

CARAVAN CLUB, TITNORE WAY (SITE 6) PRELIMINARY ECOLOGICAL SUMMARY REPORT

Prepared for Worthing Borough (Council
by	

Hankinson Duckett Associates

HDA ref: 454.2

November 2015

1 Site summary

- 1.1 Site 6 comprises 5.7ha of land bordered to the north by woodland and a fishing lake; to the east by scrubby derelict land; to the south by Titnore Way with residential development beyond; and to the west by West Worthing Tennis Club.
- 1.2 The site comprises a caravan park dominated by regularly mown amenity grassland with patches of scattered early-mature scattered trees, a network of roads and a small number of single-storey buildings. The south-eastern margin of the site comprises a small area of broadleaved woodland. Semi-natural broadleaved woodland borders the site to the north-west and the remaining site boundaries comprise treelines and scrub.
- 1.3 Locations and detailed descriptions of the habitats present at the site are provided in the Phase 1 habitat survey plan and target notes in *Appendix A*.

2 Desk study

- 2.1 No statutory nature conservation designations pertain to the site or adjacent land.
- 2.2 No areas of international importance (i.e. SPA, SAC or RAMSAR) occur within 10km and no National Nature Reserves (NNRs) occur within 5km of the site boundary.
- 2.3 The closest area of national importance to the site is 'Cissbury Ring' Site of Special Scientific Interest (SSSI) which is located approximately 4.2km to the north-east and designated for its chalk grassland habitat. No other SSSIs are located within 5km of the site boundary.
- 2.4 There are no Local Nature Reserves (LNRs) located within 2km of the site.
- 2.5 No non-statutory nature conservation designations pertain to the site. Five Sites of Nature Conservation Importance (SNCIs) occur within 2km of the site. The closest of these are 'Titnore & Goring Woods Complex' SNCI, which borders the site to the north and west.
- 2.6 The part of Titnore & Goring Woods Complex SNCI which borders the western section of the northern site boundary is semi-natural woodland listed on Natural England's Inventory of Ancient Woodlands.
- 2.7 No records of protected and notable species pertain to the site itself. Records provided for within 2km of the site include bats, Hazel Dormouse, Great Crested Newt, Water Vole, reptiles, and notable birds, invertebrates and plants.

2.8 The full results of the desk study including plans showing the locations of nearby designated nature conservation sites and complete protected and notable species records for within 2km of the site are provided in *Appendix B*.

3 Constraints and opportunities

- 3.1 The site is dominated by habitats of **negligible/ less than local** ecological interest in their own right including species-poor and amenity grassland, hardstanding, buildings and non-native trees.
- 3.2 The habitats of greatest value associated with the site are those forming part of Titnore & Goring Woods Complex SNCI, including ancient woodland, treelines and scrub bordering northern and western site boundaries, considered to be of **district** value.
- 3.3 The habitat of greatest value within the site itself is the woodland on the south-eastern site margin. Although dominated by non-native species, the woodland provides opportunities for a range of species and forms a habitat corridor suitable for the movement of wildlife through the local area and is therefore considered of moderate local value. Scrub lines along the southern and eastern boundaries also contribute to the network of linear habitats around the site and are therefore considered in combination to be of low local value.
- 3.4 Native early-mature/ mature scattered trees within the site are considered to be of **low local** value as they significantly enhance the ecological interest of the site, providing opportunities for a range of wildlife and compliment other wooded habitats surrounding the site.
- 3.5 Any development proposals for the site should seek to maintain the integrity of habitats associated with the Titnore & Goring Woods Complex SNCI bordering the site to the north and west through the maintenance of suitable vegetated buffers, connective habitat with the wider, and implementation of measures to minimise potential adverse indirect effects of development including artificial lighting and recreational pressure.
- 3.6 Furthermore, development should also seek to retain features of local value within the site and where appropriate enhance these features and the wider site through management and complimentary habitat creation. Ways in which this could be achieved include:
 - Establishing new native trees, species-rich scrub, rough and meadow grassland along SNCI/ Ancient Woodland buffers to create 'ecotone' habitats noted for their ability to support a high diversity of species;
 - Strengthening of the wildlife corridor network through appropriate management and complimentary planting to enhance existing features, and creation of new linear semi-natural habitats such as species-rich hedgerows and treelines.

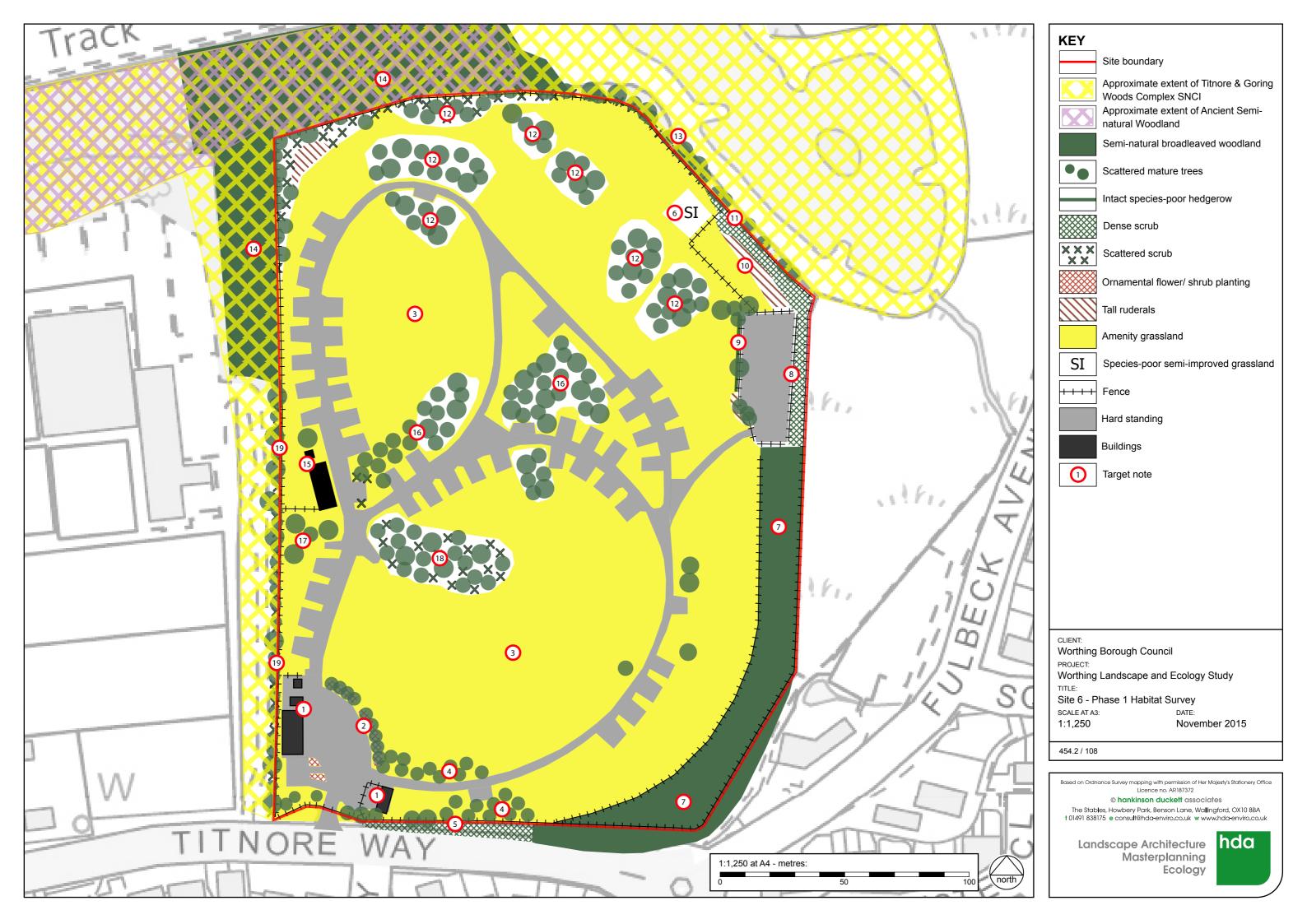
- Creation of a range of habitats with high wildlife interest within areas of public open space such as species-rich grassland, native scrub and hedgerows.
- Creation of wetland habitats such as ponds and swales in conjunction with SuDS proposals.
- Creation of new opportunities for roosting bats and nesting birds through provision of bird and bat boxes on existing trees and new buildings.
- Use native species typical of the local area in landscape planting where appropriate to do so. Where possible these should be sourced from stock of local provenance.
- Prioritising the use of plants which benefit native wildlife within formal landscaping schemes, including nectar- and pollen-rich and fruit- and nut-producing species.

4 Further information requirements

- 4.1 In view of the findings of the desk study and/or habitat resource of the site, consideration should be given to the requirement for the following further surveys and assessment work in support of a planning application:
 - Phase 1 bat survey (scoping inspections of buildings and trees)
 - Phase 2 emergence surveys (if potential for roosting bats identified during Phase 1 bat survey)
 - Phase 2 bat activity survey
 - Great Crested Newt survey
 - Dormouse survey
 - Reptile survey
 - Badger survey
 - Implications of increased recreational pressure on off-site designated areas both alone and in combination with other plans and projects.
- 4.2 It is recommended that the extended Phase 1 habitat survey and desk study are updated by the applicant prior to submission of a planning application. This is in order to ensure that the assessment of habitats at the site and its potential to support protected and notable species reflect any subsequent changes in the ecological character of the site and its surrounds, and strategic nature conservations objectives. The actual requirements for further work should also take into account the nature and extent of proposed development works.

