

Biodiversity
Supplementary
Planning Document:
Annexes
For Northamptonshire

August 2015

Annex 1 Habitats and species of importance in Northamptonshire

Feature — species		Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Common name	Scientific name				
BIRDS					
Barn owl	<i>Tyto alba</i>	W&C Act Schedule 1			Y
Bewick's swan	<i>Cygnus columbianus bewickii</i>	W&C Act Schedule 1	Y	Y	
Black redstart	<i>Phoenicurus ochruros</i>	W&C Act Schedule 1			
Black-necked grebe	<i>Podiceps nigricollis</i>	W&C Act Schedule 1			
Black-tailed godwit	<i>Limosa limosa limosa</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
Brambling	<i>Fringilla montifringilla</i>	W&C Act Schedule 1			
Common bullfinch	<i>Pyrrhula pyrrhula pileata</i>		Y	Y	
Common cuckoo	<i>Cuculus canorus</i>	'red list' birds of conservation concern	Y	Y	
Common grasshopper warbler	<i>Locustella naevia</i>	'red list' birds of conservation concern	Y	Y	
Common linnet	<i>Carduelis cannabina autochthona/cannabina</i>	'red list' birds of conservation concern	Y	Y	
Common starling	<i>Sturnus vulgaris vulgaris</i>	'red list' birds of conservation concern	Y	Y	
Corncrake	<i>Crex crex</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
Corn bunting	<i>Miliaria calandra calandra/clanceyi</i>	'red list' birds of conservation concern	Y	Y	
Dunnock/hedge accentor	<i>Prunella modularis occidentalis</i>		Y	Y	
Eurasian curlew	<i>Numenius arquata</i>		Y	Y	
Eurasian tree sparrow	<i>Passer montanus</i>	'red list' birds of conservation concern	Y	Y	
Eurasian wryneck	<i>Jynx torquilla</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
European nightjar	<i>Caprimulgus europaeus</i>		Y	Y	
European turtle dove	<i>Streptopelia turtur</i>	'red list' birds of conservation concern	Y	Y	
Fieldfare	<i>Turdus pilaris</i>	W&C Act Schedule 1, 'red list' birds of conservation concern			
Firecrest	<i>Regulus ignicapilla</i>	W&C Act Schedule 1			
Garganey	<i>Anas querquedula</i>	W&C Act Schedule 1			

Feature — species		Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Common name	Scientific name				
Goshawk	<i>Accipiter gentilis</i>	W&C Act Schedule 1			
Great bittern	<i>Botaurus stellaris</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
Greater scaup	<i>Aythya marila</i>	'red list' birds of conservation concern	Y	Y	
Green sandpiper	<i>Tringa ochropus</i>	W&C Act Schedule 1			
Grey partridge	<i>Perdix perdix</i>	'red list' birds of conservation concern	Y	Y	
Hawfinch	<i>Coccothraustes coccothraustes</i>	'red list' birds of conservation concern	Y	Y	
Herring gull	<i>Larus argentatus argenteus</i>	'red list' birds of conservation concern	Y	Y	
Hobby	<i>Falco subbuteo</i>	W&C Act Schedule 1			
Honey buzzard	<i>Pernis apivorus</i>	W&C Act Schedule 1			
House sparrow	<i>Passer domesticus</i>	'red list' birds of conservation concern	Y	Y	
Kingfisher	<i>Alcedo atthis</i>	W&C Act Schedule 1			
Lesser redpoll	<i>Carduelis cabaret</i>	'red list' birds of conservation concern	Y	Y	
Lesser spotted woodpecker	<i>Dendrocopos minor comminutus</i>	'red list' birds of conservation concern	Y	Y	
Little ringed plover	<i>Charadrius alexandrinus</i>	W&C Act Schedule 1			
Marsh tit	<i>Parus palustris palustris/dresseri</i>	'red list' birds of conservation concern	Y	Y	
Merlin	<i>Falco columbarius</i>	W&C Act Schedule 1			
Montagu's harrier	<i>Circus pygargus</i>	W&C Act Schedule 1			
Nightingale	<i>Luscinia megarhynchos</i>				Y
Northern goshawk	<i>Accipiter gentilis</i>	W&C Act Schedule 1			
Northern lapwing	<i>Vanellus vanellus</i>	'red list' birds of conservation concern	Y	Y	
Peregrine	<i>Falco peregrines</i>	W&C Act Schedule 1			
Quail	<i>Coturnix coturnix</i>	W&C Act Schedule 1			
Red kite	<i>Milvus milvus</i>	W&C Act Schedule 1			
Red-backed shrike	<i>Lanius collurio</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
Redwing	<i>Turdus iliacus</i>	W&C Act Schedule 1, 'red list' birds of conservation concern			
Reed bunting	<i>Emberiza schoeniclus</i>		Y	Y	

