature, mapping specific proposals for
	creating or improving habitat, and agree priorities for nature's recovery.
Countryside and	Amongst other things, the CRoW Act strengthens the protection afforded to Sites of Special Scientific Interest, including greater powers
Rights of Way Act	for Natural England to be able to secure their appropriate management and a requirement for Local Authorities to further their
2000 (CRoW)	conservation and enhancement under Schedule 9. There are two SSSIs in Brighton and Hove; Castle Hill (also a SAC) and Brighton to
	Newhaven Cliffs. Schedule 12 of the Act strengthens the legal protection for threatened species. This includes making certain offences
	'arrestable', and creating an offence of reckless disturbance.
Town and Country	These regulations set out the procedures for making Tree Preservation Orders (TPOs) and the activities that are prohibited in
Planning (Tree	relation to trees protected by these orders. Tree Preservation Orders can be made for trees or groups of trees because of their
Preservation)	nature conservation value, as well as for their amenity value.
(England)	
Regulations 2012	
Protection of	The Act makes it an offence to interfere with a badger sett, whether by obstructing the entrance, destroying the sett or in any way
Badgers Act 1992	disturbing the occupant. The 1992 Act defines a badger sett as: "any structure or place which displays signs indicating current use
	by a badger". The onus is on the defendant to prove they were not attempting to kill, injure or take the badger, rather than on the
	police to prove that they were.
Crime & Disorder Act	Section 17 of the Act states the duty for local authorities to consider crime and disorder implications when exercising its various
1998	functions with due regard to the likely effect and the need to do all that it reasonably can to prevent crime & disorder in its area.
Land Drainage Act	Section 23 consent is a legal requirement for any works which will affect the flow of water or cross-sectional area of an ordinary
1991	watercourse i.e. not main river. This includes proposed culverting or piping of water and discharge of water into an ordinary
	watercourse.
	•

International Conventions for biodiversity

Bonn Convention	The Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention or CMS) was adopted in Bonn, Germany in 1979 and came into force in 1983. As a signatory since 1985, the UK Government works with others to conserve migratory species and their habitats by providing strict protection for endangered migratory species. The legal requirement for the strict protection of Appendix I species is provided by the Wildlife & Countryside Act (1981 as amended). In addition, the Countryside and Rights of Way Act 2000 (CRoW) enacted in England and Wales, strengthens the protection of certain species by increasing penalties and enforcement powers; and strengthened the protection of sites from damage caused by third parties.
Bern Convention	The Convention on the Conservation of European Wildlife and Natural Habitats (the Bern Convention) was adopted in Bern, Switzerland in 1979, and came into force in 1982. As the UK Government a signatory, this is a binding international legal instrument for nature conservation. The principal aims of this Convention are to ensure conservation and protection of wild plant and animal species and their natural habitats (listed in Appendices I and II of the Convention), to increase co-operation between contracting parties, and to regulate the
	exploitation of migratory species listed in Appendix III. To this end the Convention imposes legal obligations on contracting parties, protecting over 500 wild plant species and more than 1,000 wild animal species.
Ramsar Convention	The Convention on Wetlands of International Importance especially as Waterfowl Habitat ('Ramsar Convention' or 'Wetlands Convention') was adopted in Ramsar, Iran in February 1971 and came into force in December 1975. It provides the only international mechanism for protecting sites of global importance and is thus of key conservation significance.

ANNEX 2: City Plan policies supported by this SPD

The policies from the City Plan Part 1 and Part 2 that include an aim to conserve and enhance biodiversity are set out below. Full wording of these policies is available on the Council website.

Brighton & Hove City Plan Part 1	Brighton & Hove City Plan Part 2
SS1 Presumption in Favour of Sustainable Development	DM18 High Quality Design and Places
DA1 Brighton Centre and Churchill Square Area	DM22 Landscape Design and Trees
DA2 Brighton Marina, Gas Works and Black Rock Area	DM32 The Royal Pavilion Estate
DA3 Lewes Road	DM37 Green Infrastructure and Nature Conservation
DA4 New England Quarter and London Road Area	DM38 Local Green Spaces
DA5 Eastern Road and Edward Street	DM40 Protection of the Environment and Health – Pollution and Nuisance
DA6 Hove Station Area	DM42 Protecting the Water Environment
DA7 Toad's Hole Valley	DM43 Sustainable Drainage
SA1 The Seafront	SA7 Benfield Valley
SA3 Valley Gardens	SSA1 Brighton General Hospital Site, Elm Grove, Freshfield Road
·	SSA2 Combined Engineering Depot, New England Road
SA4 Urban Fringe	SSA3 Land at Lyon Close, Hove
SA6 Sustainable Neighbourhoods	SSA4 Sackville Trading Estate and Coal Yard
SA5 The Setting of the South Downs National Park	SSA5 Madeira Terrace and Madeira Drive
CP8 Sustainable Buildings	SSA6 Former Peter Pan leisure site (adjacent Yellow Wave), Madeira Drive
CP10 Biodiversity	SSA7 Land Adjacent to American Express Community Stadium, Village Way
CP11 Flood Risk	H2 Housing Sites – Urban Fringe
CP12 Urban Design	
CP13 Public Streets and Spaces	

ANNEX 3: Priority habitats and species in Brighton and Hove

The tables in this Annex list Priority habitats and species which are known to occur in Brighton and Hove. It can be used as a useful resource to help assess the biodiversity value of a development site and whether any habitats or species are likely to be present and therefore may be affected by a development proposal.

'NERC Section 41' refers to Section 41 of the Act 2006. This Section of the Natural Environments and Rural Communities Act requires the Secretary of State to publish a list of the living organisms and types of habitat which in the Secretary of State's opinion are of principal importance for the purpose of conserving biodiversity in England. The species and habitats with a 'Y' in this column are included in those lists.

Tables 3.1 and 3.2 relate to species and Tables 3.3 and 3.4 list habitats, including several urban habitat types which may not have specific recognition by the national list of Priority habitats as listed in Section 41 of the Natural Environment & Rural Communities Act (2006). Some have particular value in the context of Brighton and Hove and should therefore be considered for retention wherever possible.

The tables should not be regarded as comprehensive for the purposes of development control. For example, a variety of biodiversity features can occur, such as particularly large, old trees, which are not listed below but may support bats so should nevertheless be conserved where possible as part of development proposals and surveyed if likely to be affected.