APPENDIX A

Phase 1 habitat survey: Plan and Target Notes



Site 6 - Target Notes

- 1. **Management buildings:** Buildings in the south-western corner of the site include the main reception building which has brick walls and a clay tiled roof; a timber clad garage with pitched tile roof; and a small flat roofed timber clad building used as a shop.
- 2. Shrub beds: Shrub beds to the east of the car park in the south-west of the site have been planted with a number of ornamental shrubs, flowers and a low ornamental hedge. Early-mature trees within and adjacent to the shrub beds include Ash *Fraxinus excelsior*, Sliver Birch *Betula pendula* and hybrid Poplar *Populus* sp.
- 3. Amenity grassland: Regularly mown species-poor grassland associated with the site's use as a caravan park. The sward appears dominated by Perennial Ryegrass *Lolium perenne* with Annual Meadow-grass *Poa annua*, White Clover *Trifolium repens*, Dandelion *Taraxacum* agg,, Greater Plantain *Plantago major*, Daisy *Belis perennis* and Selfheal *Prunella vulgaris*.
- **4. Scattered trees:** Early-mature scattered trees in the south-west of the site include Ash and Sycamore *Acer pseudoplatanus*.
- **5. Southern boundary scrub:** Southern boundary of the site comprising dense outgrown scrub including Hawthorn *Crataegus monogyna*, Sycamore, Norway Maple *Acer platanoides*, Privet *Ligustrum* sp., Ash and abundant Bramble. A few early-mature Ash trees occur at the western end near the main gate into the site.
- 6. Rough grassland: Areas of rough grassland occur in isolation in the north-east of the site and form the ground flora around patches of scattered trees in the north (TN12). The sward is heavily dominated by grasses including Yorkshire Fog Holcus lanatus, Creeping Bent Agrostis stolonifera, Perennial Ryegrass, Sweet Vernal-grass Anthoxanthum odoratum, Cocksfoot Dactylis glomerata, Common Bent Agrostis capillaris and Meadow Foxtail Alopecurus pratensis. Other species include Common Mouse-ear Cerastium fontanum, Wood Dock Rumex sanguineus, Bramble and sapling trees (see TN12).
- 7. Woodland: Area of broadleaved woodland along the south-eastern margins of the site. The majority of the trees are early-mature with a few more mature native trees. The dominant species is Norway Maple with frequent Ash and Aspen Populus tremula. The understorey comprises Hawthorn, Wych Elm Ulmus glabra, Elder Sambucus nigra and Beech Fagus sylvatica. The ground flora includes Rosebay Willowherb Chamerion angustifolium, Ivy, Bramble, Nettle Urtica dioica and sapling trees. The woodland has a path running through it for use as a dog walking route for the caravan site.
- **8.** Caravan storage area/ eastern boundary: A small area in the east of the site comprising compacted gravel surrounded by a mesh fence. To the east along the site boundary is dense scrub including Ash, English Elm *Ulmus procera*, Elder and Bramble, as well as young White Poplar *Populus alba* trees.
- **9. Hedgerow:** A short section of relatively immature hedgerow bordering the caravan storage area (TN8) including Dogwood *Cornus sanguinea*, Elder, Hawthorn, Goat Willow *Salix caprea*, Hazel *Corylus avellana*, Field Maple *Acer campestre* and Guelder Rose *Viburnum opulus*. At the southern end of the hedgerow are a few young Sycamore trees and a Goat Willow shrub with tall ruderal vegetation beneath including Nettle, Bramble and Bittersweet *Solanum dulcamara*.
- 10. Composting area: Small area with a post and wire fence, compost heaps of grass cuttings, and tall ruderal vegetation and scrub (TN11) along the site margin. Tall ruderal vegetation in this area is dominated by Nettle with abundant Spear Thistle Cirsium vulgare and occasional Great Willowherb Epilobium hirsutum, Common Hogweed Heracleum sphondylium and Creeping Thistle Cirsium arvense.
- **11. Northern boundary scrub:** Outgrown scrub bordering the northern site boundary comprising Grey Willow *Salix cinerea*, Goat Willow, Elder, Elm and Bramble, with occasional Ash trees.
- **12. Trees:** Groups of early-mature and mature trees in the northern areas of the site with rough grassland beneath (TN6). Tree species include White Poplar, Field Maple, Grey Poplar *Populus x canescens*, White Willow *Salix alba* and Whitebeam *Sorbus aria*.

- **13. Northern boundary:** Short central section of the northern site boundary bordering a wooded strip within the adjacent 'Titnore and Goring Woods Complex' SNCI which comprises Pedunculate Oak *Quercus robur* trees and Elm scrub.
- **14. Off-site broadleaved woodland:** Areas of mature semi-natural broadleaved woodland bordering the site to the north-west are dominated by Ash with a moderately dense understorey of Hazel, Elder, English Elm, Willows *Salix* sp. and Hawthorn. Other trees include Pedunculate Oak and Alder *Alnus glutinosa*. The northern area of woodland is listed on Natural England's Inventory of Ancient Woodland. The margins of the site in the north-west comprise scattered scrub including Dogwood, Blackthorn *Prunus spinosa*, Field Maple, Elm, Hawthorn, and small areas of rough grass and Bramble.
- **15. Buildings:** A disused toilet/ shower block with brick walls and a pitched tile roof, and smaller wooden cladded building to the immediate north.
- **16. Trees:** Groups of early-mature trees including Ash, Sycamore, Norway Maple, White Willow, Holly *llex aquifolium* and Sweet Chestnut *Castanea sativa*.
- **17. Trees:** Small group of scattered early-mature trees near the eastern boundary including Field Maple, Sycamore and ornamental Maple *Acer* sp.
- **18. Wooded area:** Small wooded area in the central area of the site comprising Aspen, Grey Poplar, Norway Maple, Rowan, Crack Willow *Salix fragilis* and White Poplar. The understorey contains Hawthorn and *Sorbus* sp. The ground flora comprises mostly bare ground, Bramble and Ivy.
- 19. Western boundary: The western boundary of the site generally comprises a mesh fence often with mown amenity grassland right up to the fenceline. Bordering the site to the west is the Titnore and Goring Woods Complex SNCI which comprises a strip of broadleaved semi-natural woodland (see TN14) which narrows towards the south to a line of occasional mature Ash trees. The southern section of boundary also supports Cherry Laurel *Prunus* laurocerasus, Dog Rose and early-mature Sycamore trees.

APPENDIX B

Desk Study Results



Desktop Biodiversity Report

Land off Titnore Way/Fullbeck Avenue, Worthing + 2km radius

ESD/15/563

Prepared for Alex Leishman (Hankinson Duckett Associates)

18th August 2015



Sussex Biodiversity Record Centre report regarding land off Titnore Way/Fullbeck Avenue, Worthing + 2km radius 18/08/2015

Prepared for Alex Leishman Hankinson Duckett Associates ESD/15/563

The following information was requested:

Maps	✓
Sussex Protected Species Register - Excel	✓
Sussex Bat Inventory - Excel	✓
Sussex Bird Inventory - Excel	✓
UK BAP Species Inventory - Excel	✓
Sussex Rare Species Inventory - Excel	✓
Sussex Invasive Alien Species - Excel	✓
Full Species List	
Environmental Survey Directory	✓
SNCI W02 - Highdown Hill & the Miller's Tomb; W03 - The Sanctuary; W04 - Titnore & Goring Woods Complex;	W05 -

SSSI

None

Other Designations/Ownership

Ham Farm Wood; W09 - Clapham Wood.

Environmental Stewardship Agreement; Local Geological Site; National Park; National Trust Property.

Habitats

Ancient tree; Ancient woodland; Lowland calcareous grassland; Traditional orchard; Wood-pasture and parkland.

Important information regarding this report

It must not be assumed that this report contains the definitive species information for the site concerned.

The species data held by the Sussex Biodiversity Record Centre (SxBRC) is collated from the biological recording community in Sussex. However, there are many areas of Sussex where the records held are limited, either spatially or taxonomically.

A desktop biodiversity report from SxBRC will give the user a clear indication of what biological recording has taken place within the area of their enquiry. The information provided is a useful tool for making an assessment of the site, but should be used in conjunction with site visits and appropriate surveys before further judgements on the presence or absence of key species or habitats can be made. It may be that the content of this report guides the reader as to which surveys should be carried out on the site.

This report was compiled using data held at SxBRC at the time of production. SxBRC takes data validation very seriously, but cannot be held responsible for the accuracy of data included in this report.

Copyright

The Sussex Biodiversity Record Centre must be acknowledged in all documents containing any part of the information contained in this report. You can also use the whole of a SxBRC report (unedited) as an appendix in your own report.

The SxBRC operates as agent to the individuals and groups who provide their records free of charge. The data suppliers retain copyright on their data, while SxBRC retains copyright on its desktop biodiversity reports.

Data usage

The data contained within this report is for use in the project for which the data was requested. It is not to be shared with third parties for use in other projects, unless permission is granted from SxBRC.

The data may be used for 12 months, after which a replacement SxBRC report must be requested. This ensures the most up-to-date information is being used.

Ordnance Survey maps

Members of the public wishing to reproduce maps made by SxBRC under East and West Sussex County Council or Brighton and Hove City Council licences must use copying facilities that have been authorised by Ordnance Survey (OS). Further information can be found on the <u>OS website</u>.

Impartiality

SxBRC functions as custodian of biological data. Our role is to collect, manage and disseminate wildlife and habitat data. As such, we have to remain impartial and cannot offer opinions on the biodiversity value of a given site. Similarly, we cannot put forward objections to planning applications or be involved in campaigns.

Supplying records

Our desktop biodiversity reports are only as good as the data we hold. We rely on the continuous submission of records to keep our database up-to-date. We are always grateful to receive records from ecological consultants and members of the public alike. We accept records in many different formats – please see our <u>website</u> for more details.

Confidential Records

The following species are not included in desktop biodiversity reports

Badgers

Badgers are one of our most recognisable native British mammals. They are not considered rare but are protected along with their setts under The Protection of Badgers Act 1992 and schedule 6 of the Wildlife and Countryside Act (1981, as amended).



It is an offence to kill, injure, or take a badger or interfere with a badger sett.

"Interference" is defined by section 3 of The Protection of Badgers Act and includes damaging or destroying a badger sett, obstructing any entrance to a sett and also disturbing a badger when it is occupying a sett. If you need to do any work near to a sett (within 30m) you must contact Natural England for guidance as your activities may require a licence.

With continued persecution of badgers, often for the most cruel and barbaric 'sport', badger records are <u>not</u> included in our species inventory reports, as it has been requested that they remain confidential.

If you need further information about badgers in your enquiry area please contact the Badger Trust Sussex. Contact details can be found on their website: www.badgertrust-sussex.org.uk

Otters

Otters are slowly making a return to Sussex after becoming extinct in the 1960s, but are nowhere near their former numbers and remain very vulnerable.

If there is a river or tributary within 1km of your enquiry area please be aware of the potential for otters in the vicinity, especially if you are undertaking operations that may impact potential otter habitat.



Otters are protected by European and UK law. It is an offence under the Wildlife and Countryside Act 1981 to kill, injure or take an otter from the wild without a licence; to damage or obstruct a holt; or disturb an otter in its resting place. Licences are required for checking holts or for carrying out work that may disturb otters, such as the management of trees that are known to be used as resting sites. Natural England are responsible for issuing these licences in England.

If you need to find out if otters have been recorded in your enquiry area, please get in touch with the Record Centre.

Wood White and Duke of Burgundy butterflies

These two rare butterfly species have a very restricted range in Sussex and records have been made confidential based on advice given from Butterfly Conservation Sussex Branch.

Other confidential records

SxBRC holds records of other species that are confidential. Confidentiality can be for a variety of reasons but is usually to benefit the site or the species. If you need to know if any confidential records have been recorded in your enquiry area, please get in touch with the Record Centre.

MAPS

There are three maps included in a standard desktop biodiversity report which show designated sites (statutory and non-statutory); habitats and natural features; and ownership and management.

The key on a map only shows those layers which are located within the enquiry area or immediate area. Below is a list of all layers which we currently show on our maps, with details of the data source. Citation sheets and further information on each layer can be found towards the back of the pdf report.