Feature — species					
Common name	Scientific name	Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Savi's warbler	<i>Locustella luscinioides</i>	W&C Act Schedule 1, 'red list' birds of conservation concern	Y	Y	
Skylark	<i>Alauda arvensis</i>	'red list' birds of conservation concern	Y	Y	
Song thrush	<i>Turdus philomelos clarkei</i>	'red list' birds of conservation concern	Y	Y	
Spotted flycatcher	<i>Muscicapa striata</i>	'red list' birds of conservation concern	Y	Y	
Tree pipit	<i>Anthus trivialis</i>	'red list' birds of conservation concern	Y	Y	
Willow tit	<i>Parus montanus kleinschmidti</i>	'red list' birds of conservation concern	Y	Y	
Wood warbler	<i>Phylloscopus sibilatrix</i>	'red list' birds of conservation concern	Y	Y	
Yellowhammer	<i>Emberiza citrinella</i>	'red list' birds of conservation concern	Y	Y	
Yellow wagtail	<i>Motacilla flava flavissima</i>	'red list' birds of conservation concern	Y	Y	
FISHES					
Brown/sea trout	<i>Salmo trutta</i>		Y	Y	
European eel	<i>Anguilla anguilla</i>		Y	Y	
Spined loach	<i>Cobitis taenia</i>		Y	Y	
FUNGI (including lichens)					
A lichen	<i>Physcia clementii</i>				Y
Violet crowncup	<i>Sarcosphaera coronaria</i>		Y	Y	
Yellow bird's nest	<i>Monotropa hypopitys</i>		Y	Y	
HERPETILES					
Adder	<i>Vipera berus</i>	W&C Act Schedule 5 killing and injuring s.9(1); sale s.9(5)	Y	Y	
Common lizard	<i>Lacerta vivipara</i>		Y	Y	
Common toad	<i>Bufo bufo</i>		Y	Y	
Grass snake	<i>Natrix natrix</i>	W&C Act Schedule 5 killing and injuring s.9(1)(part); sale s.9(5)	Y	Y	
Great crested newt	<i>Triturus cristatus</i>	W&C Act Schedule 5 (full protection), Habitat Regs s.2	Y	Y	
Palmate newt	<i>Triturus helveticus</i>				Y
Slow-worm	<i>Anguis fragilis</i>	W&C Act Schedule 5 killing and injuring s.9(1)(part); sale s9(5)	Y	Y	
INVERTEBRATES					
Argent and sable	<i>Rheumaptera hastata</i>		Y	Y	
August thorn	<i>Ennomos quercinaria</i>		Y	Y	

Feature — species		Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Common name	Scientific name				
Barred tooth-striped	<i>Trichopteryx polycommata</i>		Y	Y	
Beaded chestnut	<i>Agrochola lychnidis</i>		Y	Y	
Black hairstreak	<i>Satyrium pruni</i>				Y
Blood-vein	<i>Timandra comae</i>		Y	Y	
Brindled beauty	<i>Lycia hirtaria</i>		Y	Y	
Broom moth	<i>Melanchra pisi</i>		Y	Y	
Brown-spot pinion	<i>Agrochola litura</i>		Y	Y	
Buff ermine	<i>Spilosoma luteum</i>		Y	Y	
Centre-barred sallow	<i>Atethmia centrago</i>		Y	Y	
Chalk carpet	<i>Scotopteryx bipunctaria</i>		Y	Y	
Cinnabar	<i>Tyria jacobaeae</i>		Y	Y	
Common fan-foot	<i>Pechipogo strigilata</i>		Y	Y	
The concolourous	<i>Chortodes extrema</i>		Y	Y	
The crescent	<i>Celaena leucostigma</i>		Y	Y	
Dark brocade	<i>Blepharita adusta</i>		Y	Y	
Dark spinach	<i>Pelurga comitata</i>		Y	Y	
Dark-barred twin-spot carpet	<i>Xanthorhoe ferrugata</i>		Y	Y	
Deep-brown dart	<i>Aporophyla lutulenta</i>		Y	Y	
Depressed/compressed river mussel	<i>Pseudanodonta complanata</i>		Y	Y	
Dingy skipper	<i>Erynnis tages</i>		Y	Y	
Dot moth	<i>Melanchra persicariae</i>		Y	Y	
Double dart	<i>Graphiphora augur</i>		Y	Y	
Dusky-lemon sallow	<i>Xanthia gilvago</i>		Y	Y	
Dusky brocade	<i>Apamea remissa</i>		Y	Y	
Dusky thorn	<i>Ennomos fuscantaria</i>		Y	Y	
Ear moth	<i>Amphipoea oculea</i>		Y	Y	
False mocha	<i>Cyclophora porata</i>		Y	Y	