Table 3.1 Priority species

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Adder	Vipera berus	W&C Act Schedule 5 Killing & injuring S.9(1) (part); sale S.9(5)	Y		Υ
Adonis Blue butterfly	Lysandra bellargus	W&C Act Schedule 5 (Sale only S.9(5))	Υ		
Aquatic Warbler	Acrocephalus paludicola	Red List Bird Global post 2001 Vulnerable status	Υ		
Balearic Shearwater	Puffinus mauretanicus	Red List Bird Global post 2001 Critically Endangered, Red list Bird of conservation concern	Y		
Basil Thyme	Clinopodium acinos	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable	Υ		
Bats – all species	Vespertilionidae and Rhinolophidae	W&C Act Schedule 5, (full protection) Habitats Regs Sch. 2; Barbastelle Appendix II Bern and Bonn Conventions	Soprano Pipistrelle, Brown Long-eared, Barbastelle & Lesser	Pipistrelle	Υ
Daniel Charles		For a Control of the	horseshoe.		
Beaded Chestnut	Agrochola lychnidis	For national research purposes only	Υ		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
(moth)					
Bewick's Swan	Cygnus columbianus bewickii	W&C Act Schedule 1; Amber list Bird of conservation concern	Υ		
Bittern	Botaurus stellaris	W&C Act Schedule 1; Amber list Bird of conservation concern, Notable Bird	Υ		
Black-headed Mason Wasp	Odynerus melanocephalus	Notable A	Υ		
Blood-vein (moth)	Timandra comae	For national research purposes only	Υ		
Bordered Gothic	Sideridis reticulata		Υ		
Bottle-nosed Dolphin	Tursiops truncatus		Υ		
Brindled Beauty	Lycia hirtaria	For national research purposes only	Υ		
Broom Moth	Ceramica pisi	For national research purposes only	Υ		
Brown-banded Carder- bee	Bombus humilis	Sussex Rare	Υ		Y
Brown Galingale	Cyperus fuscus	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare	Υ		
Brown Hairstreak	Thecla betulae	W&C Act Schedule 5 (Sale only S.9(5); Red List GB post 2001 Vulnerable, Sussex Rare	Υ		
Brown Hare	Lepus europaeus		Υ	Υ	
Brown-spot Pinion (moth)	Agrochola litura	For national research purposes only	Υ		
Buff Ermine	Spilosoma lutea	For national research purposes only	Υ		
Bullfinch	Pyrrhula pyrrhula	Amber list Bird of conservation concern, Notable Bird	Υ		
Burnt Orchid	Neotinea ustulata	Red List GB post 2001 Endangered, Red List ENG post 2001 Endangered, Nationally Scarce, Sussex Rare	Υ		
Centre-barred Sallow	Atethmia centrago	For national research purposes only	Υ		
Chalk Carpet	Scotopteryx bipunctaria	·	Υ		
Chalk-hill Lance-wing	Epermenia insecurella		Υ		
Chalk Planthopper	Eurysanoides douglasi	Notable A, Sussex Rare	Υ		
Chamomile	Chamaemelum nobile	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Sussex Rare	Υ		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Cinnabar	Tyria jacobaeae	For national research purposes only	Υ		
Cirl Bunting	Emberiza cirlus	Red list Bird of conservation concern, Notable Bird	Υ		
Cod	Gadus morhua	Brighton Marina	Υ		
Common Lizard	Lacerta vivipara	WCA Sch5 s9.1/s9.1 kill/s9.5a	Υ		
Common Porpoise	Phocoena phocoena	Habs Regs Sch2, W&C Act Sch5 s9.4a/s9.5a; Sussex Rare	Υ		
Common Reed Bunting	Emberiza schoeniclus	Amber list Bird of conservation concern, Notable Bird	Υ		
Common Redpoll	Acanthis flammea	Amber list Bird of conservation concern	Υ		
Common Sandpiper	Actitis hypoleucos	Amber list Bird of conservation concern, Notable Bird	Υ		
Common Seal	Phoca vitulina		Υ		
Common Scoter	Melanitta nigra	Red list Bird of conservation concern	Υ		
Common Toad	Bufo bufo	W&C Act Schedule 5 sale S.9(5)a	Υ		
Corn Bunting	Miliaria calandra	Red list Bird of conservation concern, Notable Bird	Υ		
Corn Buttercup	Ranunculus arvensis	Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Endangered, Sussex Rare	Υ		
Corn Cleavers	Galium tricornutum	Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Nationally Rare, Sussex Rare	Υ		
Corn Flower	Centaurea cyanus	Sussex Rare	Υ		
Crescent (moth)	Helotropha leucostigma	Sussex Rare	Υ		
Crested Cow-wheat	Melampyrum cristatum	Red List GB post 2001 Endangered, Red List ENG post 2001 Endangered, Nationally Rare	Υ		
Cuckoo	Cuculus canorus	Red list Bird of conservation concern, Notable Bird	Υ		
Curlew	Numenius arquata	Red List Global post 2001 Near Threatened, Red List Bird of conservation concern, Notable Bird	Υ		
Dark-barred Twin-spot Carpet	Xanthorhoe ferrugata	For national research purposes only	Υ		
Dark Crimson Underwing	Catocala sponsa	Red List GB Pre94 Rare	Υ		
Deep-brown Dart	Aporophyla lutulenta	For national research purposes only	Υ		
Deptford Pink	Dianthus armeria	Red List GB post 2001 Endangered, Red List ENG post 2001 Endangered, Nationally Scarce, Sussex Rare	Υ		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Dingy Skipper	Erynnis tages	Red List GB post 2001 Vulnerable	Υ		Υ
Divided Sedge	Carex divisa	Red List GB post 2001 Vulnerable, Nationally Scarce, Sussex Rare	Υ		
Dot Moth	Melanchra persicariae	For national research purposes only	Υ		
Dunnock	Prunella modularis	Amber list Bird of conservation concern, Notable Bird	Υ		
Dusky Dart (moth)	Euxoa tritici		Υ		
Dusky-lemon Sallow	Cirrhia gilvago	Sussex Rare	Υ		
Dusky Thorn (moth)	Ennomos fuscantaria	For national research purposes only	Υ		
Dusty Brocade	Apamea remissa	For national research purposes only	Υ		
Ear Moth	Amphipoea oculea	For national research purposes only	Υ		
Early Gentian	Gentianella anglica	Sussex Rare	Υ		
European Eel	Anguilla anguilla	Red List Global post 2001 Critically Endangered	Υ		
Eyebright	Euphrasia pseudokerneri	Red List GB post 2001 Endangered, Red List ENG post 2001 Vulnerable, Nationally Scarce, Sussex Rare	Υ		
Feathered Gothic	Tholera decimalis	For national research purposes only	Υ		
Field Fleawort	Tephroseris integrifolia subsp. integrifolia	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Scarce, Sussex Rare	Υ		
Field Gentian	Gentianella campestris	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Endangered, Sussex Rare	Υ		
Floating Water- plantain	Luronium natans	Red List ENG post 2001 Near Threatened, Nationally Scarce	Υ		
Fly Orchid	Ophrys insectifera	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable	Υ		
Forester (moth)	Adscita statices	Sussex Rare	Υ		
Four-spotted	Tyta luctuosa	Red List GB Pre94 Vulnerable	Υ		
Frog orchid	Coeloglossum viride	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable	Υ		
Galium Carpet (moth)	Epirrhoe galiata	For national research purposes only	Υ		
Garden Dart (moth)	Euxoa nigricans	For national research purposes only	Υ		
Garden Tiger (moth)	Arctia caja	For national research purposes only	Υ		
Ghost Moth	Hepialus humuli	For national research purposes only	Υ		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Grape Hyacinth	Muscari neglectum	Nationally Rare	Υ		
Grasshopper Warbler	Locustella naevia	Red List Bird of conservation concern, Notable Bird	Υ		
Grass Rivulet	Perizoma albulata albulata	Sussex Rare	Υ		
Grass Snake	Natrix natrix	W&C Act Schedule 5 Killing & injuring S.9(1) (part); sale S.9(5)a	Υ	Υ	
Grayling (butterfly)	Hipparchia semele	Red List GB post 2001 Vulnerable, Sussex Rare	Υ		
Great Crested Newt	Triturus cristatus	W&C Act Schedule 5 (full protection), Habitats Regs S.2	Υ	Y	
Green-brindled Chestnut (moth)	Allophyes oxyacanthae	For national research purposes only	Υ		
Grey Dagger (moth)	Acronicta psi	For national research purposes only	Υ		
Grey-headed Wagtail	Motacilla flava thunbergi	Red list Bird of conservation concern, Notable Bird	Υ		
Grey Partridge	Perdix perdix	Red list Bird of conservation concern, Notable Bird	Υ		
Grizzled Skipper	Pyrgus malvae	Red List GB post 2001 Vulnerable	Υ		
Harvest Mouse	Micromys minutus	Red List GB post 2001 Near Threatened	Υ		
Hawfinch	Coccothraustes coccothraustes	Red list Bird of conservation concern, Notable Bird	Υ		
Hazel Dormouse	Muscardinus avellanarius	Habs Regs Sch2, W&C Act Sch5 s9.4b/s9.4c /s9.5a; Red List GB post 2001 Vulnerable	Υ		Y
Hedgehog	Erinaceus europaeus	Red List GB post 2001 Vulnerable	Υ		
Hedge Rustic	Tholera cespitis	·	Υ		
Hen Harrier	Circus cyaneus	W&C Act Schedule 1; Red list Bird of conservation concern, Notable Bird	Υ		
Herring Gull	Larus argentatus argentatus	Red list Bird of conservation concern, Notable Bird	Υ		Υ
Hornet Robberfly	Asilus crabroniformis	Notable, Sussex Rare	Υ		Υ
House Sparrow	Passer domesticus	Red list Bird of conservation concern; Notable Bird	Υ		
Juniper	Juniperus communis	Red List Endangered post 2001 Near Threatened, Sussex Rare	Υ		
Knot Grass (moth)	Acronicta rumicis	For national research purposes only	Υ		
Lackey	Malacosoma neustria		Υ		
Lapwing	Vanellus vanellus	Red list Bird of conservation concern; Notable Bird	Υ		
Large Wainscot	Rhizedra lutosa		Υ		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Latticed Heath	Chiasmia clathrata		Υ		
Lesser Redpoll	Acanthis cabaret	Red list Bird of conservation concern, Notable Bird	Υ		
Lesser Spotted Woodpecker	Dryobates minor	Red list Bird of conservation concern, Notable Bird	Υ		
Linnet	Carduelis cannabina	Red list Bird of conservation concern, Notable Bird	Υ		
Long-finned Pilot	Globicephala melas	Red List Global post2001 Data Deficient:			
Whale		Habs Regs Sch2, W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/s9.4b/s9.4c/s9.5a;	Υ		
Mackerel	Scomber scombrus		Υ		
Marsh Tit	Poecile palustris	Red list Bird of conservation concern, Notable Bird	Υ		
Marsh Warbler	Acrocephalus palustris	W&C Act Schedule 1; Red List Bird of conservation concern, Notable Bird	Υ		
Minor Shoulder-knot	Brachylomia viminalis	For national research purposes only	Υ		
Moss Carder-bee	Bombus muscorum		Υ		
Mouse Moth	Amphipyra tragopoginis	For national research purposes only	Υ		
Mottled Rustic	Caradrina morpheus	For national research purposes only	Υ		
Mullein Wave	Scopula marginepunctata	For national research purposes only	Υ		
Musk Orchid	Herminium monorchis	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Endangered, Nationally Scarce, Sussex Rare	Υ		
Narrow-leaved Helleborine	Cephalanthera longifolia	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Endangered, Nationally Scarce, Sussex Rare	Υ		
Nightjar	Caprimulgus europaeus	Amber list Bird of conservation concern, Notable Bird	Υ		
Oak Hook-tip	Watsonalla binaria	For national research purposes only	Υ		
Oblique Carpet	Orthonama vittata	Sussex Rare	Υ		
Pennyroyal	Mentha pulegium	W&C Act Schedule 8; Red List GB post 2001 Endangered, Red List ENG post 2001 Critically Endangered, Nationally Scarce, Sussex Rare	Υ		
Phantom Hoverfly	Doros profuges		Υ		
Pheasant's-eye	Adonis annua	Red List GB post 2001 Endangered, Red List England post 2001 Endangered, Nationally Scarce, Sussex Rare			Y (Arable Plants)

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Plaice	Pleuronectes platessa	Brighton Marina Outer Harbour	Υ		
Pretty Chalk Carpet	Melanthia procellata	For national research purposes only	Υ		
Prickly Salt-wort	Salsola kali subsp. kali	Red List GB post 2001 Vulnerable, Sussex Rare	Υ		
Powdered Quaker	Orthosia gracilis	For national research purposes only	Υ		
Red Hemp-nettle	Galeopsis angustifolia	Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Nationally Scarce, Sussex Rare			
Red-shanked Carder- bee	Bombus ruderarius		Υ		
Red Star-thistle	Centaurea calcitrapa	Red List GB post 2001 Endangered, Red List ENG post 2001 Endangered, Nat Rare, Sussex Rare	Υ		Υ
Rest Harrow (moth)	Aplasta ononaria	Red List GB Pre94 Rare, Sussex Rare	Υ		
Ring Ouzel	Turdus torquatus	Red list Bird of conservation concern	Υ		
Rock-Rose	Helianthemum oelandicum subsp. levigatum	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare	Y		
Roseate Tern	Sterna dougallii	Amber list Bird of conservation concern, Notable Bird	Υ		
Rosy Minor	Litoligia literosa	For national research purposes only	Υ		
Rosy Rustic	Hydraecia micacea	For national research purposes only	Υ		
Rugged Oil-beetle	Meloe rugosus	Nationally Scarce	Υ		
Rustic (moth)	Hoplodrina blanda	For national research purposes only	Y		
Sallow (moth)	Cirrhia icteritia	For national research purposes only	Υ		
Scaup	Aythya marila	Red list Bird of conservation concern	Υ		

English name	sh name Latin name Legal / policy protection		NERC Section41	Sussex BAP	Brighton & Hove BAP
Sea Barley	Hordeum marinum Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Scarce, Sussex Rare		Y		
September Thorn	Ennomos erosaria	For national research purposes only	Υ		
Shaded Broad-bar	Scotopteryx chenopodiata	For national research purposes only	Υ		
Shepherd's Needle	Scandix pecten-veneris	Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Endangered, Sussex Rare	Y		Y (Arable Plants)
Short-snouted Seahorse	Hippocampus hippocampus	W&C Act S9, CITES, Red List Global post 2001 Data Deficient. Feature of Conservation Importance for which Beachy Head Marine Conservation Zone is designated.	Υ		Y
Shoulder-striped Wainscot	Leucania comma	For national research purposes only	Υ		
Skylark	Alauda arvensis	Red list Bird of conservation concern, Notable Bird	Υ	Y	
Slender Bedstraw	Galium pumilum	Red List GB post 2001 Data Deficient, Red List GB post 2001 Endangered, Nationally Rare,	Υ		
Slow Worm	Anguis fragilis	W&C Act Schedule 5 Killing & injuring S.9(1) (part); sale S.9(5)	Υ	Y	
Small Blue	Cupido minimus	W&C Act Sch 5 sale S 9 (5)a; List GB post 2001 Near Threatened	Υ		
Small Emerald	Hemistola chrysoprasaria	For national research purposes only	Υ		
Small Heath	Coenonympha pamphilus	Red List GB post 2001 Near Threatened	Υ		
Small Phoenix	Ecliptopera silaceata	For national research purposes only	Υ		
Small Square-spot	Diarsia rubi	For national research purposes only	Υ		
Song Thrush	Turdus philomelos	Red list Bird of conservation concern, Notable Bird	Υ	Y	
Spinach (moth)	Eulithis mellinata	For national research purposes only	Υ		
Sprawler (moth)	Asteroscopus sphinx	For national research purposes only	Υ		
Spreading Hedge- parsley	Torilis arvensis	Red List ENG post 2001 Endangered, Nationally Scarce, Sussex Rare	Υ		Y (Arable Plants)
Spotted Flycatcher	Muscicapa striata	Red list Bird of conservation concern, Notable Bird	Υ		
Stag Beetle	Lucanus cervus	W&C Act Sch 5 sale s9 (5)a; Nationally Scarce, Notable B,	Υ	Υ	