Designated sites	
Statutory	
Area of Outstanding Natural Beauty (AONB)	Downloaded from NE website.
Country Park	Downloaded from NE website.
Local Nature Reserve (LNR)	Downloaded from NE website.
Marine Conservation Zone (MCZ)	Downloaded from NE website.
Marine Site of Nature Conservation Importance (MSNCI)	Supplied by ESCC in 2005.
National Nature Reserve (NNR)	Downloaded from NE website.
National Park	Downloaded from NE website.
Ramsar	Downloaded from NE website.
Site of Special Scientific Interest (SSSI)	Downloaded from NE website.
Special Area of Conservation (SAC)	Downloaded from NE website.
Special Protection Area (SPA)	Downloaded from NE website.
Non-Statutory	
Local Geological Site (LGS)	Originally supplied as hand drawn maps by the Booth Museum (Brighton) in 2009, LGS boundaries were digitised by SxBRC. Site boundaries are now administered by SxBRC and the Sussex Geodiversity Partnership and have been further improved as a result of ground surveys between 2010 to 2012.
Notable Road Verge	Owned and provided by ESCC and WSCC.
Site of Nature Conservation Importance (SNCI)	Supplied by WSCC, ESCC & BHCC.
Habitats and natural features	
Ancient/veteran tree	Merged dataset created in July 2009. Data from Ancient Tree Hunt (national survey carried out in 2007/2008) and Tree Register of the British Isles (a charity which collates and updates data on notable trees).
Ancient woodland	Downloaded from NE website.
Black poplar	Created by SxBRC based upon species records arising from Sussex Wetland Landscapes Project.
Chalk stream	Created and owned by SWLP and SxBRC.
Coastal & floodplain grazing marsh	Downloaded from NE website.
Coastal saltmarsh	Supplied by EA, based on data from the SRCMP Habitat Mapping Project.
Coastal sand dune	Supplied by EA, based on data from the SRCMP Habitat Mapping Project.
Coastal vegetated shingle	Downloaded from NE website.
Ghyll woodland	Boundaries drawn on paper maps by Dr Francis Rose which were then digitised by SxBRC. Not ground-truthed.
Intertidal chalk	Supplied by EA, based on data from the SRCMP Habitat Mapping Project.

Intertidal mudflat	Supplied by EA, based on data from the SRCMP Habitat Mapping Project.
Lowland calcareous grassland	Merged dataset from NE and SDJC sources, created in 2005. Administered by SxBRC.
Lowland fen	Created by SxBRC in June 2011. Layer is an amalgamation of all the fen data currently available to SxBRC.
Lowland heathland	High Weald Heathland data created by the High Weald Unit in 2006. The rest of Sussex Heathland data was created by SxBRC, with funding from WSCC and RSPB in 2007.
Lowland meadow	Downloaded from NE website.
Maritime cliff and slope	Supplied by EA, based on data from the SRCMP Habitat Mapping Project.
Open water	Derived from OS mapping. This includes inland and tidal, running and standing water.
Reedbed	Created by SxBRC in June 2011. Layer is an amalgamation of all the reedbed data currently available to SxBRC.
Saline lagoon	Created by SxBRC.
Traditional orchard	Downloaded from NE website.
Wood-pasture & parkland	Downloaded from NE website.
Ownership and management	
Environmental Stewardship Agreement	Downloaded from NE website.
National Trust property	Owned and provided by National Trust.
RSPB reserve	Owned and provided by RSPB. Downloadable from their website.
Sussex Wildlife Trust reserve	Created and maintained by SxBRC on behalf of SWT.
Woodland Trust site	Owned and provided by the Woodland Trust.

Abbreviations

BHCC Brighton and Hove City Council

EA Environment Agency
ESCC East Sussex County Council

NE Natural England

PTES People's Trust for Endangered Species
RSPB Royal Society for the Protection of Birds

SDJC South Downs Joint Committee

SRCMP Strategic Regional Coastal Monitoring Programme

SxBRC Sussex Biodiversity Record Centre
SWLP Sussex Wetland Landscapes Project

SWT Sussex Wildlife Trust

WSCC West Sussex County Council

Natural England datasets

These are available for anyone to download and use in their own Geographical Information System (GIS). Visit www.gis.naturalengland.org.uk for more information and register as a user.

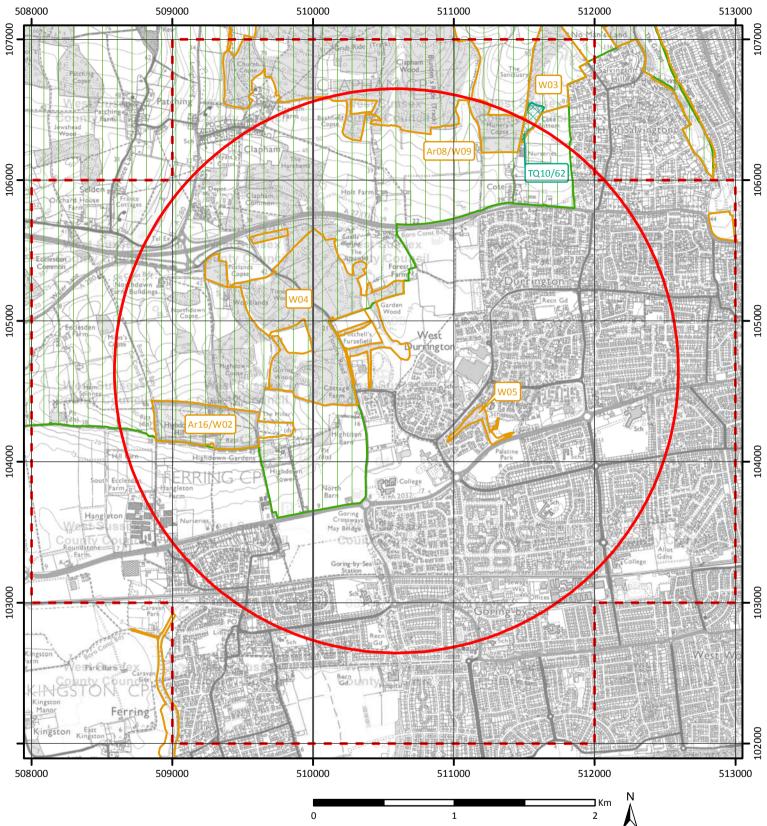
Designated Site Map (ESD/15/563)

Land off Titnore Way/Fullbeck Avenue + 2km radius

Prepared for Alex Leishman (Hankinson Duckett Associates) - 18/08/2015



Woods Mill, Henfield, West Sussex BN5 9SD sxbrc@sussexwt.org.uk 01273 497 558 www.sxbrc.org.uk



Key to Map:

Enquiry area

Species search area

SNCI

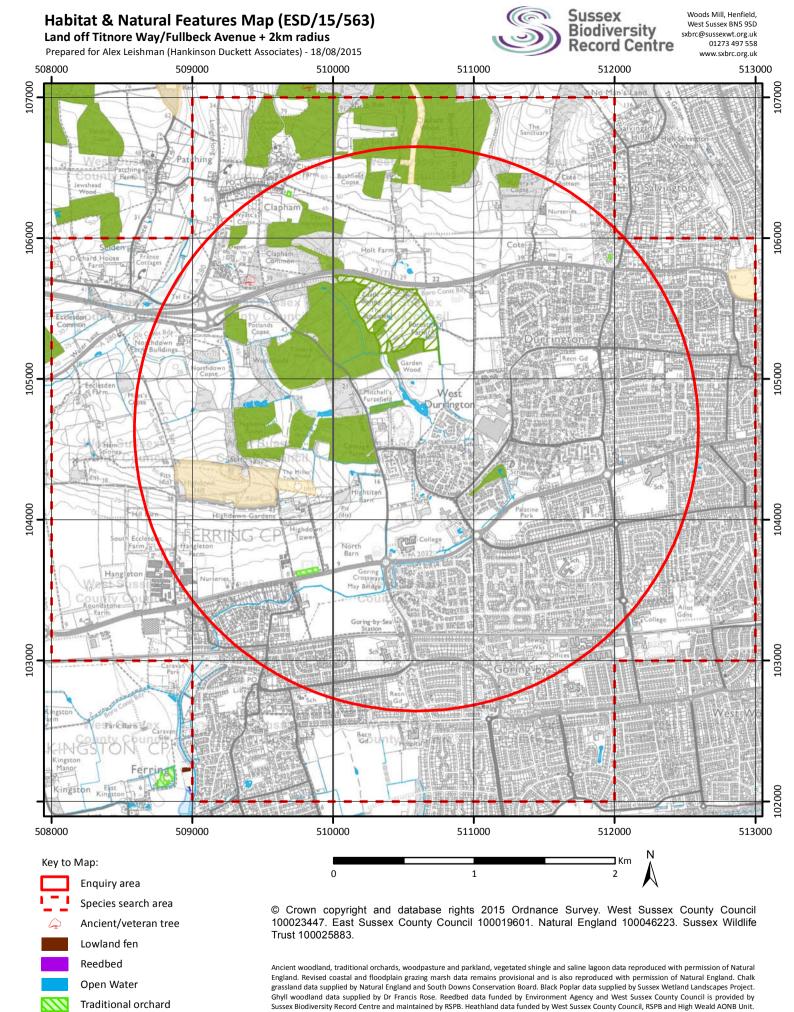
National Park

XXX L

LGS

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RAMSAR, Special Area of Conservation (SAC), Special Protection Area (SPA), National Park, Area of Outstanding Natural Beauty (AONB), National Nature Reserve (NNR), Site of Special Scientific Interest (SSSI), Local Nature Reserve (LNR) and Country Park data reproduced with permission of Natural England. Site of Nature Conservation Importance (SNCI) data provided by East and West Sussex County Councils, and Brighton & Hove City Council. Notable Road Verge data supplied by East and West Sussex County Councils. Local Geological Site (LGS) data created by SXBRC in partnership with Sussex Geodiversity Group. © Crown Copyright. All rights reserved 2015.



Wood-pasture & parkland

Lowland calcareous grassland

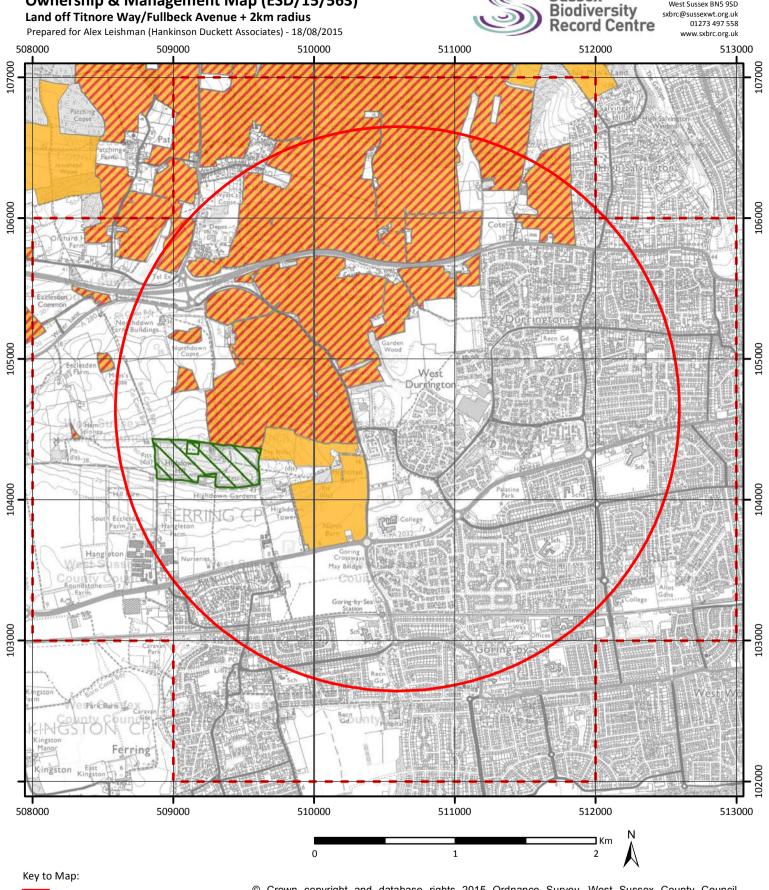
Coastal & floodplain grazing marsh

Ancient woodland

Habitat Mapping data reproduced with permission of Environment Agency. © Crown Copyright. All rights reserved 2015.