Feature — species		Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Common name	Scientific name				
Feathered gothic	<i>Tholera decimalis</i>		Y	Y	
Figure of eight	<i>Diloba caeruleocephala</i>		Y	Y	
Flounced chestnut	<i>Agrochola helvola</i>		Y	Y	
The forester	<i>Adscita statices</i>		Y	Y	
Four-spotted moth	<i>Tyta luctuosa</i>		Y	Y	
Galium carpet	<i>Epirrhoe galiata</i>		Y	Y	
Garden dart	<i>Euxoa nigricans</i>		Y	Y	
Garden tiger	<i>Arctia caja</i>		Y	Y	
Ghost moth	<i>Hepialus humuli</i>		Y	Y	
Goat moth	<i>Cossus cossus</i>		Y	Y	
Grass rivulet	<i>Perizoma albulata albulata</i>		Y	Y	
Green-brindled crescent	<i>Allophyes oxyacanthae</i>		Y	Y	
Grey dagger	<i>Acronicta psi</i>		Y	Y	
Grizzled skipper	<i>Pyrgus malvae</i>		Y	Y	
Heart moth	<i>Dicycla oo</i>		Y	Y	
Heath rustic	<i>Xestia agathina</i>		Y	Y	
Hedge rustic	<i>Tholera cespitis</i>		Y	Y	
Knot grass	<i>Acronicta rumicis</i>		Y	Y	
The lackey	<i>Malacosoma neustria</i>		Y	Y	
Large nutmeg	<i>Apamea anceps</i>		Y	Y	
Latticed heath	<i>Chiasmia clathrata</i>		Y	Y	
Lime bark beetle	<i>Emoporus tiliae [panzer]</i>				Y
Mellet's downy-back	<i>Ophonus melletii</i>		Y	Y	
Minor shoulder-knot	<i>Brachylomia viminalis</i>		Y	Y	
Mottled rustic	<i>Caradrina morpheus</i>		Y	Y	
Mouse moth	<i>Amphipyra tragopogonis</i>		Y	Y	
Mullein wave	<i>Scopula marginepunctata</i>		Y	Y	
Neglected rustic	<i>Xestia castanea</i>		Y	Y	
Oak hook-tip	<i>Watsonalla binaria</i>		Y	Y	

Feature — species		Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Common name	Scientific name				
Oak lutestring	<i>Cymatophorima diluta</i>		Y	Y	
Oblique carpet	<i>Orthonama vittata</i>		Y	Y	
Oolite downy-back	<i>Ophonus stictus</i>		Y	Y	
Pale eggar	<i>Trichiura crataegi</i>		Y	Y	
Pale shining brown	<i>Polia bombycina</i>		Y	Y	
Phoenix fly	<i>Dorycera graminum</i>		Y	Y	
Powdered quaker	<i>Orthosia gracilis</i>		Y	Y	
Pretty chalk carpet	<i>Melanthia procellata</i>		Y	Y	
Rosy minor	<i>Mesoligia literosa</i>		Y	Y	
Rosy rustic	<i>Hydraecia micacea</i>		Y	Y	
The rustic	<i>Hoplodrina blanda</i>		Y	Y	
The sallow	<i>Xanthia icteritia</i>		Y	Y	
Scarce four-dot pin-palp	<i>Bembidion quadripustulatum</i>		Y	Y	
September thorn	<i>Ennomos erosaria</i>		Y	Y	
Set-aside downy-back	<i>Ophonus laticollis</i> (= <i>Harpalus punctatulus</i>)		Y	Y	
Shaded broad-bar	<i>Scotopteryx chenopodiata</i>		Y	Y	
Shoulder-striped wainscot	<i>Mythimna comma</i>		Y	Y	
Small blue	<i>Cupido minimus</i>		Y	Y	
Small emerald	<i>Hemistola chrysoprasaria</i>		Y	Y	
Small heath	<i>Coenonympha pamphilus</i>		Y	Y	
Small phoenix	<i>Ecliptoptera silacea</i>		Y	Y	
Small square-spot	<i>Diarsia rubi</i>		Y	Y	
The spinach	<i>Eulithis mellinata</i>		Y	Y	
The sprawler	<i>Asteroscopus sphinx</i>		Y	Y	
Stag beetle	<i>Lucanus cervus</i>		Y	Y	
The streak	<i>Chesias legatella</i>		Y	Y	
V-moth	<i>Macaria wauaria</i>		Y	Y	

Feature — species					
Common name	Scientific name	Legal/policy protection	NERC section 41	UK BAP	Northants BAP
White-clawed crayfish	<i>Austropotamobius pallipes</i>		Y	Y	
White-spotted pinion	<i>Cosmia diffinis</i>		Y	Y	
White admiral	<i>Liminitis camilla</i>		Y	Y	
White ermine	<i>Spilosoma lubricipeda</i>		Y	Y	
White letter hairstreak	<i>Satyrium w-album</i>		Y	Y	
Wood white	<i>Leptidea sinapis</i>		Y	Y	
MAMMALS					
Badger	<i>Meles meles</i>	Protection of Badgers Act 1992			
Barbastelle bat	<i>Barbastella barbastellus</i>	W&C Act Schedule 5 disturbance s.9(4)(part); sale s.9(5), Habitat Regs s.2	Y	Y	
Bats (all)	Vespertilionidae and Rinolophidae	W&C Act Schedule 5 disturbance s.9(4)(part); sale s.9(5), Habitat Regs s.2	(some)	(some)	
Brown hare	<i>Lepus europaeus</i>		Y	Y	
Brown long-eared bat	<i>Plecotus auritus</i>		Y	Y	
Harvest mouse	<i>Micromys minutus</i>		Y	Y	
Hazel dormouse	<i>Muscardinus avellanarius</i>	W&C Act Schedule 5 disturbance s.9(4)(part); sale s.9(5), Habitat Regs s.2	Y	Y	
Noctule	<i>Nyctalus noctula</i>		Y	Y	
Otter	<i>Lutra lutra</i>	W&C Act Schedule 5 disturbance s.9(4)(part); sale s.9(5), Habitat Regs s.2	Y	Y	Y
Polecat	<i>Mustela putorius</i>	Habitat Regs s.4	Y	Y	
Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>		Y	Y	
Water vole	<i>Arvicola amphibius</i>	W&C Act Schedule 5 killing and injuring s.9(1)	Y	Y	Y
West European hedgehog	<i>Erinaceus europaeus</i>		Y	Y	
Non-vascular plants					
Clustered earth-moss	<i>Ephemerum cohaerens</i>		Y	Y	
VASCULAR PLANTS					
Annual knawel	<i>Scleranthus annuus</i>		Y	Y	
Basil thyme	<i>Clinopodium acinos</i>		Y	Y	