Sterile Beardless -moss Weissia sterilis Stone Curlew Burhinus oedicnemus Amber list Bird of conservation concern, Notable Bird Y Straw Belle (moth) Aspitates gilvaria gilvaria Sussex Rare Ribustodelphax imitans Red List GB pre94 Insufficient data, Sussex Rare Planthopper Rhorow-wax Bupleurum rotundifolium Red List GB post 2001 Critically Endangered, Red List ENG Popost 2001 Critically Endangered, Red List ENG Rare Rocade moth Calophasia lunula Red List GB post 2001 Critically Endangered, Red List ENG Rare Rare Rocade moth Calophasia lunula Red List GB post 2001 Vulicarable, Red List ENG Rare Red List GB post 2001 Vulicarable, Red List ENG Post Sedge Carex vulpina Red List GB post 2001 Vulicarable, Red List ENG post 2001 Vulnerable, Nationally Rare, Sussex Rare Rocade List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare, Sussex Rare Rocade List GB post 2001 Vulnerable, Nationally Rare, Sussex Rare Rocade List GB post 2001 Vulnerable, Nationally Rare, Sussex Rare Rocade List GB post 2001 Vulnerable, Nationally Rare, Sussex Rare Rocade List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus Wac Act Sch5 s9.1/59.1 kill/s9.1 take/s9.4a/ S9.4b/59.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare Wart-biter Spilosoma lubricipedo For national research purposes only White Firnine Spilosoma lubricipedo For national research purposes only White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable Red List GB post 2001 Vulnera	English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Sterile Beardless -moss Weissia sterilis Stone Curlew Burhinus oedicnemus Amber list Bird of conservation concern, Notable Bird Y Straw Belle (moth) Aspitates gilvaria gilvaria Sussex Rare Ribiautodelphax imitans Red List GB Pre94 Insufficient data, Sussex Rare Y Planthopper Ribiautodelphax imitans Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Nationally Rare, Sussex Y Rare Toadfilax Brocade moth Calophasia lunula Tree Pipit Anthus trivialis Red list Bird of conservation concern, Notable Bird Y Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare, Sussex Rare Vivite Linaria flavirostris Red list Bird of conservation concern Y Turtle Dove Streptopelia turtur Red list Bird of conservation concern Y Wall (butterfly) Lasionmata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White Frinne Spilosoma lubricipeda For national research purposes only Y White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Wulnerable Satyrium w-album WcA Sch 5 sale s9 (S(a); Red List GB post 2001 For additional Limenities Capture WcA Sch 5 sale s9 (S(a); Red List GB post 2001 For national Red List GB post 2001 For national Read List GB post			Sussex Rare			
Straw Belle (moth) Aspitates gilvaria gilvaria Sussex Rare Flanthopper Thorow-wax Bupleurum rotundifolium Free Pipit Tree Pipit Anthus trivialis Aree Guist Bird of conservation concern, Notable Bird Arree Pipit Anthus trivialis Arree Pipit Anthus trivialis Aree Guist Bird of conservation concern, Notable Bird Arree Pipit Arthus trivialis Aree Guist Bird of conservation concern, Notable Bird Arree Pipit Arthus trivialis Aree Guist Bird of conservation concern, Notable Bird Arree Pipit Arthus trivialis Aree Garex vulpina Red List Bird of conservation concern, Notable Bird Arthus trivialis Aree Garex vulpina Red List Bird of conservation concern, Notable Bird Arthus trivialis Aree Garex vulpina Red List Bird of conservation concern, Notable Bird Arthus trivialis Aree Garex vulpina Red List Garex Conservation concern, Notable Bird Aree Fox-sedge Area vulpina Red List Garex Conservation concern Area Linaria flavirostris Red list Bird of conservation concern Area Linaria flavirostris Red list Bird of conservation concern Area List Garex Vulpina Area Linaria flavirostris Red List Garex Vulpina Red List Garex Vulpina Area List Garex Vulpina Red List Garex Vulpina Area Sussex Rare Wall (butterfly) Lasiommata megera Red List Garex Sos 1,59 1,59 1 kill/s9 1 take/s9.4a/ S9.4b/s9.4c/Sale s9.5a; Red List Garey Dost 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limentits camilla Red List Garex Sussex Rare White Admiral Limentits camilla Red List Garex Vulpina Red List ENG post 2001 Vulnerable Vulnerable Red List Garex Vulpina Red List Garex Vulpina Red List Garex Vulpina Red List ENG post 2001 Vulnerable Red List Garex Vulpina Red List Garex Vulpina Red List Garex Vulpina Red List ENG post 2001 Vulnerable Red List Garex Vulpina Red List Gare	Starling	Sturnus vulgaris	Red list Bird of conservation concern, Notable Bird	Υ	Y	Υ
Straw Belle (moth) Aspitates gilvaria gilvaria Sussex Rare Tall Fescue Ribautodelphax imitans Planthopper Thorow-wax Bupleurum rotundifolium Red List GB post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Nationally Rare, Sussex Rare Toadflax Brocade moth Calophasia lunula Tree Pipit Anthus trivialis Red list Bird of conservation concern, Notable Bird Y Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Turtle Dove Streptopelia turtur Red list Bird of conservation concern, Notable Bird Y Wall (butterfly) Lasiammata megera Red List GB post 2001 Near Threatned Y Wart-biter Decticus verrucivorus W&C Act Sch5 sp.1/s9.1 kill/s9.1 take/s9.4a/ sp.4/s9.4e/Sale s9.5a; Red List GB post 2001 Vulnerable, Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White Fornted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 For national Presearch purposes only White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak	Sterile Beardless -moss	Weissia sterilis	Sussex Rare	Υ		
Tall Fescue Planthopper Ribautodelphax imitans Palnthopper Thorow-wax Bupleurum rotundifolium Red List GB post 2001 Critically Endangered, Red List ENG post 2001 V P Passer montanus Red List GB post 2001 Critically Endangered, Red List ENG post 2001 P P P P P P P P P P P P P P P P P P	Stone Curlew	Burhinus oedicnemus	Amber list Bird of conservation concern, Notable Bird	Υ		
Planthopper Thorow-wax Bupleurum rotundifolium post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Red List ENG post 2001 Critically Endangered, Nationally Rare, Sussex Rare Toadflax Brocade moth Calophasia lunula Tore Pipit Anthus trivialis Red list Bird of conservation concern, Notable Bird Y Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Twite Linaria flavirostris Red list Bird of conservation concern Turtle Dove Streptopelia turtur Red list Bird of conservation concern Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White-Fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 WCA Sch 5 sale s9 (5(a); Red List GB post 2001 WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak	Straw Belle (moth)	Aspitates gilvaria gilvaria	Sussex Rare	Υ		
post 2001 Critically Endangered, Nationally Rare, Sussex Rare Toadflax Brocade moth Calophasia lunula Tree Pipit Anthus trivialis Red list Bird of conservation concern, Notable Bird Y Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable Rare, Sussex Rare Twite Linaria flavirostris Red list Bird of conservation concern Y Turtle Dove Streptopelia turtur Red list Bird of conservation concern Y Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch 5 s9. 1/59.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5s; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak	Tall Fescue Planthopper	Ribautodelphax imitans	Red List GB Pre94 Insufficient data, Sussex Rare	Υ		
Tree Pipit Anthus trivialis Red list Bird of conservation concern, Notable Bird Y Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Twite Linaria flavirostris Red list Bird of conservation concern Y Twite Dove Streptopelia turtur Red list Bird of conservation concern Y Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-fronted Goose Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001	Thorow-wax	Bupleurum rotundifolium	post 2001 Critically Endangered, Nationally Rare, Sussex	Υ		
Tree Sparrow Passer montanus Red list Bird of conservation concern, Notable Bird Y True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare, Sussex Rare Twite Linaria flavirostris Red list Bird of conservation concern Turtle Dove Streptopelia turtur Red list Bird of conservation concern, Notable Bird Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB pos t2001 Vulnerable White-fronted Goose Anser albifrons Red List Bird of conservation concern, White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Red List GB post 2001 Y Y Y Y Y Y Y Y Y Y Y Y Y	Toadflax Brocade moth	Calophasia lunula		Υ		
True Fox-sedge Carex vulpina Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare, Sussex Rare Twite Linaria flavirostris Red list Bird of conservation concern Y Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Y Vulnerable White-lettered Hairstreak WCA Sch 5 sale s9 (5(a); Red List GB post 2001 For national research purposes 2001 Y Y Y Y Y Y Y Y Y Y Y Y Y	Tree Pipit	Anthus trivialis	Red list Bird of conservation concern, Notable Bird	Υ		
Vulnerable, Nationally Rare, Sussex Rare Twite Linaria flavirostris Red list Bird of conservation concern Turtle Dove Streptopelia turtur Red list Bird of conservation concern, Notable Bird Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB pos t2001 Vulnerable Y White Ermine Spilosoma lubricipeda For national research purposes only Y White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Facility Rare, Sussex Rare Y Y Y Y Y Y Y Y	Tree Sparrow	Passer montanus	Red list Bird of conservation concern, Notable Bird	Υ		
Turtle Dove Streptopelia turtur Red list Bird of conservation concern, Notable Bird Y Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Y Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White Ermine Spilosoma lubricipeda For national research purposes only Y White-fronted Goose Anser albifrons Red List GB post 2001 Vulnerable, Red List ENG post 2001 White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Y Y	True Fox-sedge	Carex vulpina	· · · · · · · · · · · · · · · · · · ·	Υ		
Wall (butterfly) Lasiommata megera Red List GB post 2001 Near Threatened Wac Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White Ermine Spilosoma lubricipeda For national research purposes only White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Y Vulnerable White-lettered Hairstreak Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Endangered	Twite	Linaria flavirostris	Red list Bird of conservation concern	Υ		
Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB pos t2001 Vulnerable White Ermine Spilosoma lubricipeda For national research purposes only White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Y Vulnerable WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Y Y Y	Turtle Dove	Streptopelia turtur	Red list Bird of conservation concern, Notable Bird	Υ		
Wart-biter Decticus verrucivorus W&C Act Sch5 s9.1/s9.1 kill/s9.1 take/s9.4a/ s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered, Nationally Rare, Sussex Rare White Admiral Limenitis camilla Red List GB post 2001 Vulnerable Y White Ermine Spilosoma lubricipeda For national research purposes only White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Y White-lettered WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Y Y Y	Wall (butterfly)	Lasiommata megera	Red List GB post 2001 Near Threatened	Υ		
White Ermine Spilosoma lubricipeda For national research purposes only White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Yulnerable White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Endangered	Wart-biter		s9.4b/s9.4c/Sale s9.5a; Red List GB post 2001 Endangered,	Υ		
White-fronted Goose Anser albifrons Red List Bird of conservation concern, White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Y White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Provided Findangered White-fronted Goose Anser albifrons Red List Bird of conservation concern, Y Y Y Y Y Y Y Y Y Y Y Y Y	White Admiral	Limenitis camilla	Red List GB pos t2001 Vulnerable	Υ		
White Helleborine Cephalanthera damasonium Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Endangered	White Ermine	Spilosoma lubricipeda	For national research purposes only	Υ		
Vulnerable White-lettered Satyrium w-album WCA Sch 5 sale s9 (5(a); Red List GB post 2001 Hairstreak Endangered	White-fronted Goose	Anser albifrons	Red List Bird of conservation concern,	Υ		
Hairstreak Endangered	White Helleborine	Cephalanthera damasoniui		·		Y
Whiting Merlangius merlangus Red List Global post2001 Data Deficient γ	White-lettered Hairstreak	Satyrium w-album	` ` ' ''	Y		Y
	Whiting	Merlangius merlangus	Red List Global post2001 Data Deficient	Y		