Habitat data held by Sussex Biodiversity Record Centre (SxBRC) are created in-house or obtained from a variety of dataset providers. SxBRC continually strive to further improve and update these data wherever possible. However, this map should be treated as indicative rather than definitive: data may be generated from a range of field survey and/or predictive methods, each of which may have its own inherent limitations. In some situations a recent ground survey may be required to establish definitively the current status of a particular habitat at a specific location.

Ancient/veteran tree data derived from results of the Ancient Tree Hunt Project and the Tree Register of the British Isles (TROBI). South East Coastal



Enquiry area

Species search area **National Trust property**

Environmental Stewardship Agreements:

Ownership & Management Map (ESD/15/563)

Land off Titnore Way/Fullbeck Avenue + 2km radius



Higher Level Stewardship (HLS)



Entry Level Stewardship (ELS)





Organic ELS Organic ELS plus HLS



ELS plus HLS

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Woods Mill, Henfield,

West Sussex BN5 9SD

sxbrc@sussexwt.org.uk

Sussex

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Sussex Environmental Survey Directory

Report on behalf of Alex Leishman (Hankinson Duckett Associates) regarding land off Titnore Way/Fullbeck Avenue, Worthing + 2km radius.

Our Ref: ESD/15/563 Date: 18-Aug-15

The Sussex Environmental Survey Directory (ESD) was initiated in 1990 as a tool to report on biological surveys that had taken place in Sussex. The directory now contains information on over 2,000 surveys covering over 22,000 sites. This report details what surveys have been carried out on specific sites and directs the enquirer to where this information is held. The Record Centre does not hold copies of all the reports that it refers enquirers to, but simply directs the enquirer to organisations or individuals who do.

The directory is updated on a weekly basis and also contains summary data on the county's ornithological data, (courtesy of the Sussex Ornithological Society) and on the county's geological sites (courtesy of the Booth Museum).

Survey Name	The Ferring Rife - (3661)	
Survey Author	MP Hall	
Survey Comment Date	The Ferring Rife is a small waterway running from Durrington in NW Worthing to the sea. The waterway is bounded on the east mainly by small gardens and on the west by farmland with large gardens. June 1986	
Site Name	Ferring Rife & Meadows, Ferring - SNCI Ar12 TQ0900	022
Site Comment	A wide channel between two high grassy banks which is 1.3km. Also some of the grassy field adjacent to the rife.	
Copies Available	SxBRC Digital	

Survey Name Management Plan for Whitebeam Woods, Durrington - (3668)

Survey Author BRITISH TRUST CONSERVATION VOLUNTEERS

Survey Comment An Area of semi natural woodland surrounded by recently built housing, with an area of open

parkland on its Eastern boundary. Dominated by oak, English oak and Turkey Oak with Ash,

Field Maple and English Elm.

Date March 1995

Site Name Ham Farm Wood - SNCI W05 TQ112044

Site Comment An ancient woodland within the built up area of Worthing. It consists of ash, field maple and

english elm over hazel and sweet chestnut and sycamore coppice. An old pond to the south has

abundant crack willow. It is owned by Worthing BC.

Copies Available SxBRC Digital

Survey Name Draft Woodland Management Plan-The Harehams Clapham - (3782)

Survey Author

Survey Comment

Date TBC

Site Name The Harehams TQ097061

Site Comment Predominantly Hazel coppice with Oak standards.

Copies Available SxBRC Digital

Survey Name Brief Survey of Land at Old Manor Cottages, Sea Lane, Ferring - (162)

Survey Author GRIFFITHS, Ann

Survey Comment A brief visit to the site with an evaluation and plant species list. Not a comprehensive survey.

Date 1.92

Site Name Land at Old Manor Cottages, Sea Lane, Ferring

TQ097025

Site Comment An area of old buildings and open scrub with developing Elm and Sycamore woodland in the

west of the site.

Copies Available WSCC

Survey Name	Titnore Lane Realignment - Vegetation Survey - (256)	
Survey Author	ANDREWS, John	
Survey Comment	A detailed botanical survey of the area of woodland affected by the proposed lane realignment. (Phase II)	
Date	6.96	
Site Name	Titnore Road/Lane (Realignment Scheme Section) TQ100050	
Site Comment	The area of woodland along Titnore Lane is damp and one of the more floristically rich areas of the wood.	
Copies Available	WSCC	
Survey Name	Bryophytes and Lichens in Chalk Grassland in West Sussex (283)	
Survey Author	ROSE, Francis (Dr).	
Survey Comment	A detailed survey of the Bryophytes (mosses and liverworts) on West Sussex chalk grassland. Areas were identified from Graham Steven's chalk grassland report of 1992. Each area is given a grading according to how rich it is in Bryophytes. Much information was gathered during spring 1993, but information from previous years is also included. (Phase II). [SxBRC (2 copies) filed in G1-3 Box].	
Date	1.93-4.93	
Site Name	Highdown Hill NT TQ095042	
Site Comment	Relict area of chalk grassland some degraded through fertiliser application and hay cutting. Highdown Hill owned by NT. The scrub is confined to narrow strips along the boundary hedgerows and to the old chalk pits. Hill-fort on summit with a clump of trees planted in 1890's. A rich and varied molluscan fauna, including scarce and RDB species.	
Copies Available	SxBRC Boxes, WSCC, EN/LEWES/LIB	
Survey Name	Report on the Molluscs of the West Sussex Chalk Downs 1993 - (293)	
Survey Author	WILLING, Martin J	
Survey Comment	Land molluscs were surveyed at 68 chalk grassland sites in West Sussex (plus 2 further sites reported to the author following completion of the main text). At each site field searches were undertaken and bulk samples of vegetation were taken to record smaller species. Species found are given an abundance rating at sites being newly surveyed for molluscs. The report also contains notes on selected species. (Phase II). [SxBRC copies held in G8 Molluscs box].	
Date	8.92-4.93	

TQ096042

Site Name

Site Comment

Copies Available

Highdown Hill SE Corner

SxBRC Digital, WSCC, EN/LEWES/LIB

Survey Name	National Trust Biological Survey/Nature Conservation Evaluation - (324)	
Survey Author	NATIONAL TRUST	
Survey Comment	A comprehensive, ongoing, ecological survey covering stratigraphy, sedimentology and Petrology. Management Prescriptions were written for some of the sites. Species lists for sites are held at Cirencester. (Phase II/III).	some
Date	1983-	
Site Name	Highdown Hill NT To	Q095042
Site Comment Copies Available	Relict area of chalk grassland some degraded through fertiliser application and hay cuttir Highdown Hill owned by NT. The scrub is confined to narrow strips along the boundary hedgerows and to the old chalk pits. Hill-fort on summit with a clump of trees planted in 1 A rich and varied molluscan fauna, including scarce and RDB species. , SxBRC Digital, SxBRC Digital	

Amphibians in Sussex - A Site Inventory - (334)	
BANKS, Brian, ELLIOTT, M.	
A survey of many ponds in Sussex for their breeding amphibians. Data taken from a summary report entitled 'Amphibians in Sussex - A Site Inventory'. [SxBRC copy held in box G6].	
1980-1989	
Northbrook Pond / Durrington Pond	TQ106042
EN, SxBRC Archive, WSCC	
	BANKS, Brian, ELLIOTT, M. A survey of many ponds in Sussex for their breeding amphibians. Dareport entitled 'Amphibians in Sussex - A Site Inventory'. [SxBRC co 1980-1989 Northbrook Pond / Durrington Pond

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of butterflies and moths, and ferns/bryophytes/lichens were included. ONLY Wes in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed been designated, and are now named accordingly. 1990-3.92	st Sussex covered
Site Name	Fields & Drains East of Ferring (pSNCI)	TQ100020
Site Comment	Potential SNCI. Arable fields separated by ditches and hedges.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)
Survey Author	FINCH, Marion, CLARK, Louise
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92
Site Name	Patching Pond & Stream Area (pSNCI) TQ088057
Site Comment	Potential SNCI. The site includes a large pond, the land surrounding and a stream which feeds it.
Copies Available	WSCC, EN/SSSI/SCI
· · · · · · · · · · · · · · · · · · ·	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	Potlands Copse (pSNCI)	TQ093054
Site Comment Copies Available	Potential SNCI. A woodland on gently sloping north facing slopes dominated by oak standards about 100yrs old with ash, birch and a few conifers. Hazel coppice on lower slopes, sweet chestnut coppice on upper slopes. A well managed coppice wood with boundary banks. WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	The Miller's Tomb (Part of SNCI W02)	TQ097043
Site Comment	An area of species rich chalk grassland with a chalk pit. The pit has much scrub.	
Copies Available	WSCC, EN/SSSI/SCI	

West Sussex Potential SNCI Project - (397) **Survey Name Survey Author** FINCH, Marion, CLARK, Louise A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, **Survey Comment**

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Shaw, South of A27 at Clapham (Part of SNCI W04) TQ097057

Site Comment A small strip of regenerated ancient or old secondary woodland.

WSCC, EN/SSSI/SCI **Copies Available**

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, **Survey Comment**

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

TQ100052

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Titnore Wood & Goring Woods (Part of SNCI W04)

Site Comment The largest area of ancient woodlands in Worthing in 1992. Most is even aged oak standards

over hazel coppice with a rather sparse ground flora.

Copies Available WSCC, EN/SSSI/SCI

West Sussex Potential SNCI Project - (397) **Survey Name**

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name West Lodge Copse, Goring Wood (pSNCI)

TQ100056

Site Comment Potential SNCI. A highly modified area of secondary woodland much of which has been cleared

leaving standards over rye grass. The remaining woodland is oak over hazel coppice.