Feature — species					
Common name	Scientific name	Legal/policy protection	NERC section 41	UK BAP	Northants BAP
Black poplar	<i>Populus nigra ssp. betuifolia</i>				Y
Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act Schedule 8			
Corn buttercup	<i>Ranunculus arvensis</i>		Y	Y	
Flat-sedge	<i>Blasmus compressus</i>		Y	Y	
Fly orchid	<i>Ophrys insectifera</i>		Y	Y	
Frog orchid	<i>Dactylorhiza viridis</i>		Y	Y	
Grass-wrack pondweed	<i>Potamogeton compressus</i>		Y	Y	
Greater water parsnip	<i>Sium latifolium</i>		Y	Y	
Man orchid	<i>Orchis anthropora</i>		Y	Y	
Marsh stitchwort	<i>Stellaria palustris</i>		Y	Y	
Pennyroyal	<i>Mentha pulegium</i>		Y	Y	
Plot's elm	<i>Ulmus plotii</i>				Y
Purple milk-vetch	<i>Astragalus danicus</i>		Y	Y	
Rare spring-sedge	<i>Carex ericetorum</i>		Y	Y	
Red hemp-nettle	<i>Galeopsis angustifolia</i>		Y	Y	
Shepherd's needle	<i>Scandix pecten-veneris</i>		Y	Y	
Tubular water dropwort	<i>Oenanthe fistulosa</i>		Y	Y	
White helleborine	<i>Cephalanthera damasonium</i>		Y	Y	

Feature — habitat	Legal/policy protection	NERC Section 41*	UK BAP	Northants BAP
Eutrophic standing waters		Y	Y	Y
Floodplain grazing marsh		Y	Y	Y
Hedgerows	Hedgerows Regulations	Y	Y	Y
Lowland calcareous grassland		Y	Y	Y
Lowland dry acid grassland		Y	Y	Y
Lowland fen		Y	Y	Y
Lowland heathland		Y	Y	Y
Lowland meadow		Y	Y	Y
Lowland mixed deciduous woodland	NPPF (ancient woodland)	Y	Y	Y
Open mosaics on previously developed land		Y	Y	Y
Ponds		Y	Y	Y
Reedbed		Y	Y	Y
Rivers		Y	Y	Y
Traditional orchard		Y	Y	Y
Wet woodland		Y	Y	Y
Wood-pasture and parkland		Y	Y	Y

Annex 2 Legislation, policy and biodiversity conservation

Legislation

1. The Wildlife and Countryside Act 1981 includes the following offences relevant 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 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 of 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.

Annex 1 of this SPD includes the species listed in Schedules 1, 5 and 8 of the Wildlife & Countryside Act which could occur on development sites in Northamptonshire.

The Act 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 there of plants in Schedule 9.

2. The Conservation of Habitats and Species Regulations 2010 provide for the designation and protection of European Sites, the protection of European Protected Species and the adaptation of planning and other controls for the protection of European Sites.

Under the Regulations, the local planning authority has a general duty, in the exercise of its functions, to have regard to the EC Habitats Directive.

The Regulations make it an offence (subject to exceptions) to deliberately capture, kill, disturb or trade in the animals listed in Schedule 2, or pick, collect, cut, uproot, destroy or trade in the plants listed in Schedule 4. Species listed in Schedule 2 or 4 of the Regulations which may occur on development sites in Northamptonshire are listed in Annex 1 of this SPD.

3. The Countryside and Rights of Way (CROW) Act 2000 Schedule 9 places a duty on public bodies to further the conservation and enhancement of Sites of Special Scientific Interest (SSSI).

Schedule 12 of the Act strengthens the legal protection for threatened species. This includes making certain offences 'arrestable' and establishing the offence of 'reckless disturbance'.

4. The Natural Environment and Rural Communities (NERC) Act 2006 Section 40 places a duty on all public bodies to have regard, so far as is consistent with the proper exercise of their functions, to the purpose of conserving biodiversity.

Section 41 places a duty on the Secretary of State to maintain a list of species and habitats of principal importance for which conservation steps should be taken or promoted. The Government has published a list of these habitats and species. Annex 1 of this SPD lists NERC Section 41 habitats and species which may occur on development sites in Northamptonshire.

5. The Protection of Badgers Act 1992 makes it an offence to interfere with a badger sett, whether by obstructing the entrance, destroying the sett or in any way disturbing the occupant. The 1992 Act defines a badger sett as 'any structure or place which displays signs indicating current use by a badger'.

6. **The Town and Country Planning (Environmental Impact Assessment) Regulations 2011** require the submission of Environmental Impact Assessments for certain types of larger developments (listed in Schedules 1 and 2 of the Regulations) which are likely to have significant effects on the environment.