English name	Latin name	Legal / policy protection	NERC Section41	Sussex BAP	Brighton & Hove BAP
Willow Tit	Poecile montanus	Red list Bird of conservation concern, Notable Bird	Υ		
Wood Calamint	Clinopodium menthifolium	Red List GB post 2001 Vulnerable, Red List ENG post 2001 Vulnerable, Nationally Rare	Υ		
Woodlark	Lullula arborea	Notable Bird	Υ		
Wood Warbler	Phylloscopus sibilatrix	Red list Bird of conservation concern, Notable Bird	Υ		
Yellowhammer	Emberiza citrinella	Red list Bird of conservation concern, Notable Bird	Υ	?	
Yellow Wagtail	Motacilla flava	Red list Bird of conservation concern, Notable Bird	Υ		

Table 3.2 Additional locally important species requiring conservation action not listed as Priority species

English name	Latin name	Legal / policy protection	Sussex BAP	Brighton & Hove
				BAP
A bee	Halictus eurygnathus	RDB1		Υ
A leafhopper	Ulopa trivia	Nationally Notable b		Υ
A lichen	Physcia clementei	Locally Notable; Nationally Scarce		Υ
Badger	Meles meles	Protection of Badgers Act 1992		Υ
Barn Owl	Tyto alba	W&C Act Schedule 1	Υ	Υ
Black Redstart	Phoenicurus ochruros	W&C Act Schedule 1		Υ
Broadleaved Spurge	Euphorbia platyphyllos			Y (Arable Plants)
Common Frog	Rana temporaria	W&C Act Schedule 5 sale S.9(5)a		Υ
Corn Gromwell	Lithospermum arvense			Y (Arable Plants)
Corn Parsley	Petroselinum segetum			Y (Arable Plants)
Dense-flowered Fumitory	Fumaria densiflora			Y (Arable Plants)
Early Spider Orchid	Ophrys sphegodes	W&C Act Schedule 8		Υ
English Elm	Ulmus procera	Brighton holds the National Collection of Elms		Υ
Fine-leaved Fumitory	Fumaria parviflora			Y (Arable Plants)
Firecrest	Regulus ignicapillus	W&C Act Schedule 1		Υ
Frosted Arache	Atriplex laciniata	Locally Notable		Υ
Glow Worm	Lampyris noctiluca	Locally Notable	Υ	Υ
Hoary Stock	Matthiola incana	IUCN Pre 1994 Rare. Locally Notable Nationally Scarce		Υ
House Martin	Delichon urbica	Red list Bird of conservation concern, Notable Bird, Locally Notable	Υ	
Light Feathered Rustic	Agrotis cinerea	Locally Notable		Υ
Meadow Clary	Salvia pratensis	W&C Act Schedule 8 Amber List plant – Vulnerable and Near Threatened		Υ
Narrow-fruited Cornsalad	Valerianella dentata			Y (Arable Plants)
Nottingham Catchfly	Silene nutans			Y (Arable Plants)
Palmate Newt	Lissotriton helveticus	W&C Act Schedule 5 sale S.9(5)a		Υ
Peregrine	Falco peregrinus	W&C Act Schedule 1		Υ
Prickly Poppy	Papaver argemone			Y (Arable Plants)
Rough Poppy	Papaver hybridum			Y (Arable Plants)
Sea Bindweed	Calystegia soldanella	Locally Notable		Υ
Sea Heath	Frankenia laevis	Nationally Scarce		Υ
Sea Knotgrass	Polygonum maritimum	W&C Act Schedule 8		Υ

English name	Latin name	Legal / policy protection	Sussex BAP	Brighton & Hove
				BAP
Sea Rocket	Cakile maritima	Locally Notable		Υ
Smooth Newt	Lissotriton vulgaris	W&C Act Schedule 5 sale S.9(5)a		Υ
Swift	Apus apus	Red list Bird of conservation concern, Notable Bird, Locally Notable	Υ	Υ
Swallow	Hirundo rustica	Locally Notable	Υ	Υ
Toadflax Brocade moth	Calophasia lunula	Locally Notable		
Venus's Looking Glass	Legousia hybrida			Y (Arable Plants)
Weasel's Snout	Misopates orontium			Y (Arable Plants)
Wild birds (most species)	-	W&C Act		Υ

Table 3.3 Priority habitats present in Brighton and Hove

Feature habitat	Legal / policy protection	NERC Section 41*	RegionalBAP+	Sussex BAP	Brighton & Hove BAP
Arable field margins (incorporated in Farmland in Brighton & Hove BAP)		Y	Y	Y	Y
Coastal vegetated shingle		Y	Y	Y	Υ
Fragile Sponge and Anthozoan Communities on Subtidal Rocky habitats	Included in MCZ	Y			Y
Hedgerows		Y		Υ	Y
Intertidal Chalk	Included in MCZ	Y			Y
Intertidal Underboulder Communities	Included in MCZ	Y			Y
Lowland calcareous (chalk) grassland Land (incorporating chalk scrub and wax caps colonies in Brighton & Hove BAP)		Y	Y	Y	Y
Lowland mixed broadleaved woodland		Y	Y	Υ	Y
Lowland Wood-Pasture and Parkland		Y	Y	Υ	Υ
Maritime cliff and slopes		Y	Y	Υ	Υ
Open Mosaic Habitats on Previously Developed Land (incorporating Urban Commons in Brighton & Hove BAP)		Y			Y
Ponds		Y	Y		Υ
Sheltered Muddy Gravels – subtidal sediments	Included in MCZ	Y			Υ
Subtidal Chalk	Included in MCZ	Y			Υ
Subtidal sands and gravels	Included in MCZ	Y			Υ
Traditional orchards		Y		Υ	Υ

Table 3.4 Additional habitats & features which are locally important not listed as Priority habitats

Feature habitat	Legal / policy protection	Regional BAP ⁺	Sussex BAP	Brighton & Hove BAP
Arable land			Υ	Υ
Ancient woodland and 'veteran' trees	NPPF irreplaceable			Y
Mosaic habitats				Υ
Road verges			Υ	Υ
School grounds				Υ
Scrub communities				Υ
Standing fresh water (including ponds of all types)		Υ		Υ
The Downs			Υ	Υ
Urban areas				Υ

⁺At the time of writing the South East Regional BAP contains targets for habitats only.

ANNEX 4: Protected species and ecological survey seasons

This provides a rough guide to the seasonality of ecological survey to illustrate the potential impact on the submission of information in support of a planning application. A suitably qualified ecologist should always be consulted to provide site specific advice on appropriate methodologies and timing, which may depend on weather conditions.

	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec
Preliminary Ecological Appraisals				Surveys are possible year round								
Botanical Surveys						As	appropriate communi					
Breeding Birds				Six surv	vey visits acr	oss the s	eason					
Wintering Birds		t least onthly									At least	t monthly
Badgers				S	Surveys for e	evidence	can be under	taken year ro	ound			
		Bait	marking and	l sett surveys	Breed	ding seas	on, limited su	rveying	Bait m	arking and sett s	urveys	
								Licensable	season for	disturbance		
Bats				ı	Potential Ro	ost Asses	sment Surve	ys are possib	le year rou	nd		
				Possible depending on temperature	Emergence and Activity Surveys on							
Hazel Dormice				Nest tube surv	vey with mo	nthly che	cks througho	ut season, to	achieve m	inimum level of		
Reptiles				Weather cond	litions are in	nportant						
Water Voles					Habita	t assessm	ent possible	year round				
				Two surveys required: the first Apr to end Jun, the second Jul to Sep to identify breeding territories and latrines								
Great Crested Newts				Habitat assessment possible year round								
				4 x Aquatic su 2 surveys mid- eDNA survey s end Jun	-Apr- mid M	ay);						

Key

Optimal	
Sub-optimal	
Not recommended	

Points to note regarding surveys are as follows:

- It is important that surveys for protected (and Priority) species are carried out at an appropriate time of year, as indicated by published guidance and/or nationally recognised survey guidelines/methods where available to ensure the greatest chance of detecting protected (and priority) species if present. At other times of year, it can be very difficult to detect protected (and priority) species as their levels of activity decrease as temperatures decline and the weather worsens, they take refuge in areas that are difficult to access, and bad weather destroys evidence of their presence. Therefore, surveys undertaken at an inappropriate time of year will not provide a true reflection of the likely impacts of a proposed development on protected (and priority) species.
- For certain species and habitats, surveys can be carried out at any time of year, but for other species, particular times of year are required to give the most reliable results, as indicated above.
- Surveys conducted outside of optimal times will be unreliable. As a consequence, there may be insufficient information for determination of an application. For certain species (e.g. Great Crested Newt) surveys over the winter period are unlikely to yield any useful information. Similarly, negative results gained outside the optimal period should not be interpreted as absence of a species and further survey work maybe required during the optimal survey season. This is especially important where existing surveys and records show the species has been found previously on site or in the surrounding area.
- Species surveys are also very weather dependent, so it may be necessary to delay a survey or to carry out more than one survey if the weather is not suitable, e.g. bat surveys carried out in wet or cold weather may not yield accurate results.
- Absence of evidence of a species does not necessarily mean that the species is not there, nor that its habitat is not protected (e.g. a bat roost is protected whether any bats are present or not).
- Sussex Biodiversity Record Centre can provide existing information and records (www.sussexbrc.org.uk)

ANNEX 5: Biodiversity Checklist

The Biodiversity Checklist is designed to identify developments which may have an impact on biodiversity, particularly whether protected, Priority or notable species may be affected by proposals. Protected and Priority species are a material consideration in the planning process, and if there is a likelihood that a development will impact them, further information must be submitted in support of a planning application. Applicants or their agents should use the Biodiversity Checklist to carry out a 'first impressions' check of their application site (stage A1). This should be carried out while on site and does not require ecological expertise.