WSCC, EN/SSSI/SCI Copies Available

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	Goring Wood & Street's Copse (Part of SNCI W04) TQ100046	
Site Comment	A large block of ancient woodland on east facing slopes. Oak standards over hazel coppice. Much clearence has been undertaken.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	Mitchell's Furzefield (Part of SNCI W04) TQ101048	
Site Comment	A possibly ancient wood on gentle south facing slopes leading down to a damp area and ditch in the SE corner.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Date	1990-3.92	
Site Name	Hightiten Barn Pond (pSNCI) TQ101043	
Site Comment	Potential SNCI. Set within an arable field about 20m away from Goring Wood. A pond about 5m wide with good scrubby banks. Water looking unpolluted and it is deeper and more permanent than a dew pond.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	South Lodge Plantation, Goring (Part of SNCI W04)	TQ103049
Site Comment	Old secondary or possibly ancient woodland. A roadside boundary is formed by a characteristically medieval bank/ditch boundary.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	Shaw, Goring Gap (pSNCI) TQ104022	
Site Comment	Potential SNCI. A small strip of secondary woodland with a small area of coppice and a ditch bank boundary. It is set among arable fields.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	Wood East of Titnore Road - (pSNCI) (Developed) TQ104	047
Site Comment	Potential SNCI. Most of this area has been cleared leaving only the northern edge and stream, the eastern edge and a strip along Titmore Road. These areas are ancient woodland.	
Copies Available	WSCC, EN/SSSI/SCI	

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name	The Plantation, Ferring (pSNCI) TQ106020	
Site Comment	Potential SNCI. A secondary woodland running north in a strip from the coast into arable land. A small stream runs through the site.	
Copies Available	WSCC, EN/SSSI/SCI	
Survey Name	West Sussex Potential SNCI Project - (397)	
our roy riamo	Visit Gustonia Giver Fisjon (GGT)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Date	1990-3.92	
Site Name	Upper Northbrook Farm Pond (Part of SNCI W04) TQ106048	
Site Comment	A pond which merges into damp woodland on its northern edge. It has shrubby areas, large patches of marginal flora and aquatic flora. Included in the Titmore and Goring Woods complex SNCI	
Copies Available	WSCC, EN/SSSI/SCI	
Survey Name	West Sussex Potential SNCI Project - (397)	
	(co.)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Date Site Name	1990-3.92 Small Band in Field Upper Northbreak Form (nSNCI) TO106040	
Site Name	Small Pond in Field, Upper Northbrook Farm (pSNCI) TQ106049	
Site Comment	Potential SNCI. A small pond set in an arable field with a margin of shrub and tall grass.	

WSCC, EN/SSSI/SCI

Copies Available

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Northbrook Pond & Nature Area (pSNCI) (Developed)

TQ106041

Site Comment Potential SNCI. This site consists of a small pond and its margins and hedgerow. They are

owned by Worthing District Council and managed for nature conservation. There is a Friends of

Northbrook Pond group which looks after the site.

Copies Available WSCC, EN/SSSI/SCI

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Lower Northbrook Farm Wood (pSNCI) TQ106041

Site Comment Potential SNCI. A secondary woodland with a canopy dominated by sycamore.

Copies Available WSCC, EN/SSSI/SCI

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Ilex Way, Goring (pSNCI) TQ106025

Site Comment Potential SNCI. Strip of rough, species-poor grassland plus species-rich hedgerow and an area

of secondary woodland. Row of Ilex oak between the roads of Ilex Way

Copies Available WSCC, EN/SSSI/SCI

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment		
·	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Date Site Name	1990-3.92	
Site Name	A2032 Shaw, West Durrington (pSNCI) TQ110040	
Site Comment	Potential SNCI. A 10m strip running for about 50m beside the A259 with a ditch forming the NW boundary. It is a remnant of a semi-natural woodland. It is a useful wildlife corridor.	
Copies Available	WSCC, EN/SSSI/SCI	
Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Date	1990-3.92	
Site Name	Ham Farm Wood - SNCI W05 TQ112044	
Site Comment	An ancient woodland within the built up area of Worthing. It consists of ash, field maple and english elm over hazel and sweet chestnut and sycamore coppice. An old pond to the south has abundant crack willow. It is owned by Worthing BC.	
Copies Available	WSCC, EN/SSSI/SCI	
Survey Name	Wort Success Potential SNCI Project (207)	
Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Site Name	1990-3.92 Ham Farm Nurseries/Longcroft Park (pSNCI) TQ113043	
Site Comment	Potential SNCI. Predominately an open space with species poor amenity grassland and planted specimen trees. Along the north edge there is an area of planted native trees and shrubs. Owned by Worthing BC. Part of site falls within SNCI W05.	

WSCC, EN/SSSI/SCI

Copies Available

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name The Sanctuary, High Salvington (pSNCI)

TQ116067

Site Comment Potential SNCI. Predominately species-rich chalk scrub developed over chalk grassland with

older secondary woodland on the upper slopes. There are some open chalk grassland areas. Owned by Worthing BC. There are disturbed chalk pits at the southern end. Most of site falls

within SNCI W03.

Copies Available WSCC, EN/SSSI/SCI

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Training Centre, Worthing (pSNCI) (Developed)

TQ117044

Site Comment Potential SNCI. Most of this site has been built on. The remainder is heavily grazed semi

improved calcareous grassland with areas of hawthorn scrub with taller grasses. Building on site

is known as Gateway House.

Copies Available WSCC, EN/SSSI/SCI

Survey Name West Sussex Potential SNCI Project - (397)

Survey Author FINCH, Marion, CLARK, Louise

Survey Comment A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds,

butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since

been designated, and are now named accordingly.

Date 1990-3.92

Site Name Courtlands Hospital Grounds (pSNCI) (Developed)

TQ118025

Site Comment Potential SNCI. The site consists of the amenity grassland, lake and areas of trees and shrubs

and two small calcareous hay fields surrounded by hedges.

Copies Available WSCC, EN/SSSI/SCI

Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly.	
Site Name	West Hill (Fields nr The Sanctuary), High Salvington (pSNCI)	117067
Site Comment	Potential SNCI. The site consists of two neutral fields separated by a hedge. Hedgerows surround the site. They are species rich. Some of site falls within SNCI W03.	
Copies Available	WSCC, EN/SSSI/SCI	
Survey Name	West Sussex Potential SNCI Project - (397)	
Survey Author	FINCH, Marion, CLARK, Louise	
Survey Comment Date	A survey of potential SNCIs to assess their significance. Incidental records of mammals, birds, butterflies and moths, and ferns/bryophytes/lichens were included. ONLY West Sussex covered in the survey. Where relevant, info. In EN/SSSI Files. NB: some sites listed below have since been designated, and are now named accordingly. 1990-3.92	
Site Name		118059
Site Comment Copies Available	Potential SNCI. The site consists of the hospital grounds and a 100m.sq. field in the north-west of the site. The hospital grounds have amenity grassland and landscaping shrubs and trees. The field is used for grazing. WSCC, EN/SSSI/SCI	

Survey Name	Invertebrate Site Register - (480)	
Survey Author	WILLING, Martin J, PARSONS, M.	
Survey Comment	The Invertebrate Site Register is a document listing sites which are important for invertebrates. It is regularly updated and revised. Information for each site usually includes a site description, the main invertebrate interest and some general comments. This is a collation of information from a variety of sources. (Phase II)	
Date	-	
Site Name	Highdown Hill NT	TQ095042
Site Comment	Relict area of chalk grassland some degraded through fertiliser application and hay cutting. Highdown Hill owned by NT. The scrub is confined to narrow strips along the boundary hedgerows and to the old chalk pits. Hill-fort on summit with a clump of trees planted in 1890's. A rich and varied molluscan fauna, including scarce and RDB species.	
Copies Available	EN	

Survey Name	overtebrate Site Register - (480)	
Survey Author	WILLING, Martin J, PARSONS, M.	
Survey Comment	The Invertebrate Site Register is a document listing sites which are important for invertebrates. It is regularly updated and revised. Information for each site usually includes a site description, the main invertebrate interest and some general comments. This is a collation of information from a variety of sources. (Phase II)	
Date	-	
Site Name	Ferring Grassland & Goring Shore ISR Site	TQ105020
Site Comment	Owned by the local authority. An area of coastal grassland and low cliffs near the sea. I.S.R April 82.	
Copies Available	EN	

Survey Name	Invertebrate Site Register - (480)	
Survey Author	WILLING, Martin J, PARSONS, M.	
Survey Comment	The Invertebrate Site Register is a document listing sites which are important for invertebrates. It is regularly updated and revised. Information for each site usually includes a site description, the main invertebrate interest and some general comments. This is a collation of information from a variety of sources. (Phase II)	
Date	-	
Site Name	Patching Pond Area ISR Site	TQ089059
Site Comment	A pond with redbeds. ISR-April 1982	
Copies Available	EN	

Survey Name	Designated SNCIs (in West Sussex) - (500)
Survey Author	WSCC
Survey Comment Date	All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were at some time designated but which have since be deselected].
Site Name	Ham Farm Wood - SNCI W05 TQ112044
Site Comment	An ancient woodland within the built up area of Worthing. It consists of ash, field maple and english elm over hazel and sweet chestnut and sycamore coppice. An old pond to the south has abundant crack willow. It is owned by Worthing BC.
Copies Available	EN, SWT, WSCC

Survey Name Designated SNCIs (in West Sussex) - (500)

Survey Author WSCC

Survey Comment All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each

site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added, and 1 deleted. [NR: a number of additional sites are also included which are not

were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were

at some time designated but which have since be deselected].

Date 1990-

Site Name The Sanctuary, High Salvington - SNCI W03

TQ117067

Site Comment Owned by Worthing Borough Council; this site consists of a south facing combe and slope

located on the edge of High Slavington. It includes chalk grassland; scrub and woodland.

Copies Available EN, SWT, WSCC

Survey Name Designated SNCIs (in West Sussex) - (500)

Survey Author WSCC

Survey Comment All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each

site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were

at some time designated but which have since be deselected].

Date 1990-

Site Name Titnore & Goring Woods Complex - SNCI W4 (Old Boundaries)

TQ100050

Site Comment This woodland is the largest in Worthing Borough; much of it is ancient. Site has boundaries

prior to 1994 revision.

Copies Available EN, SWT, WSCC

Survey Name Designated SNCIs (in West Sussex) - (500)

Survey Author WSCC

Survey Comment All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each

site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were

at some time designated but which have since be deselected].

Date 1990-

Site Name Offington Cemetery - SNCI W06

TQ129057

Site Comment Owned by Worthing Borough Council this urban amenity is found in the south western corner of

the cemetery & is the largest area of chalk grassland in urban Worthing. It is heavily horse grazed.

Copies Available EN, SWT, WSCC

Survey Name	Designated SNCIs (in West Sussex) - (500)
Survey Author	WSCC
Survey Author	VV 3CC

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Survey Comment All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each

site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites

were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were

at some time designated but which have since be deselected].

Date 1990-

Site Name Ferring Rife & Meadows, Ferring - SNCI Ar12

TQ090022

Site Comment A wide channel between two high grassy banks which is 1.3km. Also some of the grassy field

adjacent to the rife.

Copies Available EN, SWT, WSCC

Survey Name	Designated SNCIs ((in West Sussex)) - ((500)
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Survey Author WSCC

Survey Comment All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each

site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites

were added and 1 deleted. [NB: a number of additional sites are also included which are not designated, but which were presumably considered for designation at some stage, or which were

at some time designated but which have since be deselected].

Date 1990-

Site Name Highdown Hill & The Miller's Tomb - SNCI W2 TQ095042

Site Comment

Copies Available EN, SWT, WSCC

S			
acyara inland sites and a			
s and Kingfishers every m Estuary counts are publi	nonth over the wingshed in "Wildfowl a		results combined with
S			
ng Pond			TQ088056
ntact			
S IS II	s Estuary counts are publi	s Estuary counts are published in "Wildfowl a can be obtained via the above contact. is ing Pond	ing Pond

Survey Name	Botanical Survey of Unimproved Grassland on South Downs in West Sussex 1992 - (549)	

Survey Author STEVEN, Graham

Survey Comment Areas of long-established grassland were surveyed botanically. Areas excluded were under 1ha.,

pioneer communities on bare chalk in pits, road cuttings and areas recently re-established following scrub clearance. (Phase II). NB: since survey aimed to record area of unimproved grassland on the downs, some sites are identified in report (and included below in site list) even

if they were not surveyed as part of this study. [SxBRC (2 copies) held in H3 box].