Policy

1. **The National Planning Policy Framework (NPPF)** states that the planning system should minimise impacts on biodiversity and provide net gains in biodiversity where possible (paragraph 109). Key sections for biodiversity are paragraph 117 regarding planning policy and biodiversity impacts, and paragraph 118 which includes principles for determining planning applications.

The NPPF requires that the mitigation hierarchy be used in making planning decisions. This means that the following steps must be implemented in order:

- Anticipated biodiversity losses should first be avoided
- Impacts considered unavoidable should be mitigated
- Only then should compensation be considered to address residual impacts.

2. **West Northamptonshire Joint Core Strategy (submission version)** relevant policies include:

- BN1 Green Infrastructure Connections
- BN2 Biodiversity
- BN3 Woodland Enhancement and Creation
- BN4 Upper Nene Valley Gravel Pits Special Protection Area
- BN8 The River Nene Strategic River Corridor
- N3 Northampton North SUE
- N4 Northampton West SUE
- N5 Northampton South SUE
- N6 Northampton South of Brackmills SUE
- N7 Northampton Kings Heath SUE
- N8 Northampton North of Whitehills SUE
- N9 Northampton Upton Park SUE
- N9A Northampton Norwood Farm/Upton Lodge SUE
- R1 Spatial Strategy for the Rural Areas

3. **North Northamptonshire Core Spatial Strategy (adopted 2008)** relevant policies include:

- 5 Green Infrastructure
- 13 General Sustainable Development Principles
- 16 Sustainable Urban Extensions

North Northamptonshire Joint Core Strategy 2011-2031 (submission version) relevant policies include:

- 1 Presumption in Favour of Sustainable Development
- 4 Biodiversity and Geodiversity
- 6 Development on Brownfield Land Affected by Contamination
- 8 North Northamptonshire Place Shaping Principles
- 19 The Delivery of Green Infrastructure
- 20 The Nene and Ise Valleys
- 21 Rockingham Forest

4. Local plan saved policies include (this list is not exhaustive and further plans and policy should be considered as they emerge):

South Northamptonshire	Daventry	Northampton	Wellingborough	Kettering	Corby	East Northamptonshire
EV19 Trees and Woodlands	GN1, G2 General	E2 Riverside Landscape	G18 Sites of Nature Conservation Value	K3 Ise Valley	P1(E) Environmental Protection on Development Sites	EN8 Protection of SSSIs, NNRs and LNRs
EV21 Hedgerows, Ponds and Other Landscape Features	EN10 Green Wedges	E4 Water Environment		K4 Slade Valley	P7(E), P8(E), P9(E) Wildlife, Geological and Protection	EN9 Safeguarding Sites of Local Conservation Interest
EV24 Species Protection	EN11 Rural Access Areas	E10, E11, E12 Hedgerows, Trees and Woodland			P14(E) Nature Conservation Strategy	
EV25 Wildlife Corridors, Rivers and Waterways	EN12 Green Links	E17 Nature Conservation				<i>Rural North, Oundle and Thrapston Plan:</i>
EV28 Historic Parks, Gardens and Battlefields	EN25 Comprehensive Landscaping Schemes	E18 Sites of Acknowledged Nature Conservation Value				10 Protection of Local Sites of Conservation Interest and Designation of Local Nature Reserves
EV29 Landscape Proposals	EN35 Ecologically Important Sites in Daventry	L16 River Valley Policy Area				11 Enhancing Biodiversity

Additional local strategies to be considered:

- Northamptonshire Biodiversity Action Plan
- Nene Valley Strategic Plan
- The Northamptonshire Arc
- Northamptonshire's Environmental Character and Green Infrastructure Suite
- Nene Integrated Catchment Management Plan
- Nene Valley Nature Improvement Area

Annex 3 Resources and further information

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Further advice

Amphibian and Reptile Conservation Trust: 665A Christchurch Road, Boscome, Bournemouth, Dorset BH1 4AP. Tel: 01202 391319 Email: enquiries@arc-trust.org Web: www.arc-trust.org/

Bat Conservation Trust: 5th Floor, Quadrant House, 250 Kennington Lane, London SE11 5RD. Email: enquiries@bats.org.uk Web: www.bats.org.uk

Biodiversity Planning Toolkit: Email: info@biodiversityplanningtoolkit.com Web: www.biodiversityplanningtoolkit.com/

Biological Records Centre: CEH Wallingford, Maclean Building, Crowmarsh Gifford, Wallingford, Oxfordshire OX10 8BB. Tel: 01491 692424 Email: brc@ceh.ac.uk Web: www.brc.ac.uk

Buglife (The Invertebrate Conservation Trust): Bug House, Ham Lane, Orton Waterville, Peterborough PE2 5UU. Tel: 01733 201210 Email: info@buglife.org.uk Web: www.buglife.org.uk

Butterfly Conservation Bedfordshire and Northamptonshire branch: Web: <http://butterfly-conservation.org/296/bedfordshire--northamptonshire-branch.html>

Chartered Institute of Ecology and Environmental Management (CIEEM): 43 Southgate Street, Winchester, Hampshire SO23 9EH. Tel: 01962 868626 Email: enquiries@cieem.net Web: www.cieem.net

Environment Agency Anglian Regional Office: Kingfisher House, Goldhay Way, Orton Goldhay, Peterborough PE2 5ZR. Tel: 0370 8506506 Email: enquiries@environment-agency.gov.uk Web: <https://www.gov.uk/government/organisations/environment-agency>