The Checklist is **not required** for the following types of planning applications - advertisement applications, air conditioning units, changes of use, conversion to flats (if not affecting the roof), crossovers (where no hard standing needs to be created), extract ducting, fences, removal of fire escapes, roller blinds/shutters, satellite dishes, shop fronts, walls and gates, windows and doors.

All other types of development proposal must include a completed biodiversity checklist for the application to be validated. This includes householder applications where the development requires a planning application (not permitted development); listed building consents where the roof will be affected including roof lights, solar panels or floodlighting of churches or trees will be affected; full planning applications including single/two storey extensions and residential/commercial new build; and outline planning applications.

Failure to complete the Biodiversity Checklist accurately may result in your application not being validated and may cause delay to the determination process.

There are two different Biodiversity Checklists: one for householder applications and one for all other types of planning applications.

The Householder Biodiversity Checklist includes questions to help determine whether Protected or Priority species may be affected and whether or not further information will be required. If 'the answer is 'yes' to any of the questions listed, the planning application must include an ecological report confirming impacts and providing appropriate mitigation to allow the council to fulfil our duties for the conservation and enhancement of biodiversity.

The Checklist for other types of planning application includes indicative thresholds and criteria which will trigger the consideration of Protected and Priority species, based on the likelihood of these being present and affected by development. It should be used by applicants to identify which ecological surveys are likely to be necessary for an individual development given its condition and location. If the checklist indicates that species may be present and affected, a suitably qualified ecologist should ensure any necessary ecological surveys are undertaken in the appropriate season. Where a suitably qualified ecologist considers that surveys are necessary, these will need to be carried out to and submitted alongside the planning application in order for it to be validated.

Householder Applications Biodiversity Checklist

Question	Features	Response
1) Do proposals involve the demolition or		Yes / No
removal of a building and/or impacts to a		
roof of a building?		
2) Do the proposals involve modification,	Loft void(s)	Yes / No
conversion of a building with the	Lined roof tiles/slates	Yes / No
following features:	Lined flat roof	Yes / No
This indicates the libeliheed of hote	Hanging tiles or cladding	Yes / No
(This indicates the likelihood of bats	Soffits/fascias	Yes / No
(European protected species) being present and affected by the development & may trigger the need for survey &	Agricultural buildings (e.g. farmhouses, barns and outbuildings) of traditional brick or stone construction and/or with exposed wooden beams	Yes / No
assessment to support an application)	Buildings with weather boarding and/or hanging tiles that are within 200m of woodland, designated nature sites, and/or water	Yes / No
	Pre-1960 detached buildings and structures within 200m of woodland designated nature sites and/or water	Yes / No
	Pre-1914 buildings within 400m of woodland designated nature sites and/or water	Yes / No
	Pre-1914 buildings with gable ends or slate roofs (regardless of location)	Yes / No
	Located within, or immediately adjacent to woodland, designated nature sites and/or immediately	Yes / No
	adjacent to water	
	Dutch barns or livestock buildings with a single skin roof and board-and-gap and/or Yorkshire	Yes / No
	boarding	
	underground structures including, but not limited to, cellars, ice-houses, air raid shelters	Yes / No
Please provide photographs of all aspects and 2.	of the building in question (N, S, E and W) and close-ups of all of the above features you have identified	d for question 1
3) Do the proposals involve felling,	Woodland	Yes / No
removal or works to:	Native hedgerows and/or lines of trees	Yes / No
	Old and veteran trees	Yes / No
	Mature trees with holes, cracks, cavities, or that are covered with mature ivy (including dead trees)	Yes / No
4: Do the proposals involve the removal/modification of mature garden features?	Features including rough grassland; large mature compost heap; large mature log pile; large rockery; scrub; copse; allotment; orchard.	Yes / No

5: Do the proposals involve the	Yes / No
removal/modification of a (permanent or	
temporary) water body, such as pond?	
6: Does the site or part of it lie within a	Yes / No
<u>District Licensing Amber or Red Risk Zone</u>	
for Great Crested Newts?	
7: Are you aware of any protected or	Yes / No
Priority species present on or adjacent to	
your development site?	

If you have answered YES to, or ticked any part of, any of the above questions you are likely to need an ecological assessment, which should include a data search from the <u>Sussex Biodiversity Record Centre.</u> This should be addressed before you submit your planning application by seeking advice from a <u>professional and suitably</u> qualified ecologist.

Assessments should be proportionate to the size of the site and the nature of the proposals. If your ecologist considers the impacts on ecology are negligible, they should provide justification with clear photographs to explain why. This must include an explanation of how all potential impacts on biodiversity will be avoided and/or why protected and Priority species are not an issue on your site. If the ecological information received does not provide certainty of likely impacts, the application may be refused.

Full and Outline Applications Biodiversity Checklist

Proposals for Development That Will Trigger a Survey for the relevant Protected, Priority or Notable Species		Bats	Barn Owls	Breeding Birds	Gt. Crested Newts	Dormouse	Water vole	Badger	Reptiles	Amphibians	Schedule 8 Plants & Fungi	Stag Beetle	Aculeate hymenoptera	Other Priority Species	Notable species of local concern (e.g. swifts)	Response (please tick)
Proposed development which includes the	All agricultural buildings (e.g. farmhouses and barns) particularly of traditional brick or stone construction and/or with exposed wooden beams	Υ	Υ	Υ											Υ	
modification, conversion, demolition or	All buildings with weather boarding and/or hanging tiles that are within 200m of woodland and/or water	Υ														
removal of buildings and	Pre-1960 detached buildings and structures within 200m of woodland and/or water;	Υ														
structures (especially roof	Pre-1914 buildings within 400m of woodland and/or water;	Υ														
voids) involving the following:	Pre-1914 buildings with gable ends, peg tile or slate roofs, regardless of location;	Υ														
	All tunnels, mines, kilns, ice-houses, adits, military fortifications, air raid shelters, cellars and similar underground ducts and structures;	Υ														
All bridge structures (especially over water and wet ground).		Υ					Υ									
Proposals involving lighting of churches and listed buildings or flood lighting of green space within 50m of woodland, water, field hedgerows or lines of trees with obvious connectivity to woodland or water.		Υ	Υ	Υ		Υ										
-	woodland, or field hedgerows and/or lines of trees with y to woodland or water bodies.	Υ		Υ		Υ		Υ			Υ	Υ				
Proposals within 20	Om of a designated site for nature conservation	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	

Proposals for Development That Will Trigger a Survey for the relevant Protected, Priority or Notable Species		Bats	Barn Owls	Breeding Birds	Gt. Crested Newts	Dormouse	Water vole	Badger	Reptiles	Amphibians	Schedule 8 Plants & Fungi	Stag Beetle	Aculeate hymenoptera	Other Priority Species	Notable species of local concern (e.g. swifts)	Response (please tick)
Proposed tree	old and Veteran trees that are older than 100 years;	Υ	Υ	Υ								Υ				
work (felling or	trees with obvious holes, cracks or cavities;	Υ	Υ	Υ												
lopping) and/or development affecting:	trees with a diameter greater than 1m at chest height;	Υ	Υ	Υ												
Proposals affecting	g natural cliff faces, crevices or caves.	Υ		Υ	Υ				Υ				Υ			
Major proposals w of pond.	ithin 500m of a pond or Minor proposals within 100-250m				Υ		Υ			Υ						
· ·	g or within 200m of a river, stream, lake, or other aquatic edbed, grazing marsh and fen.	Υ		Υ			Υ		Υ	Υ	Υ					
Proposals affecting brownfield sites, allotments and railway land which involve a change to derelict areas with exposed soil, brambles, piles of rubble etc of more than 100m ² .				Υ	Υ			Υ	Υ	Υ		Υ				
Loss or modification of grassland grazed by horses, cattle or sheep, or more than about 100m2											Υ		Υ	Υ		
Proposals for large wind turbines: see <u>Scottish Natural Heritage et al Bats and</u> <u>Onshore Wind Turbines: Survey, Assessment and Mitigation</u>		Υ		Υ												
	ment affecting any buildings, structures, feature or otected, notable or Priority species are known to be	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		

If you have answered YES to, or ticked any part of, any of the above questions you are likely to need an ecological assessment, which should include a data search from the <u>Sussex Biodiversity Record Centre</u>. This should be addressed before you submit your planning application by seeking advice from a <u>professional and suitably qualified ecologist</u>.

Exceptions for When a Full Species Survey and Assessment may not be Required

- a. Following consultation by the applicant at the pre-application stage, the Council's ecological adviser has stated in writing that no protected or Priority species surveys and assessments are required.
- b. If it is clear that no protected or Priority species are present, despite the guidance in the above table indicating that they are likely, the applicant should provide evidence with the planning application to demonstrate that such species are absent (e.g. this might be in the form of a brief report from a suitably qualified and experienced ecologist, or a relevant local nature conservation organisation).
- c. If it is clear that the development proposal will not affect any protected or Priority species present, then only limited information needs to be submitted. This information should, however, (i) demonstrate that there will be no significant impact on any protected or Priority species present (this includes protecting habitats not to be impacted by the development during construction and post construction phases), and (ii) include a statement acknowledging that the applicant is aware that it is a criminal offence to disturb or harm protected species should they subsequently be found or disturbed.

ANNEX 6: Biodiversity on Development sites: A hazard prevention checklist during construction and operation

This checklist aims to help implement the mitigation hierarchy: avoid impacts and embed mitigation during construction as well as inform the design and location of compensation post construction.