Date 05-10.92

Site Name Highdown Hill NT TQ095042

Site Comment Relict area of chalk grassland some degraded through fertiliser application and hay cutting.

Highdown Hill owned by NT. The scrub is confined to narrow strips along the boundary hedgerows and to the old chalk pits. Hill-fort on summit with a clump of trees planted in 1890's.

TQ095046

A rich and varied molluscan fauna, including scarce and RDB species.

Copies Available EN, SxBRC Boxes, WSCC

Survey Name	English Nature Woodland Information - (602)
Survey Author	Various
Survey Comment	This is a collation of data on woodlands throughout Sussex. It consists of mostly botanical data, and other information which varies from site to site. (It is held in the woodland cabinet at EN in grid reference order). (Phase II). Woodland Record Cards also held in SxBRC Archive. Recorders include A Whitbread.
Date	-

Site Comment Some parts of this wood are ancient and almost all of it is coppice some of which is still

managed. Oak and Birch are the most frequent trees.

Highdown Copse & Goring Wood South Complex

Copies Available EN, SxBRC Archive

Site Name

Survey Name Survey of Unimproved Grassland in West Sussex (Vol 2) - (618) **Survey Author** ALLWRIGHT, R. These sites were surveyed, classified and a grassland recording card filled out. These original **Survey Comment** results on each site are not included in the final published report. Details of four sites in E Sussex that were also surveyed are also in the same box in a separate envelope. (At EN they are in the W Sussex Grassland Survey box in the library). (Phase II). [SxBRC copy held in H7a Date 6.88-8.88 Site Name Patching Pond (Swamp SW of) TQ086055 **Site Comment** An area of swamp and inundated grassland just south of Patching Pond.

Copies Available EN, SxBRC Boxes, WSCC

Survey Name	Birds of Estuarine Enquiry - (654)		
Survey Author	Various		
Survey Comment	A summary of the results of surveys, combined with WWT's wintering waterfowl counts, are published annually in 'Wildfowl and Wader Counts'. Information on sites can be obtained via the above contact. BTO covers estuaries and sites are counted each month in the winter for waders.		
Date	NOV-MARCH		
Site Name	Goring to Kingston (incl Ferring) Beach & Intertidal Zone	Q100020	
Site Comment			
Copies Available	As contact		
Survey Name	Titnore Road Proof of Evidence. Appendix 2: Woodland Context (690)		
Survey Author	CHRIS BLANDFORD ASSOC.		
Survey Comment	Brief site visits to ancient woodland in the proposed landfill site area. The principle features and species were recorded on a presence/absence basis. Appendix 2 of the Titnore Road Proof of Evidence for the public enquiry. (Phase I)		
Date	3.90-5.90	000001	
Site Name		Q097061	
Site Comment	Predominantly Hazel coppice with Oak standards.		
Copies Available	WSCC		
Survey Name	Titnore Road Proof of Evidence. Appendix 2: Woodland Context (690)		
Occurs Acadle and	CURIO DI ANDECEDE ACCOC		
Survey Author	CHRIS BLANDFORD ASSOC.		
Survey Comment	Brief site visits to ancient woodland in the proposed landfill site area. The principle features and species were recorded on a presence/absence basis. Appendix 2 of the Titnore Road Proof of Evidence for the public enquiry. (Phase I)		
Date	3.90-5.90	_	
Site Name		Q100053	
Site Comment	Predominantly Hazel coppice under Oak with Silver Birch present and some Ash and Fiel	eld	
Copies Available	WSCC		
Survey Name	WSCC Areas of Nature Conservation Value - (700)		
Survey Author	GRIFFITHS, Ann		
Survey Comment	Brief descriptions of areas of conservation value. Records habitats present and selected lists - mostly botanical with casual records of other groups. (Phase I)	species	
Date	1970-1980	0400050	
Site Name		Q100050	
Site Comment	This woodland is the largest in Worthing Borough; much of it is ancient. Site has bounda prior to 1994 revision.	aries	

Copies Available

WSCC

Survey Name	WSCC Areas of Nature Conservation Value - (700)	
Survey Author	GRIFFITHS, Ann	
Survey Comment Date	Brief descriptions of areas of conservation value. Records habitats present and se lists - mostly botanical with casual records of other groups. (Phase I) 1970-1980	lected species
Site Name	Hightiten Barn Wood (ex-Quarry) AoNCV	TQ100041
Site Comment	A derelict chalk quarry which is very overgrown with secondary woodland.	
Copies Available	WSCC	

Survey Name	A27 Worthing/Lancing Improvement - Environmental Statement - (740)	
Survey Author	CHRIS BLANDFORD ASSOC.	
Survey Comment Date	The ecological survey is an appendix to the statement. It identifies areas of semi-natural vegetation and mature conservation significance, giving botanical species lists and a very brief description of most sites. Appendices detail Cissbury Ring and Lancing Ring. (Phase II) 6.90	
Site Name	The Sanctuary, High Salvington (pSNCI) TQ11606	
Site Comment	Potential SNCI. Predominately species-rich chalk scrub developed over chalk grassland with older secondary woodland on the upper slopes. There are some open chalk grassland areas. Owned by Worthing BC. There are disturbed chalk pits at the southern end. Most of site falls within SNCI W03.	
Copies Available	SxBRC Digital	

Survey Name	A27 Worthing/Lancing Improvement - Environmental Statement - (740)	
Survey Author	CHRIS BLANDFORD ASSOC.	
Survey Comment	The ecological survey is an appendix to the statement. It identifies areas of semi-natural vegetation and mature conservation significance, giving botanical species lists and a very brief description of most sites. Appendices detail Cissbury Ring and Lancing Ring. (Phase II)	
Date	6.90	
Site Name	West Hill (Fields nr The Sanctuary), High Salvington (pSNCI)	TQ117067
Site Comment	Potential SNCI. The site consists of two neutral fields separated by a hedge. Hedgerows surround the site. They are species rich. Some of site falls within SNCI W03.	
Copies Available	SxBRC Digital	

Survey Name A27 Worthing/Lancing Improvement - Environmental Statement - (740)

Survey Author CHRIS BLANDFORD ASSOC.

Survey Comment The ecological survey is an appendix to the statement. It identifies areas of semi-natural

vegetation and mature conservation significance, giving botanical species lists and a very brief

description of most sites. Appendices detail Cissbury Ring and Lancing Ring. (Phase II)

Date 6.90

Site Name Wood NW of Munery's Copse

TQ113065

Site Comment A small area of mature Ash and Oak woodland.

Copies Available SxBRC Digital

Survey Name A27 Worthing/Lancing Improvement - Environmental Statement - (740)

Survey Author CHRIS BLANDFORD ASSOC.

Survey Comment The ecological survey is an appendix to the statement. It identifies areas of semi-natural

vegetation and mature conservation significance, giving botanical species lists and a very brief

description of most sites. Appendices detail Cissbury Ring and Lancing Ring. (Phase II)

Date 6.90

Site Name Munery's Copse TQ115062

Site Comment An area of Chestnut and Hazel coppice with standards and a small block of mature woodland.

Copies Available SxBRC Digital

Survey Name Common Bird Census - The Sanctuary - (744)

Survey Author B.T.O

Survey Comment A common bird census of the area. The original maps are included with this report.

Date 3.84 -6.84

Site Name The Sanctuary, High Salvington (pSNCI)

TQ116067

Site Comment Potential SNCI. Predominately species-rich chalk scrub developed over chalk grassland with

older secondary woodland on the upper slopes. There are some open chalk grassland areas. Owned by Worthing BC. There are disturbed chalk pits at the southern end. Most of site falls

within SNCI W03.

Copies Available WSCC

Survey Name	Brief Survey of (Upper) Northbrook Farm - (746)	
Survey Author	ROBERTS, Graham	
Survey Comment	Written notes from a site visit, which are fairly detailed.	
Date	7.91	
Site Name	Upper Northbrook Farm & Land to NE (Developed)	TQ107046
Site Comment	An area of meadow and fields with hedgerows and some ponds.	
Copies Available	WSCC	

Survey Name	Assessors Report on Trees and Woodland - (852)	
Survey Author	BURLEY, P. F.	
Survey Comment	A report dealing with trees and woodland and the more general ecological considerations relevant to the development of the site. It was carried out in relation to a planning application for a landfill site. It gives some details of the character and the species composition of the woodland on the site. Given as evidence at public enquiry. (File No.:APP/P3800/A/90/168282 and 168601).	
Date	1991	
Site Name	Titnore & Goring Woods Complex - SNCI W4 (Old Boundaries) TQ100050	
Site Comment	This woodland is the largest in Worthing Borough; much of it is ancient. Site has boundaries prior to 1994 revision.	
Copies Available	WSCC	

Survey Name	Titnore Road Proof of Evidence - (853)	
Survey Author	MASTERS, Phillip John	
Survey Comment Date	A botanical survey with notes on birds and invertebrates seen during the survey night's light trapping in July 1990. This is Appendix 1 to the proof of evidence. At the woodland context of the lease area (see No.690, Appendix 3 is the manage and Appendix 4 is the nature conservation impact. 1989-1991	Appendix 2 has
Site Name	Titnore & Goring Woods Complex - SNCI W4 (Old Boundaries)	TQ100050
Site Comment	This woodland is the largest in Worthing Borough; much of it is ancient. Site his prior to 1994 revision.	as boundaries
Copies Available	WSCC	

Survey Name	Titnore Road: WSCC Proof of Evidence - (854)	
Survey Author	GRIFFITHS, Ann	
Survey Comment	A summary of botanical survey data, a completed woodland record card, photographs and the loss of woodland in the area. The appendices have a description of the wood into six areas, a report on invertebrates seen on a site visit in August 1990 and speciel lichens, liverworts, mosses and ancient woodland indicators present.	broken up
Date	-	
Site Name	Titnore & Goring Woods Complex - SNCI W4 (Old Boundaries)	TQ100050
Site Comment	This woodland is the largest in Worthing Borough; much of it is ancient. Site has bour prior to 1994 revision.	ndaries
Copies Available	SxBRC Digital	
Survey Name	Sussex Churchyard Survey - (916)	
our roy riamo	Custosk Charthy and Cartoly (C.10)	
Survey Author	DONOVAN, Pat	
Survey Comment Date	Botanical survey of most of the churchyards in Sussex. The majority will have just a sput the ones with ecological significance have more detail. (Phase II). NB: Results he SxBRC for some of sites covered (with details for each site filed according to grid squincluding ESD site nos. 841[TQ33], 1370 [TQ32], 4470 [TQ32], 4341 [SU90]., 4382 [T [SxBRC also holds documents in BRC box H2b].	ld at ares),
Site Name	St Andrew's Churchyard, Ferring	TQ095026
Site Comment	, .	