Floodplain Meadows Partnership: Department of Environment, Earth and Ecosystems, The Open University, Walton Hall, Milton Keynes MK7 6AL. Email: floodplain-meadows-partnership@open.ac.uk Web: www.floodplainmeadows.org.uk

Freshwater Habitats Trust (formerly Pond Conservation): First Floor, Bury Knowle House, North Place, Headington, Oxford OX3 9HY. Tel: 01865 595505. Email: info@freshwaterhabitats.org.uk Web: www.freshwaterhabitats.org.uk

Hedgelink: Web: www.hedgelink.org.uk (contact form on website)

Institute of Environmental Management & Assessment (IEMA): Saracen House, Crusader Road, City Office Park, Tritton Road, Lincoln LN6 7AS. Tel: 01522 540069 Email: info@iema.net Web: www.iema.net

MAGIC (Defra's interactive mapping website): Natural England, 3rd Floor, Lateral House, 8 City Walk, Leeds LS11 9AT. Web: <http://magic.defra.gov.uk>

National Biodiversity Network: Broadway Business Centre, 32a Stoney Street, Lace Market, Nottingham NG1 1LL. Tel: 0115 924 7132 Web: <http://nbn.org.uk> NBN Gateway web: <https://data.nbn.org.uk>

Northamptonshire Biodiversity Action Plan: Web: www.northamptonshirebiodiversity.org

Northamptonshire Biodiversity Records Centre: % The Wildlife Trust, Lings House, Lings Way, Billing Lings, Northampton NN3 8BE. Tel: 01604 400448 Email: nbrbc@northantsbrc.org.uk Web: www.northantsbrc.org.uk

People's Trust for Endangered Species: 3 Cloisters House, 8 Battersea Park Road, London SW8 4BG. Tel: 020 7498 4533 Email: enquiries@ptes.org Web: www.ptes.org

Plantlife: 14 Rolleston Street, Salisbury, Wiltshire SP1 1DX. Tel: 01722 342730 Email: enquiries@plantlife.org.uk Web: www.plantlife.org.uk

Royal Society for the Protection of Birds (RSPB): Midlands Regional Office, 46 The Green, South Bar, Banbury, Oxfordshire OX16 9AB. Tel: 01295 253330 Web: www.rspb.org.uk

Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire: Lings House, Lings Way, Billing Lings, Northampton NN3 8BE. Tel: 01604 405285 Email: northamptonshire@wildlifebcn.org Web: www.wildlifebcn.org

Woodland Trust: Kempton Way, Grantham, Lincolnshire NG31 6LL. Tel: 01476 581135 Email: england@woodlandtrust.org.uk Web: www.woodlandtrust.org.uk

Advice on environmentally conscious building techniques

Association for Environment Conscious Building: PO Box 32, Llandysul SA44 5ZA. Tel: 0845 4569773 Web: www.aecb.net

CIRIA: Griffin Court, 15 Long Lane, London EC1A 9PN Tel: 020 7549 3300 Email: enquiries@ciria.org Web: www.ciria.org

Livingroofs: <http://livingroofs.org>. A member of the European Federation of Green Roof Associations, an online resource for all things to do with green roofs and living roofs.

Native wildflower, shrub and tree suppliers

British Wildflower Plants: Burlingham Gardens, 31 Main Road, North Burlingham, Norfolk NR13 4TA. Tel: 01603 711615 Email: office@wildflowers.co.uk Web: www.wildflowers.co.uk

The Community Tree Trust: Web: www.communitytreetrust.co.uk/. Local provenance and native trees, shrubs and wildflowers grown from seed collected from ancient woodlands throughout Bedfordshire

The Conservation Volunteers: Retail Service Team Tel: 01302 388828 Email: retail@tcv.org.uk Web: <http://store.tcv.org.uk>

Emorsgate Seeds: Limes Farm, Tilney All Saints, King's Lynn, Norfolk PE34 4RT. Tel: 01553 829028 Email: enquiries@emorsgateseeds.com Web: <http://wildseed.co.uk>

Flora Locale: % North Wessex Downs AONB, Units 3-4 Denford Manor, Hungerford RG17 0UN. Tel: 01488 686186 Email: info@floralocale.org Web: www.floralocale.org. The Flora Locale website includes a directory of specialist growers and suppliers of British native plants

Germinal Seeds GB (formerly British Seed Houses): Camp Road, Witham St Hughs, Lincoln LN6 9QJ. Tel: 01522 868714 Email: lincoln@germinal.com Web: www.germinalamenity.com

Heritage Fruit Tree Company: Tel 01295 810516/07950 006813 Email: johoward@metronet.co.uk Web: www.heritagefruittrees.co.uk. Supplier of hand-grafted local and regional fruit varieties for individual or orchard planting. Specialises in varieties from Buckinghamshire, Northamptonshire, Oxfordshire and Warwickshire.