Hazard	Considerations
Construction Phase	
Ancillary structures such as paths and other hardsurfaces	These are often excluded from planning application drawings, but their construction and location can damage biodiversity features. Ensure their design, location and construction method take account of biodiversity features e.g. permeable paving systems which can integrate vegetation.
Assembly areas for components of construction.	Plan locations in advance and site well away from sensitive areas. Include in Ecology report site plan.
Demolition operations.	Falling rubble and storage areas for demolished structures can cause unnecessary damage if not properly planned for.
Fires	Plan locations in advance and site well away from sensitive areas. Include in the ecological report site plan.
Interruptions to established management regimes	It is important to maintain established habitat management regimes throughout the construction process. In some cases, it may be necessary to modify these to help buffer biodiversity features from construction impacts. Seek ecological advice.
Introduction of imported soils	Often landscaping schemes involve the importation of topsoil which is inappropriate to the locality or the nature conservation feature. In general, nutrient-rich topsoil should be avoided in habitat management and creation schemes. Introduction of topsoil can also promote the spread of invasive plant species.
Lighting	Lighting/floodlighting can interfere with animal behavior patterns. All lighting schemes should be designed to minimise light pollution effects and maintain dark unlit features on and off-site including on surrounding natural features such as trees and greenspaces.
Provision of services and utilities (e.g. undergroundpower lines, water supply and drainage / gully pots	These are often excluded from planning application drawings, but their construction and location can damage biodiversity features including trapping and killing animals such as toads and amphibians in gully pots. Ensure their location is included in the Ecology report and their design and effects fully considered.
Removal of site offices/compounds and final site clearaway after construction	Due care is needed, for example to ensure protective fencing is maintained in good condition until all danger of damage to biodiversity features by construction-related activity is passed.
Storage areas for construction and landscaping materials	Ensure such storage areas are identified and considered in the ecological report
Structural works to existing buildings	Although the footprint of the development may be the same as existing, construction activity may affect nearby
including conversions.	biodiversity features. Such development may also affect species which use buildings, such as bats and nesting birds.
Temporary access routes for construction vehicles - both on and off site.	Plan locations in advance and site well away from sensitive areas. Include in ecological report site plan.

Temporary fencing	Protective fencing should be sturdy and form a sufficiently robust barrier to prevent accidental damage to nature
	conservation features. Chestnut pale or equivalent is the normal minimum requirement. Temporary fencing for
	construction purposes should avoid severing areas of habitat.
Temporary offices and compounds.	Plan locations in advance and site well away from sensitive areas. Include in Ecology report site plan.
Topsoil and sub-soil removal.	Consider locations for storage and include in Ecology report. Ensure topsoil removal does not promote the spread of
	invasivespecies to new locations.
Vegetation clearance.	Direct loss of habitat; timing of removal to minimise impact and meet legislative requirements (e.g. nesting birds); ensure
	controlled removal of undesirable species e.g. Japanese Knotweed)
Occupation/Operational phase	
Landscape management	Appropriate aftercare, such as watering, is crucial to the successful integration of nature conservation features into
	development. Specialistcontractors may be required at particularly sensitive locations. Chemical applications should be
	avoided.
Pets	Pets can have a severe predation and disturbance effect on reptiles, mammals and birds. Scheme design should aim
	to minimise this risk, for example by buffering habitat resources such a woodland from development, and in the location
	and types of nest boxes and bird feeders used.
Public access	Increased public access to urban nature conservation features should be encouraged but such access should be carefully
	considered in the design and management of schemes to ensure nature conservation benefits are sustained
Vandalism.	The design of nature conservation features within development should take account of potential vandalism issues
	andother anti-social behaviour.
Vehicle access around and on/off-site.	Plan locations for all roads and paths in advance and site well away from sensitive areas. Soil compaction issues. Ensure
	temporary access is Included in ecological report site plan.

ANNEX 7: Notes on habitat creation and enhancement

Table 7.1 General principles on habitat creation

The following general principles should be applied to development schemes involving habitat creation:

Timing	Design	Species		
Works	- C	•		
Works should be scheduled to	The design of nature conservationenhancements	Full details of all species to be planted sho		
minimise any risk of	should be integrated from the early planning stage	provided for all schemes. Generally, nativ		
disturbance to species and	of a scheme. The aim should be to maximise	species guaranteed	d to be of local provenance	
habitats and to maximise the	opportunities and minimise impacts.	must be used espe	cially in open countryside and	
successful establishment of			e sites. In the urban area, nor	
newfeatures.	Linear features	native species with	n confirmed nature	
	Avoid the fragmentation of linear nature	conservation bene	fits, e.g. pollen and nature	
Surveys	conservation features. These are often important for	rich, may also be a	ppropriate.	
Some species and habitats are	allowing movement from one area of habitatto			
only available for conservation	another.	Integration		
work at specific times of the		New nature conservation features should		
year. Such requirements should	Buffer Zones	integrate with and	complement habitats and	
be factored in duringthe	Buffer areas between new nature conservation	species already pre	esent in the vicinity. Ensure	
earliest planning stages of a	features and development may be needed to	that habitat creation	on proposals will not leadto	
scheme.	avoid damaging impacts.	damage to existing	biodiversity features.	
	Site Management		Aftercare	
	On-site personnel		Provision for management	
are adapted to nutrient-poor	All on-site personnel should be made aware of any nat	ure conservation	Developments involving ne	
ion schemes should avoid the	features affected and of the conservation measures re	quired. There	and existing nature	
Topsoil will encourage	should be an identified person responsible for oversee	ing ecological	conservation features mus	
of low conservation value.	works and their contact details should be made availab	ole to the	makeprovision for their on	
	Planning Officer. An ecological clerk of works and/or sp	pecialist	going management.	
	contractor may be required, particularly for complex o	r difficult habitat		
	Works Works should be scheduled to minimise any risk of disturbance to species and habitats and to maximise the successful establishment of newfeatures. Surveys Some species and habitats are only available for conservation work at specific times of the year. Such requirements should be factored in duringthe earliest planning stages of a scheme. are adapted to nutrient-poor ion schemes should avoid the Topsoil will encourage	Works Works should be scheduled to minimise any risk of disturbance to species and habitats and to maximise the successful establishment of newfeatures. Surveys Some species and habitats are only available for conservation work at specific times of the year. Such requirements should be factored in duringthe earliest planning stages of a scheme. Site Management On-site personnel All on-site personnel should be made aware of any nat features affected and of the conservation measures re should be made available for oversee works and their contact details should be made available for oversee works and their contact details should be made available for oversee works and of the conservation features and clerk of works and/or specific times of the year. Such requirements should be factored in duringthe earliest planning officer. An ecological clerk of works and/or specific times of the account of the conservation measures responsible for oversee works and/or specific times of the provided the features and development may be needed to avoid damaging impacts.	Works Works should be scheduled to minimise any risk of disturbance to species and habitats and to maximise the successful establishment of newfeatures. Surveys Some species and habitats are only available for conservation work at specific times of the year. Such requirements should be factored in duringthe earliest planning stages of a scheme. Site Management On-site personnel All on-site personnel should be made aware of any nature conservation features and identified person responsible for overseeing ecological	

Adequate fencing Sturdy fencing (rather than temporary,	Plant handling	
plastic fencing or tape) should be used to protect nature	All plants should be handled and planted in accordance with the relevant	
conservation features throughout theconstruction phase	clauses in 'Handling and Establishing Landscape Plants' Chemical	
including appropriate root protection areas and buffer	applications should be avoided.	
zones, and in some cases, subsequently. Details ofthe		
location, type and means of installation of such fencing		
should be provided on the plans as part of the submitted		
planning application.		

Table 7.2 Native plants of local provenance and other plants suitable for landscaping schemes in Brighton and Hove

The use of native species of local provenance should be used in all habitat creation schemes unless there is adequate justification provided and accepted as reasonable for using plants from other sources agreed with the Council's ecological adviser. Proposals using such species must demonstrate at least UK (and preferably local) seed / plant origins peat and chemical free as possible. Habitat creation schemes nearby designated nature sites, greenspaces, in open countryside, and the urban fringe must use such suitable and appropriate native species of wildlife value as a priority.

Table 7.2 is not intended to be entirely comprehensive.

Species	Latin name	Chalk grassland (c) woodland (w) hedge bank / woodland edge (h)	Spring Meadow	Summer Meadow
Agrimony	Agrimonia eupatoria	c,h	N	Υ
Black Medic	Medicago lupulina	С	N	Υ
Bladder Campion	Silene vulgaris	С	Υ	Y
English Bluebell	Hyacinthoides non-scripta	w,h	-	-
Bugle	Ajuga reptans	w	-	-
Burnet Saxifrage	Pimpinella saxifrage	С	N	Υ
Butcher's Broom	Ruscus aculeatus	wh		
Centaury	Centaurium erythraea	С	N	Υ

Species	Latin name	Chalk grassland (c) woodland (w) hedge bank / woodland edge (h)	Spring Meadow	Summer Meadow
Common Bird's-foot Trefoil	Lotus corniculatus	c,h	Υ	Y
Common Dog Violet	Viola riviniana	W	-	-
Common Knapweed	Centaurea nigra	С	N	Y
Common Milkwort	Polygala vulgaris	с	Υ	Y
Common Restharrow	Ononis repens	с	N	Y
Cowslip	Primula veris	с	Υ	N
Creeping thyme	Thymus drucei	с	N	Y
Crested dog's-tail	Cynosurus cristatus	с	Υ	Y
Cuckoo Pint	Arum maculatum	h,w	-	-
Devil's-bit Scabious	Succisa pratensis	с	N	Y
Dog Violet	Viola riviniana	c,h	Υ	N
Dog's Mercury	Mercurialis perennis	w,h	-	-
Dropwort	Filipendula vulgaris	с	N	Υ
False Brome	Brachypodium sylvaticum	h	-	-
Field Scabious	Knautia arvensis	с	N	Υ
Foxglove	Digitalis purpurea	h	-	-
Garlic Mustard	Allaria petiolate	h	-	-
Germander Speedwell	Veronica chamaedrys	h,c,g	Υ	N
Glaucous Sedge	Carex flacca	С	Υ	Y
Greater Knapweed	Centaurea scabiosa	С	N	Y
Greater Stitchwort	Stellaria holostea	h,c	Υ	N

Species	Latin name	Chalk grassland (c) woodland (w) hedge bank / woodland edge (h)	Spring Meadow	Summer Meadow
Harebell	Campanula rotunifolia	С	N	Y
Herb Bennet	Geum urbanum	w	-	-
Hoary Plantain	Plantago media	С	Y	Υ
Honeysuckle	Lonicera periclymenum	w,h	-	-
Horseshoe Vetch	Hippocrepis comosa	С	N	Υ
Kidney Vetch	Anthyllis vulneraria	С	Y	Υ
Lady's Bedstraw	Galium verum	С	N	Υ
Marjoram	Origanum vulgare	С	N	Υ
Meadow Buttercup	Ranunculus acris	С	Y	Υ
Mouse-ear Hawkweed	Pilosella officinarum	С	N	Υ
Nettle-leaved Bellflower	Campanula trachelium	w,h	-	-
Oxeye Daisy	Leucanthemum vulgare	c,h	Y	Υ
Perforate St John's wort	Hypericum perforatum	С	Y	Υ
Primrose	Primula vulgaris	w,h	-	-
Quaking Grass	Briza media	С	Y	Υ
Ramsons	Allium ursinum	w,h	-	-
Red Campion	Silene dioica	w,h	-	-
Red Fescue	Festuca rubra	С	Y	Υ
Rock Rose	Helianthemum nummularium	С	N	Υ
Salad Burnet	Sanguisorba minor	С	Y	Υ
Self-heal	Prunella vulgaris	c,h	Y	Υ