Survey Name	Sussex Churchyard Survey - (916)	
Survey Author	DONOVAN, Pat	
Survey Comment Date	Botanical survey of most of the churchyards in Sussex. The majority but the ones with ecological significance have more detail. (Phase II SxBRC for some of sites covered (with details for each site filed accincluding ESD site nos. 841[TQ33], 1370 [TQ32], 4470 [TQ32], 4341 [SxBRC also holds documents in BRC box H2b].). NB: Results held at ording to grid squares),
Site Name	St Mary's Churchyard, Clapham	TQ096067
Site Comment		
Copies Available	As contact, SxBRC File Cabs, SxBRC Boxes	

As contact, SxBRC File Cabs, SxBRC Boxes

Copies Available

Survey Name Sussex Churchyard Survey - (916)

Survey Author DONOVAN, Pat

Survey Comment Botanical survey of most of the churchyards in Sussex. The majority will have just a species list,

but the ones with ecological significance have more detail. (Phase II). NB: Results held at SxBRC for some of sites covered (with details for each site filed according to grid squares), including ESD site nos. 841[TQ33], 1370 [TQ32], 4470 [TQ32], 4341 [SU90], 4382 [TQ01].

[SxBRC also holds documents in BRC box H2b].

Date 1980-

Site Name St Mary's Churchyard, Goring TQ111026

Site Comment

Copies Available As contact, SxBRC File Cabs, SxBRC Boxes

Survey Name Sussex Churchyard Survey - (916)

Survey Author DONOVAN, Pat

Survey Comment Botanical survey of most of the churchyards in Sussex. The majority will have just a species list,

but the ones with ecological significance have more detail. (Phase II). NB: Results held at SxBRC for some of sites covered (with details for each site filed according to grid squares), including ESD site nos. 841[TQ33], 1370 [TQ32], 4470 [TQ32], 4341 [SU90]., 4382 [TQ01].

[SxBRC also holds documents in BRC box H2b].

Date 1980-

Site Name St Symphorian's Churchyard, Durrington TQ118053

Site Comment

Copies Available As contact, SxBRC File Cabs, SxBRC Boxes

Survey Name Mollusc Survey with RIGS - (935)

Survey Author MILLAR, Amanda J.

Survey Comment Mollusc surveys carried out on sites visited in the course of regionally important

geological/geomorphological sites (RIGS) survey. [SxBRC copy held in G8 Molluscs box].

Date 1993-1995

Site Name Highdown Hill (Disused Pits W of Summit) TQ089042

Site Comment National Trust property. Scrub and woodland on the lower slopes with improved grassland on

top. Cattle grazed. Well used by public.

Copies Available As contact, SxBRC Boxes

Survey Name	Ecological Survey of Highdown Hill - (940)	
Survey Author	WORTHING NATURAL HISTORY SOCIETY	
Survey Comment	Worthing Natural History Society are monitoring this site approximately exproduce reports which detail geography, geology, history, plants and birds monitoring involves several regular visits. (Phase II)	
Date	1958-59, 1982-83, 1996	
Site Name	Highdown Hill NT	TQ095042
Site Comment	Relict area of chalk grassland some degraded through fertiliser applicatio Highdown Hill owned by NT. The scrub is confined to narrow strips along hedgerows and to the old chalk pits. Hill-fort on summit with a clump of tre A rich and varied molluscan fauna, including scarce and RDB species.	the boundary
Copies Available	As contact	

Survey Name	Ecological Appraisal of Sites in Arun District - (945)	
Survey Author	SPIERS, Tony, RYLAND, Kate	
Survey Comment	A habitat survey of Arun District was undertaken using aerial photographs. The more significant sites were then visited by a survey team and plant species indicated on a present/absent basis. (Phase II). [SxBRC copy held in S1 box].	
Date	1988	
Site Name	Ferring Rife & Surrounds: S of Railway to Kingston Gorse TQ090021	
Site Comment	The rife water is remarkably clean and contained various flora and fauna. The rest of the area is rough grassland with quite a good range of plants.	
Copies Available	SxBRC Boxes, As contact	

Survey Name	Ecological Appraisal of Sites in Arun District - (945)
Survey Author	SPIERS, Tony, RYLAND, Kate
Survey Comment	A habitat survey of Arun District was undertaken using aerial photographs. The more significant sites were then visited by a survey team and plant species indicated on a present/absent basis. (Phase II). [SxBRC copy held in S1 box].
Date	1988
Site Name	Patching Pond & Drain to North TQ088057
Site Comment	The pond is maintained for anglers and has a good aquatic habitat with plenty of aquatic plants.
Copies Available	SxBRC Boxes, As contact

Survey Name	Water Vole Survey - West Sussex - (1059)	
Sumany Author	KEELING Chris	
Survey Author	KEELING, Chris	
Survey Comment	Survey concentrated on the Adur catchment and the Chichester Rifes.	
Date	17.8.98 - 6.9.98	
Site Name	Ferring Rife Water Vole Site, E of Ferring Lane TQ099	035
Site Comment	Water vole tunnel below water level - possible feeding remains in immediate area of tunnel (Al 1998).	ug
Copies Available	WSCC	

Survey Name	West Durrington Ecological Appraisal - (1080)
Survey Author	COUNTRYSIDE PLANNING AND MANAGEMENT
Survey Comment	A detailed survey of the area identifying the habitats and giving some plant species. A map grading the ecological value of the site is included. Conducted for Heron Homes Ltd. See also Survey no. 2753.
Date	6.92
Site Name	West Durrington Proposed Urban Extension Site TQ1050
Site Comment	Site proposed for development, in vicinity of Titnore Lane & Castle Goring, Worthing.
Copies Available	SxBRC Digital

Survey Name	Survey of Land at Chatsmore Farm, Worthing - (1442)				
Survey Author	HELLIWELL, D. R.				
Survey Comment	Survey, by Reading Agricultural Consultants, of arable farmland prior to pro	posed development.			
Date	14.9.99				
Site Name	Chatsmore Farm (Arable Land S of Ferring Rife), Worthing	TQ101033			
Site Comment	Site is flat, surrounded by housing and a dual carriageway. Mostly intensive canalised stream.	ely cultivated with			
Copies Available	SxBRC Digital				

Survey Name	Survey of Church Copse, Clapham Woods - (1446)			
Survey Author	DENNESS, Sue., RICHARDS, Carolyn			
Survey Comment	•			
Date	4.4.98, 2.8.98			
Site Name	Church Copse, Clapham Wood (Part of SNCI Ar08)	TQ095067		
Site Comment	Part of SNCI Ar08.			
Copies Available	As contact			

Survey Name	Biodiversity Audit of West Sussex Mineral Sites - (1516)			
Survey Author	RYLAND, Kate			
Survey Comment	Data collation exercise to assess biodiversity and earth science interest of 58 miner Gives current status of each site and suggests future programme of site visits and states.			
Date	-			
Site Name	Clapham Clay Pit TPA (incl Brick Works) - AR24	TQ093059		
Site Comment	Landfilled - restored to agricultural use. Probably no current ecological interest.			
Copies Available	WSCC			

Survey Name	Ecological survey of the proposed site of a croquet lawn, Ferring (1586)				
Survey Author	DOLPHIN ECOLOGICAL SURVEYS				
Survey Comment	Survey includes spp. lists for two areas with distinct plant communities: the western area comprising woodland, the eastern area scrubland. Abundances of plant species are included, and the ecological importance of the site is discussed. Species lists reflect only those plants visible in March: many others may be present but not evident until later in the year. [SxBRC copy filed under TQ00].				
Date	6.3.95				
Site Name	Land at Old Manor Cottages, Sea Lane, Ferring TQ097025				
Site Comment	An area of old buildings and open scrub with developing Elm and Sycamore woodland in the west of the site.				
Copies Available	SxBRC Digital				
Survey Name	Botanical lists for Whitebeam Wood (Ham Farm Wood SNCI) & Grass Bank (Ham Farm Nurseri				
Survey Author	CURSON, Simon				

Survey Name	Botanical lists for whitebeam wood (Ham Farm wood SNCI) & Grass Bank (Ham Fa	arm inurseri
Survey Author	CURSON, Simon	
Survey Comment	Botanical species lists for grass bank in NW of Longcroft Park, plus incomplete list for Whitebeam Wood (Ham Farm Wood SNCI). NB: Grass Bank is within "Ham Farm now Longcroft Park").	
Date	25.6.98	
Site Name	Ham Farm Wood - SNCI W05	TQ112044
Site Comment	An ancient woodland within the built up area of Worthing. It consists of ash, field map english elm over hazel and sweet chestnut and sycamore coppice. An old pond to the abundant crack willow. It is owned by Worthing BC.	
Copies Available	WSCC	

Survey Name	Botanical lists for Whitebeam Wood (Ham Farm Wood SNCI) & Grass Bank (Ham Farm Nurseri			
Survey Name	Botalical lists for Whitebeath Wood (Halli Falli) Wood SNCI) & Glass Balik (Halli Fallii Nulseli			
Survey Author	CURSON, Simon			
Survey Comment	Botanical species lists for grass bank in NW of Longcroft Park, plus incomplete list for Whitebeam Wood (Ham Farm Wood SNCI). NB: Grass Bank is within "Ham Farm nurseries, now Longcroft Park").			
Date	25.6.98			
Site Name	Ham Farm Nurseries/Longcroft Park (pSNCI) TQ113043			
Site Comment	Potential SNCI. Predominately an open space with species poor amenity grassland and planted specimen trees. Along the north edge there is an area of planted native trees and shrubs. Owned by Worthing BC. Part of site falls within SNCI W05.			
Copies Available	WSCC			
Survey Name	Ecological Survey of Ferring Rife - (1625)			
Survey Name Survey Author	Ecological Survey of Ferring Rife - (1625) RYLAND, Kate			
Survey Author	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC			
Survey Author Survey Comment	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC copy filed under TQ00].			
Survey Author Survey Comment Date	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC copy filed under TQ00]. 05.96, 07.96			
Survey Author Survey Comment Date Site Name	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC copy filed under TQ00]. 05.96, 07.96 Ferring Rife River Corridor TQ090020			
Survey Author Survey Comment Date Site Name Site Comment	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC copy filed under TQ00]. 05.96, 07.96 Ferring Rife River Corridor TQ090020 Ferring Rife extends from the shore to Lower Northbrook Farm.			
Survey Author Survey Comment Date Site Name Site Comment	RYLAND, Kate Botanical surveys, casual observations of fauna + river corridor and habitat surveys. Management recommendations. Report covers area owned by Environment Agency. [SxBRC copy filed under TQ00]. 05.96, 07.96 Ferring Rife River Corridor TQ090020 Ferring Rife extends from the shore to Lower Northbrook Farm.			

Site Comment	Ferring Rife extends from the shore to Lower Northbrook Farm.			
Copies Available	SxBRC Digital			
Survey Name	West Durrington Proposed Urban Extension - Environmental Statement Technical Appendix - (27			
Survey Author	COUNTRYSIDE PLANNING AND MANAGEMENT			
Survey Comment Date	Describes the ecology of land at West Durrington and sets out an impact assessment of development proposed at the site. Information in report mostly derived from a number of site visits undertaken by CPM ecologists over a number of years. Includes a Phase 1 habitat survey conducted in 1992. Flora and fauna observed or heard during general site visits also recorded. Specialist hedgerow and amphibian surveys were also carried out. Further ecological infromation was sought from a variety of sources, including BTO, EN, EA, SBRS, SWT WSCC and others. Report prepared on behalf of Heron Land Developments Ltd, Persimmon Homes and Bryant Homes Southern Ltd. See also Survey No. 1080, which contains some of the same information, but which was published several years earlier.			
Site Name	West Durrington Proposed Urban Extension Site TQ105054			
Site Comment	Site proposed for development, in vicinity of Titnore Lane & Castle Goring, Worthing.			
Copies Available	SxBRC Digital			

Survey Name Land at Lower Northbrook Farm, Titnore Lane, Worthing - Ecological Survey - (2807)

Survey Author MICHAEL WOODS ASSOCIATES

Survey Comment Extended Phase 1 habitat survey of land subject to development proposals. A search for

Badger setts was conducted, as well as an assessment of potential bat roosting sites. Casual sightings of birds and other species were also noted. Survey commissioned by Marshall Clark

LLP on behalf of Chandlers Garage Holdings Ltd. [species data extracted].