Landlife Wildflowers: National Wildflower Centre, Court Hey Park, Roby Road, Knowsley, Liverpool L16 3NA. Tel: 0151 737 1819 Web: www.wildflower.org.uk

OHL Limited: the Ashton Estate sells 'Miriam Rothschild Meadow Mix' from its own meadow at Ashton, Northamptonshire. Tel: 01832 272264 Email: wildflower@ashton.ohllimited.com Web: www.ohllimited.co.uk/ashtonweb/servlet/SoftContent?PageID=7

Phoenix Amenity Supplies Ltd: The Bakery, The Old Vicarage, Hanley Castle, Worcestershire WR8 0BJ. Tel: 01684 212020 Email: support@phoenixamenity.co.uk Web: www.phoenixamenity.co.uk

Wildflower Turf: Ashe Warren Farm, Overton, Basingstoke, Hampshire RG25 3AW. Tel: 01256 771222 Email: wildflower@wildflowerturf.co.uk Web: www.wildflowerturf.co.uk

Other specialist suppliers

Alana Ecology (now part of NHBS): 2-3 Wills Road, Totnes Devon TQ9 5XN Tel: 01803 865913 Email: customer.services@nhbs.com Web: www.nhbs.com//equipment/?ad_id=1206.

Bird Brick Houses: Willow Cottage, Harebeating Lane Hailsham East Sussex BN27 1EP Tel: 01323 849322/07415 067051 Email: enquiries@birdbrickhouses.co.uk Web: www.birdbrickhouses.co.uk. Product range also includes bat bricks/boxes.

CJ Wildlife: The Rea, Upton Magna, Shrewsbury SY4 4UR Tel: 0800 7312820 Email: sales@birdfood.co.uk Web: www.birdfood.co.uk. A wide range of nest boxes for bats and different bird species. Includes products made from WoodStone®, a robust, durable mix of cement and wood fibres which offers protection from predators and a more consistent internal temperature.

Ecosurv Ltd: 21 High Green, Great Ayton North, Yorkshire TS9 6BJ Tel: 01642 724800 Email: enquiries@ecosurv.co.uk Web: www.ecosurv.co.uk. Bat, bird and insect boxes

Ibstock Brick Ltd: Ibstock, Leicestershire LE67 6HS. Tel: 0844 800 4575 Email: enquiries@ibstock.co.uk Web: www.ibstock.co.uk.

Schwegler: www.schwegler-natur.de/index.php?main=produkte&sub=gebaeudebrueter&lang=en. An extensive product range for many different species.

Other

The British Standards Institution. 2013. BS 42020:2013 Biodiversity – Code of practice for planning and development. London: BSI Standards Limited. Web: <http://www.bsigroup.com/en-GB/>

Chartered Institute for Ecology and Environmental Management. 2015. Guidelines for Ecological Report Writing. Available at: www.cieem.net/guidelines-for-ecological-report-writing.

Susdrain: Griffin Court, 15 Long Lane London EC1A 9PN Tel: 020 7549 3300 Email: enquiries@susdrain.org Web: www.susdrain.org. A range of resources for those involved in delivering Sustainable Drainage Systems (SuDS)

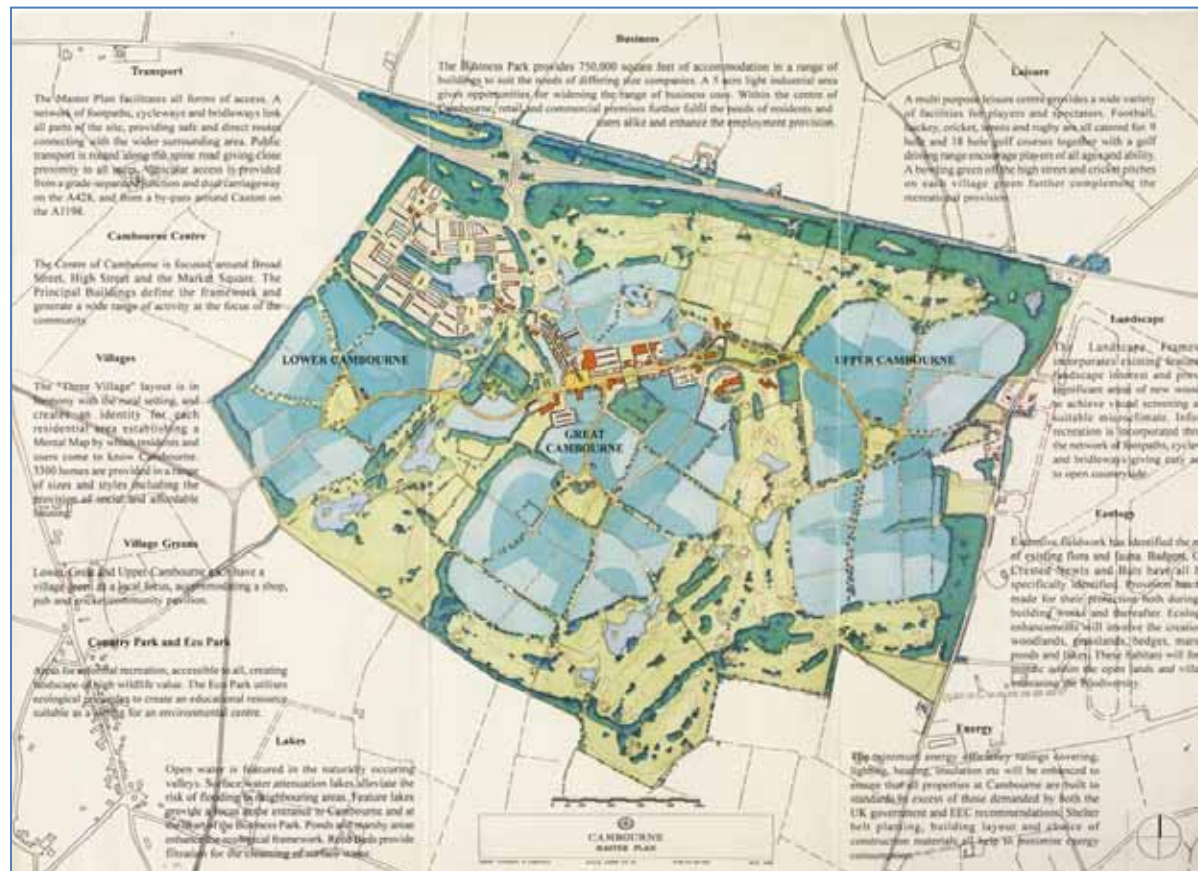
The UK Green Roofs Directory: <http://greenroofdirectory.com/>. A comprehensive online directory of green roof related businesses and resources.