Species	Latin name	Chalk grassland (c) woodland (w) hedge bank / woodland edge (h)	Spring Meadow	Summer Meadow
Sheep's Fescue	Festuca ovina	С	Υ	Υ
Small Scabious	Scabiosa columbaria	С	N	Y
Stinking Hellebore	Helleborus foetidus	w	-	-
Stinking Iris	lris foetidissima	w	-	-
Sweet Violet	Viola odorata	w,h	-	-
Tufted Vetch	Vicia cracca	w	-	-
Vipers Bugloss	Echium vulgare	С	N	Y
White Campion	Silene alba	С	Υ	Υ
Wild Basil	Clinopodium vulgare	С	N	Y
Wild Carrot	Daucus carota	c,h	N	Y
Wild Strawberry	Fragaria vesca	w,h	-	-
Wood Anemone	Anemone nemorosa	w	-	-
Yarrow	Achillea millefolium	c,h	Υ	Y
Yellow Rattle	Rhinanthus minor	С	Υ	N
Yellow Wort	Blackstonia perfoliate	С	N	Y

Table 7.2.1 Ornamental plants of wildlife value (adapted from a list supplied by The Ecology Consultancy)

In inner urban areas within the built-up area boundary, non-native species which attract beneficial wildlife i.e. nectar and pollen rich, may also be used if these are justified to be better suited to the development and the local environment. In the urban area of Brighton and Hove a wide range of horticultural plant varieties offer valuable sources of food for wildlife including nectar, seeds, berries and sap. Others provide nesting or roosting opportunities. Native and ornamental plants should be combined to create colourful, 'near-natural' diverse and interesting wildlife-friendly plantings.

The lists below are not exhaustive, but merely a selection of the more widely available species. They should not be used in the countryside or the urban fringe, where they may invade and damage semi-natural habitats. Planting of fruit trees as "scattered orchards" should seek to use traditional varieties local to Brighton & Hove.

Trees	
Apple	Malus domestica (several ornamental forms available)
Cherry	Prunus spp. (but not ornamental flowering cherries)
Foxglove tree	Paulownia tomentosa
Lacebark	Hoheria spp., e.g. H.glabrata, H. lyallii
Pear	Pyrus spp. e.g. Pyrus calleryana 'Chanticleer'

Shrubs (NB Many of	the shrub species below will form small trees when ma	ture)	
Barberry	Berberis darwinii, B.thunbergii 'Bagatelle', B. x	Gorse	Ulex spp
	stenophylla		
Broom	Genista spp	Himalayan honeysuckle	Leycesteria formosa
California lilac	Ceanothus arborea / spp.	Japanese quince	Chaenomeles japonica
Common myrtle	Myrtus communis	June berry	Amelanchier Canadensis
Hazels	Corylus spp.	Laurustinus	Viburnum tinus
Hawthorns	Crataegus spp.	Lavender	Lavandula angustifolia, L. x intermedia
Holly	Ilex (various cultivars –self-pollinating varieties recommended)	Mahonia	Mahonia spp
Daisy Bush	Olearia x hastii, O. macrodonta and O. traversii	Mock Orange	Philadelphus spp
Elderberry	Sambucus 'Black Lace'	Rock rose	Cistus spp.
Firethorn	Pyracantha spp.	Rosemary	Rosmarinus officinalis
Flowering currant	Ribes sanguineum	Shrubby Veronica	Hebe spp. (select varieties with light coloured flowers)
Flowering Quince	Chaenomeles speciosa		

Herbaceous perennials

A wide variety of herbaceous perennials help support wildlife and the list below is only a small selection. The following general rules can also be used to select good wildlife-friendly plantings:

- Plants with 'Single' flowers (those where the stamens are visible) rather than double flowers.
- Most 'traditional' herbs Rosemary, Sage, Lavenders, Fennel, alliums (chives)
- Plants with flat-topped umbels or (daisy-like) heads
- Most Mints (dead-nettles, Salvia spp.)
- Carrot family (Umbellifers),
- Cabbage (Crucifers) family

Sterile hybrid flowers (e.g. Hydrangea hybrids, Busy Lizzie) are to be avoided.

Good wildlife friendly herbaceous perennials					
Aster	Aster spp	Michaelmas Daisy	Aster novi-belgii, Aster x salignus etc.		
Black-eyed Susan	Rudbeckia hirta or R. fulgida	Purple Verbena	Verbena bonariensis		
Cinquefoil	Potentilla fruticose	Red valerian	Centranthus rubra		
Echinacea	Echinacea purpurea	Russian Sage	Perovskia atriplicifolia		
Escallonia	Escallonia spp	Ice plant	Sedum spectabile		
Foxglove	Digitalis purpurea varieties, D. lutea, D. x mertonensis	Soapwort	Spanoria officinalis		
French Marigold	Tagetes patula	Sweet rocket	Hesperis matronalis		
Globe thistle	Echinops ritro	Teasel	Dipsacus fullonum		
Ice plant	Sedum spectabile	Tobacco plant	Nicotiana affinis		

Wildlife friendly annuals		Climbers		
Blue Wax Flower	Cerinthe major 'purpurascens'	Clematis spp.	Clematis vitalba, C. armandii, C. alpina, C. montana, C. tangutica	
Californian Poppy	Eschscholzia californica	Climbing Hydrangea	Hydrangea petiolaris	
French Marigold	Tagetes patula. Avoid the double flowered varieties	Honeysuckle	Lonicera japonica, L. fragrantissima, L. standishii	
Poached Egg Plant	Limnanthes douglasii	lvy	Hedera helix	
Sunflowers	Helianthus annus	Jasmine	Jasminum officinale	
Tobacco plant	Nicotiana affinis	Virginia creeper	Parthenocissus quinquefolia	

Table 7.2.2 Terrestrial Species to avoid in landscaping schemes

Any plants listed as Non-native Invasive Species in Schedule 9 of Wildlife & Countryside Act 1981 as amended should not be planted within landscaping schemes. The following terrestrial species have comparatively few benefits for wildlife areas and their use should be avoided in landscaping schemes, without specific justification:

Species not to be used in landscaping schemes				
Buddleia	Buddleia spp.			
Cherry Laurel	Prunus laurocerasus			
Cotoneasters	Cotoneaster spp			
Evergreen Oak	Quercus ilex			
False Castor Oil Plant	FatsiaJaponica			
Japanese Rose	Rosa rugosa			
Phormium	Phormium spp.			
Shrubby honeysuckle	Lonicera nitida			
Spotted laurel	Aucuba japonica			
Stags Horn Sumac	Rhus typhinia			

Table 7.3 General principles on planting trees, woodland, hedgerows and scrub

The conservation of existing trees, woodland and hedgerows, and the creation of new native features is encouraged, where this is consistent with other nature conservation objectives. The following general guidelines should be followed in any development involving the planting and creation of new trees, woodland and hedgerows. Proposals should also conform to BS 5837 'Guide for trees in relation to construction' (see also SPD 6 'Trees and Development Sites'):

Planning			
Location	Timing	Design	Species
Trees too close to buildings and car parks can	Bare root trees should be planted	Trees and shrubs for woodland/scrub	Mixes of native species should be used
lead to complaints about leaf fall, shade and	during a frost-free period between	habitats should be spaced between	which reflect local, natural associations.
other problems.	mid- October and early December.	1-2m apart.	
		Two-year old, feathered seedlings or	In inner urban areas, non-native species
Do not plant in locations which could damage	Container- grown trees can be	transplants should be planted (larger	and varieties (such as Firethorn) may be
other biodiversity features,or which coincide	planted throughout the year	sizes are more expensive, slower to	appropriate if they provide good wildlife
with underground or overhead services.	(avoiding periods of drought and	establish have a higher failure	habitat (e.g. berries and nesting habitat
	frost), provided adequate provision is	rate and are prone to vandalism.	for birds). These species should definitely
New hedges, trees and woods are particularly	made for regular watering.		not be used where they could
appropriate where they connect or extend			spread to nearby semi natural habitat.
existing woodlands and wildlife corridors.			
Implementation	·		

Implementation		
Preparation	Management	Aftercare
Compacted soils should be deep-ploughed or 'ripped' before planting.	Trees should be planted the same day or as soon as possible after delivery.	Trees may need protection from rabbit damage following planting and should be kept free of weeds 1m diameter around each stem. Use mulch for five years following planting.
ripped before planting.	Roots should be protected from desiccation and frost damage	Each tree should be drenched with 5 litres of water immediately following planting. Thorough and regular watering may also be necessary for the first two seasons, depending on location.
	during transit and storage.	Dead saplings should be replaced for the first 3 years following planting. Thinning should take place when tree branches become interlaced and growth is suppressed. Wood waste from thinning should be left scattered under the trees to promote woodland floor species. Piles of dead wood should be avoided where they can create a fire risk.
		Existing woods may require enhanced management to remove invasive species, manage access, diversify the rangeof species present, increase light reaching the woodland floor or to promote particularly desirable species.

Table 7.4 Native trees and shrubs suitable for planting in Brighton and Hove

Species	Latin name	Suitable for planting on the urban fringe / downland?	Pioneer species	Tolerant of infertile soil	Cliffs and coast	Pollution tolerant	Tree or shrub
Field Maple	Acer campestre	N		У		У	small tree
Hawthorn	Crataegus monogyna	Υ	У	У	У	У	shrub
Beech	Fagus sylvatica	Y					tree
Juniper	Juniperus communis*	N	У	У	У		shrub
Wild Privet	Ligustrum vulgare	Y	У			У	shrub
Crab Apple	Malus spp.	Y				у	small tree
Blackthorn	Prunus spinosa	Y	У		У		shrub
Pedunculate Oak	Quercus robur	Y				у	tree
Buckthorn	Rhamnus catharticus	Y				у	small tree
Dog Rose	Rosa canina	Y		У			scrambler/shrub
Goat Willow	Salix caprea	N	У		У	У	shrub
Elder	Sambucus nigra	Y	У	У		У	shrub
Yew	Taxus baccata	Y		У		У	small tree
Dogwood	Cornus sanguinea	Y	У	У			shrub
Small-leaved Lime	Tilia cordata	N					tree
Gorse	Ulex europaeus	Y	У	У	У		shrub
Wych Elm	Ulmus glabra	Y				у	tree
Wayfaring Tree	Viburnum lantana	Y	У	У			shrub

The introduction of native woodland ground flora is one way of enhancing existing, established woodlands. Table 7.2 includes recommended species for woodland floor planting. These should be introduced in discrete blocks within woodlands where light levels are between 10% and 40% of daylight in summer, as plug plants or seed. Woodland seed sowing should be at a high rate (10kg of seed per hectare), whereas plant plugs can be introduced at about 5 plants per m².