Annex 3 Best practice case study: Cambourne, Cambridgeshire

Examples relating to other types of development can be found at www.biodiversityplanningtoolkit.com/default.asp

The creation of a new settlement between Cambridge and Bedford which contains 4,200 new homes shows how biodiversity conservation formed an integral part of the development masterplan. Natural features are being used to enhance the quality of life for existing and future residents. Biodiversity was considered at an early stage of this development, with the developers employing ecologists as part of the design team. The design process involved identifying, protecting and managing all existing valuable biodiversity features as part of a green infrastructure, creating new areas of habitat and incorporating ecological corridors which provide pedestrian and cycle ways through the site. The design is intended to bring nature in Cambourne right up to residents' doorsteps.

This good practice example shows how the existing biodiversity (which was relatively limited) was protected and how areas of new wildlife interest can be created. The long-term management of the green spaces for biodiversity and people has been secured through a Section 106 agreement. Two members of staff are employed to manage 80 ha of land for nature conservation, including woodland, grassland, lakes and Sustainable Urban Drainage System wetlands.



Cambourne Masterplan 1995 (Terry Farrell & Partners)

The process

Information gathering

Surveys in 1994 indicated that the proposed site contained:

- Four square kilometres of arable land
- A few ditches
- Hedges
- Isolated houses and gardens
- Small scattered woodlands
- An active badger population
- A small great crested newt population
- Bats
- Considerable invertebrate interest in one of the woodlands.

“The landscape and environment are exceptional – the open spaces and their value for people and wildlife. It wasn’t expensive though. A lot of detailed thought went into it.”

Dick Longdin, Master Planner (Randall Thorpe, Landscape Master Planners)

Impact assessment

- Loss of existing hedgerows was likely.
- Possible negative impact on badgers and great crested newts was identified.
- Further isolation and degradation of woodlands was probable due to separation by housing development and road infrastructure and increased use by people.
- Runoff into ditches and watercourses was likely to increase in volume and decrease local water quality.

Avoidance and mitigation

- All important hedgerows have been retained and 11 miles of new hedgerow planted.
- Strategies were produced and implemented to avoid any harm to badgers or great crested newts.
- The badger population has been protected and continues to thrive. Custom-designed ditches provide new sett locations and badger tunnels are well-used.
- All existing woodland has been retained and enhanced and 160 acres of new woodland has been planted.
- Sustainable Drainage systems (SuDS) have been put in place to ensure water quality and quantity is managed within the site.

Compensation

None needed

Enhancement

- Two ‘valleys’ separating the ‘villages’ were deepened (using subsoil from road and building foundations) and designed as Country Park areas with hedged fields, streams, lakes, grassland and trees.

- An EcoPark has been created around existing woodland and the enhanced stream, with new reedbeds, marshes, 'ridge and furrow' grasslands, and a small area of wood-pasture.
- Bat and bird boxes have been erected in suitable habitats across the site.
- Seven on-line lakes, connected by streams, have been created in the two valleys.
- Greenways connect green habitat to the village centres.
- Beyond the built up areas all planting is confined to native species found in Cambridgeshire.

Construction and aftercare

- The employment of an ecologist to oversee the construction phase was ensured through the Section 106 agreement. Surveys and studies have been ongoing on the site to ensure the success of the management plan.

Conditions and obligations

- S.106 agreement covering the production of an Ecological Management Plan and implementation and monitoring of the management plan, by organisations agreed by the Council.
- Conditions to ensure:
 - Production of a landscaping scheme
 - Scheme for phased provision of public open space and its permanent maintenance
 - Great crested newt and badger survey updates and schemes for the protection of these species

Achievements to date

- The great crested newt population is expanding in both numbers and range as the new water bodies mature.
- Water voles and water shrews have colonised the site and are taking advantage of the new lakes and ditches.
- 115 bird species have been recorded on site, about 40 of which are new since 1996.
- 65 bird species have bred on the site and as new lakes mature, the number and variety of waterfowl is increasing.
- The number of butterfly and dragonfly species has increased steadily to 25 and 17 respectively.
- Pipistrelle bats now breed on the site and noctules and Daubenton's bats have also been recorded.
- The residents are enthusiastic about their environment and many — particularly the children — take a considerable interest in the wildlife around them.