Hedgerow creation and management follows similar principles to those needed for woodland and scrub. Shrub plants for new hedgerows should be selected from the list provided in Table 7.4, planted at 200mm centres in two rows 150-450mm apart. A 'hedge line' mulch should be used, and species should be planted in blocks of five, which helps to give the developing hedge a naturalistic appearance. After planting, cuthard back to encourage bushy basal growth.

Table 7.5 General principles on creating flower-rich grassland

Ancient, species-rich grassland cannot be recreated but it is possible to create attractive, flower-rich grassland as part of new developments. Chalk grassland creation is encouraged by the Sussex Chalk Grassland BAP where conditions are suitable. The following general guidelines should be followed:

Planning			
Location	Timing	Design	Species
 it will be heavily shaded by trees. the soil is rich in nutrients or will be fertilised Locations suitable for flower-rich	Sow native, local provenance wild flower seed in autumn (September-November), a month after soil treatments have been completed (see Site Preparation)	Avoid small grass patches. These are expensive to maintain and tend to be of low nature conservation value. Aim to create fewer, larger spaces which can incorporate lowmaintenance wild flower areas.	A mix of species should be used which reflect local, natural associations (see Table7.2). Plant plugs, not seeds, should be used to diversify existing grassland. They should be planted 50cm apart. Yellow Rattle (<i>Rhinanthus minor</i>); canbe seeded into existing grassland where it will reduce grass vigour. Seed mixes should be used to establish newflower-rich grassland. Recommended seeding rate: 2g of seed/m², Cornfield annuals should be used as a'nurse crop'.
Implementation			Confineid annuals should be used as a nurse crop .
Site Preparation	Site Management	Aftercare	
Nutrient-rich topsoil should be removed or buriedbefore sowing. Expensive soil improvements, such as drainage, deep ripping and fertiliser treatment are to be avoided. Work the soil in midsummer to minimise compaction problems when wet. Cultivate to aneven tilth (breaking up, raking, harrowing and rolling) and firm surface. Remove large stones (may damage grass cutting equipment). Sowing wildflower seeds. Scuffle the surface after sowing to incorporate seeds in the surface soil.		clippings. Cut to 10cm aboutevery 2 is dominant. Allow a 5 week break in Juthe second year, revert to the cuts do Timing of cutting and cutting frequenew and existing grasslands. In all cabe added at any time. Spring meadow: Do not cut until late 100mm. Because spring meadows are as 'kick about' areas. Summer meadow: Do not cut between between March and mid May helps to period.	recy have an important influence on the species found in ses, cuttings should be removed and no fertilisers should be June, then cut to 50mm. Thereafter cut regularly to e cut before the school summer holidays, they can double en mid-May and late August. Regular cutting to 50mm o eliminate coarse grasses during theirmaximum growth entional. Use mown borders, paths, benches, etc to give

Table 7.6 Aquatic plant species suitable for planting in Brighton and Hove

There are no permanent, naturally occurring freshwater bodies in Brighton and Hove. However, 'dew ponds' have been created on the Downs for centuries and more recently, amenity garden ponds and associated wetland areas have become important for wildlife.

Submerged		Floating		Emergent		Marginal	
Common name	Scientific name	Common name	Scientific name	Common name	Scientific name	Common name	Scientific name
Common Water Crowfoot	Ranunculus aquatilis agg.	Yellow Water Lily	Nuphar lutea	Flowering Rush	Butomus umbellatus	Marsh Marigold	Caltha palustris
Curled Pondweed	Potamogeton crispus	White Water Lily	Nymphaea alba	Branched Bur-reed	Sparganium erectum	Brooklime	Veronica beccabunga
Spiked Water Milfoil	Myriophyllum spicatum			Water Plantain	Alisma plantago	Bogbean	Menyanthes trifoliata
Water Violet	Hottonia palustris					Water Forget-me-not	Myosotis scorpioides
Hornwort	Ceratophyllum demersum					Water Mint	Mentha aquatica
						Reed Sweet Grass	Glyceria maxima
						Yellow Flag	Iris pseudacorus
						Purple Loosestrife	Lythrum salicaria

Table 7.6.1 Invasive aquatic plant species

Aquatic Plants which	equatic Plants which must NOT be used under any circumstances (very invasive)						
Swamp Stonecrop	Crassula helmsii	Water Fern	Azolla filiculoides			Marsh Pennywort	Hydrocotyle Ranunculoides
Parrot's Feather	Myriophyllum aquaticum	Fringed water Liiv	Nymphoides peltate			Himalayan balsam	Impatiens glandulifera
Canadian Pondweed	Elodea canadensis						
Nuttall's Pondweed	Elodean nuttallii						
Curly Waterweed	Lagarosiphon major						

Table 7.7 Coastal vegetated shingle

Coastal vegetated shingle is both a national and Sussex BAP habitat. The Sussex BAPspecifically includes an action to "take advantage of coastal development to create new shingle areas". Coastal shingle is an inhospitable environment for plant growth. Plants experience high-temperature stress and desiccation in summer; saltwater spray, high winds and substrate movement in winter. The substrate itself is nutrient-poor and with very little organic matter. Many species survive by accumulating substantial underground reserves.

Due to the intensive amenity use of the beaches in Brighton and Hove, very few areas of coastal shingle retain natural vegetation. However, opportunities may arise through landscaping within new coastal developments to integrate new vegetated areas.

	Planning			Implementation		
Location	Timing	Design	Species	Site Preparation	Site Management	Aftercare
Any site within 100m of the beach (other than cliffs)	place in spring (March/April) to give plants time to establish before summer desiccation and winter storms.	site to maximise the variety of shingle species that can	Annuals and short-lived plants can be establishedfrom seed. Perennials colonise too slowly and are too susceptible to disturbance when young for seedling establishment. These species require container-	New shingle habitats should be profiled to contain about 20% sandto promote seedling establishment. A depth of at least 20cm shingle is required. Organic matter and fertiliser are not required (may attract weed	vegetated shingle areas are protected from disturbance	
	Sow seed in the autumn or spring	·	grown plants (9cm pots or greater).	species). Aim for a matrix of areas of different textures to promote the establishment of different species.	period.	

Suitable species for new vegetated coastal shingle are:

Sea Kale	Crambe maritima
Sea Holly	Eryngium maritimum
Sea Campion	Silene maritima
Biting Stonecrop	Sedum acre
English Stonecrop	Sedum anglicum
Viper's Bugloss	Echium vulgare
Rock Samphire	Crithmum maritimum
Yellow-horned Poppy	Glaucium flavum

ANNEX 8: Building with Nature – Helping create better places for people and wildlife

Building with Nature (BwN) is a voluntary approach that enables developers and other built environment professionals to go beyond the statutory requirements to deliver more for people and wildlife. The BwN Standards are free to use and provide industry with a benchmark, underpinned by a set of quality standards and 'how-to' guidance, to meet the challenges of the climate, ecological and health emergencies.



BwN Standards can be used for every *type* and *scale* of development across the UK. The benchmark is equally applicable across residential, commercial, and community infrastructure development; and is designed to support the quality of green infrastructure in projects of all sizes, from infill development, up to new settlements.

Building with Nature Accreditation

There are multiple benefits from BwN accreditation as this reduces planning uncertainty, provides a robust set of holistic design principles, delivers Corporate Environmental and Social responsibility and supports marketing and sales of residential developments. This also demonstrates a shared framework of evidence-based Standards with an independent verification of quality and readiness for Biodiversity Net Gain and new local policy requirements.

Building with Nature (BwN) Standards can help to smooth passage of an application through the planning process. By more clearly defining parameters and expectations around quality of green infrastructure (GI), the use of BwN can help create a level playing field for applicants and makes it easier to understand what good looks like for a particular scheme. BwN is already referenced in the National Design Guide and a full summary of references to BwN in local policy documents is available on request.

As an external verification, BwN Accreditation can also raise confidence amongst other important stakeholders, such as elected members. A scheme that has a BwN Design Award in place, or is working towards a BwN Full Award would be welcomed. If a scheme is already developing high-quality GI, then paying for the Award provides an independent verification of that quality. The Award is a way of demonstrating a scheme meets a high standard - and critically - helps to demonstrate that a scheme meets and goes beyond policy compliance and other regulatory requirements.

BwN and BNG work well together. BNG is a quantitative biodiversity metric, and BwN is a qualitative design tool that focuses multi-functionality and quality, helping to embed biodiversity enhancements into a design and maximise opportunities for on-site biodiversity gains. Put simply, BNG is the what and BwN is the how. BwN can be used as the mechanism for assisting schemes in achieving BNG compliance on site, whilst also ensuring quality place-making that provides multiple benefits for people and our planet. The evidence that a design has met BNG can be used as evidence to demonstrate compliance with the Wildlife standards within the BwN Standards.

Climate and Biodiversity Emergencies

As the Council has declared a climate and biodiversity emergency, BwN is one way to demonstrate how development proposals are responding to the challenges of climate change. With a Building with Nature Award in place, the Council councillors and others will be able to clearly see how your development is addressing these issues by meeting the relevant BwN Standards.

BwN Standards provide a clear definition of high-quality Green Infrastructure

BwN Standards are overseen by BwN Standards Board, which has representation from Royal Town Planning Institute, Landscape Institute, Chartered Institute of Ecologists and Environmental Managers, TCPA, representative from government, including Environment Agency, Natural England, and representatives from industry, including Taylor Wimpey. As such, BwN Standards are well respected, and are kept up to date and robust (comfort for LPAs and designers) and can help developers implement Policy DM37.

BwN Accreditation can help guide the design process

The BwN Accreditation system results in Awards but is effectively a "process tool" that can help guide the design process. An Approved BwN Assessor can ensure that all relevant consultants are engaged in the design process at the right time, and can help streamline the design process, save time, avoid mistakes and help the developer to meet all the necessary planning policy and other targets. This is particularly true if BwN Assessors are appointed early on. If a Full Award is pursued, this includes a post-construction check (12-months post-completion) and shows further commitment on the part of the developer (another tick for planning). The requirement for a long-term Landscape and Ecological Management Plan (or equivalent) is likely to be a condition on a consent to secure the delivery of BNG from retained and newly created habitats and BwN can then use this for the post-construction check. High-quality green infrastructure, coupled with higher density schemes, can mean that housing numbers can be achieved at the same time as meeting a range of other policy requirements.

Cohering long-term management and maintenance costs

Part of the BwN Accreditation process is supporting you to get the most cost-effective, sustainable model and mechanism for long-term management and maintenance in place. Your Approved Assessor will be able to offer examples of good practice and may be able to broker partnership working to more efficiently secure practicable solutions to common problems such as adoption of above-ground surface water management features. It is often the case that a civils approach to sustainable drainage can be more costly in the long-term to maintain than "softer" solutions where GI is designed into the SuDS. For more information read about the BwN case studies.