Date 02.02.05

Site Name Land at Lower Northbrook Farm, Worthing

TQ104040

Site Comment A greenfield site 2.2ha in area lying east of Titnore Lane, just north of Goring Crossways. To the

south of the site is Northbrook College, to the north houses, gardens and stables. The site is

used for grazing horses and is typical of unkempt urban fringe land.

Copies Available SxBRC Digital

Survey Name Bat & Barn Owl Survey at Forest Farm, Castle Goring - (2851)

Survey Author LOVE, Martin

Survey Comment The survey was a requirement of a planning application to demolish buildings to erect a number

of residential units. A bat and barn owl survey was necessary as part of the planning process.

[spp data extracted].

Date 30.12.04

Site Name Forest Farm Buildings Area, Durrington

TQ107053

TQ092041

Site Comment Area immediately surrounding farm buildings.

Copies Available SxBRC Digital

Survey Name Ecological Assessment - Site of Proposed Smock Mill, Highdown Hill - (2884)

Survey Author CPM Env Planning & Design Ltd.

Survey Comment Report to assess ecological impacts arising from construction of an 8m diameter, 19.2m high

"smock mill" and associated access road and car park. Includes collated data from National Trust biological surveys as well as extracts from other sources. CPM also surveyed site to identify main habitat types in the development site and its surroundings, to describe obvious plant species present, and to check for animal activity, particularly protected species. [spp data

extracted].

Date 17.04.02

Site Name Proposed "Smock Mill" Site, Highdown Hill

Site Comment Proposed development site within an old chalk pit.

Copies Available SxBRC Digital

Glossary of Abbreviations

Organisations:

BBCS British Butterfly Conservation Society www.sussex-butterflies.org.uk

(now Butterfly Conservation)

Booth Museum of Natural History **BMONH** Tel: 03000 290900 BSBI Botanical Society of the British Isles www.bsbi.ora.uk **BTO** British Trust for Ornithology Tel: 01842 750050

EΑ **Environment Agency** Tel: 08708 506506 (Southern Regional Office)

English Nature (now Natural England) Tel: 03000 600 300 (Sussex Team) ΕN East Sussex County Council Tel: 01273 481621 (County Ecologist) **ESCC** Forestry Commission Tel: 01420 23337 (SE England) FC **FWAG**

Farming and Wildlife Advisory Group Tel: 01273 891190 (Sussex Area) Contact NE NCC

Nature Conservancy Council (now NE)

Tel: 03000 600 300 (Sussex Team) NE Natural England National Rivers Authority (now EA) NRA Contact EA

NT National Trust Tel: 01372 453401 (South East Office) RSPB Royal Society for the Protection of Birds Tel: 01273 775333 (SE Regional Office)

SBRS Sussex Botanical Recording Society www.sussexflora.org.uk SOS Sussex Ornithological Society www.sos.org.uk **SxBRC** Sussex Biodiversity Record Centre Tel: 01273 497521

SxWT/SWT Sussex Wildlife Trust Tel: 01273 492630

WSCC West Sussex County Council Tel: 01243 756691 (County Ecologist)

Designations

AONB Area of Outstanding Natural Beauty COGS County Geological/Geomorphological Site

LNR Local Nature Reserve **NNR** National Nature Reserve

National Park NP

RAMSAR (internationally important wetlands) RAMSAR

Regionally Important Geological/Geomorphological Site RIGS

Special Area of Conservation SAC

Site of Nature Conservation Importance SNCI

SPA Special Protection Area

SSSI Site of Special Scientific Interest

Surveys:

Phase I A broad habitat survey with a dominant species list and land use information. Phase II Mapping of vegetation communities with species lists and abundance/distribution. Phase III A detailed survey including ecological processes and long term monitoring information.

NVC National Vegetation Classification.

Sites of Nature Conservation Importance (SNCIs) are non-statutory designations which are identified at a county level. They typically form a network of sites that are recognised to be of local conservation importance and are often included in Local Authority development plans. In other areas of the country they are sometimes called SINCs (Sites of Importance for Nature Conservation) or County Wildlife sites.

There are many sites within East and West Sussex and Brighton and Hove that are not recognised under the national designation of SSSI (Site of Special Scientific Interest) but are of considerable wildlife value due to the special interest of their flora or fauna. In May 1990 a Sussex-wide project was instigated to identify which non-designated sites were important for wildlife. The selected sites are now known as SNCIs. The aim of this identification was to protect such sites from land management changes, which may lessen their nature conservation interest, and to encourage sensitive management to maintain and enhance their importance.

Sites within both rural and urban areas were considered but the evaluation process considers two types of site under slightly different criteria:

- **Rural sites**, that may contain habitats such as heathland or ancient woodland, must be of county-wide importance.
- **Urban sites** must recognise the importance to safeguard important urban wildlife sites, to link all significant greenspaces and to ensure that people in towns have easy access to wildlife areas.

The selection of SNCIs was made, after extensive survey work, by a panel of expert ecologists. This panel included representatives from the relevant County Council, English Nature (now Natural England) and the Sussex Wildlife Trust. A range of specialists with either specific species knowledge or a sound knowledge of the county's ecology were also involved with the selection process. Assessment and identification of SNCIs is a continuing process with new sites being identified and others deleted as ecological knowledge of the total resource and specific sites increase.

In West Sussex SNCI selection is steered by the County Council, whereas in East Sussex it is steered by the District Councils. Currently there are over 600 SNCIs in Sussex.

Although SNCIs have no statutory protection they need to be considered in the planning process through Planning Policy Guidance such as PPG9 which refers to the Town & Country Planning Act 1990 Section 30. This states that nature conservation issues should be included in the surveys of local authority areas to ensure that the plans are based on fully adequate information about local species, habitats, geology and landform. Plans should be concerned not only with designated areas but also with other land of conservation value and the possible provision of new habitats.

SNCI site accounts outline the characteristics of the area based on its semi-natural vegetation and the underlying geology and are in three main sections:-

- Summary which highlights the nature conservation importance of the site
- Site description or site notes which gives further descriptive details about the site and its associated species
- **Management recommendations** which give a brief indication of the type of management that would best maintain the nature conservation interest of the site.

It is important to realise that classification as an SNCI in no way reduces the value of other wildlife sites. Sites of SNCI quality may not have been surveyed for various reasons. All areas of semi-natural vegetation are important to wildlife. Many rare plants and animals occur in seemingly otherwise uninteresting sites and may be overlooked by the survey.

West Sussex

Site Name: Highdown Hill & the Miller's Tomb

Site Ref: Ar16 / W02 Owner: National Trust & Worthing Borough

Council

District: Arun & Worthing Size (ha): 22.9

Parish: Ferring & Worthing Date: Identified May 1992. Revised May 1997.

National Grid Ref: TQ095042 Author: Simon Curson

Habitat: Chalk grassland, scrub and chalk pits

Summary

The Miller's Tomb SNCI, identified in 1992, comprises a small area of species-rich chalk grassland. The SNCI was extended in 1997 to include Highdown Hill. The whole site comprises relatively unimproved chalk grassland and scrub on the south facing scarp of a small outlier of the South Downs near Worthing. Although heavily used for informal recreation, the site supports several uncommon plants and animals.

Site description

The grassland has received fertiliser in the past when a hay crop was taken and is now mostly grass dominated with species such as Upright Brome *Bromus erectus*, Red Fescue *Festuca rubra* and Tall Fescue *Festuca arundinacea* prominent. Despite this some typical chalk grassland herbs are present including Hairy Violet *Viola hirta*, Fairy Flax *Linum catharticum*, Glaucous Sedge *Carex flacca*, the rare Round-headed Rampion *Phyteuma tenerum* and large quantities of Sainfoin *Onobrychis viciifolia*, especially on the reservoir. On the areas of deeper soil Bulbous Buttercup *Ranunculus bulbosa*, Salad Burnet *Sanguisorba minor*, Ribwort Plantain *Plantago lanceolata* and Rough Hawk's-beard *Crepis biennis* occur.

Chalk scrub is found around the old chalk pits and site boundaries, typically comprising Hawthorn, Ash, Dogwood, Elder, Privet, Buckthorn and Traveller's Joy *Clematis vialba*. Associated with the scrub are patches of taller grassland containing False Oat-grass *Arrhenatherum elatius*, Hoary Ragwort *Senecio erucifolius*, Wild Parsnip *Pastinaca sativa*, Common Knapweed *Centaurea nigra* and Hemp Agrimony *Eupatorium cannabinum*. A clump of trees including Beech, Holm Oak, Ash and Scots Pine is present on the hill fort.

The mosaic of short turf, taller herbs and scrub makes the site a valuable habitat for birds and invertebrates. Fauna recorded here include Carthusian snail, a Red Data Book species, Long-winged Cone-head, Common Lizard, Glowworm, the scarce Chalkhill Blue and 17 commoner butterfly species and a range of birds including Long-tailed Tit, Whitethroat, Chiffchaff, Linnet, Bullfinch and occasional Nightingales.

Management recommendations

Grazing the site would be the most beneficial management for the site; however this may not be practical due to the high recreational pressure. Cutting the grassland areas annually and removing the cuttings may be the most practical method of maintaining the grassland. The areas of tall herb and scrub would benefit most if left to develop naturally. However it would be best to control any further spread of the scrub.

West Sussex

Site Name: The Sanctuary, High Salvington

Site Ref: W03 Owner: Worthing Borough Council

District: Worthing Size (ha): 19.5

Parish: N/A Date: Identified May 1992

National Grid Ref: TQ117067 Author: Simon Curson

Habitat: Chalk grassland, scrub and semi-natural woodland

Summary

The site consists of a south-facing coombe and slope, located on the edge of High Salvington. The north and west part of the site is a mosaic of species-rich scrub, secondary woodland and chalk grassland, which is managed as a bird sanctuary. The rest is open, herb-rich grassland.

The site represents a scarce habitat in the Borough. Meadow Clary *Salvia pratensis*, a Red Data Book species, occurs here in one of only two sites in West Sussex.

Site description

The bird sanctuary consists of woodland, scrub and grassland. Older woodland is dominated by Oak over Hazel coppice, with a fern-rich ground flora. More recent woodland has Oak and Ash, with a shrub layer of Hawthorn, Blackthorn, Elder and Holly and a sparse ground flora, due to dense shade. The scrub has similar species with Dogwood, Willow, Old Man's Beard *Clematis vitalba* and Dog Rose *Rosa canina*, and tall herbs on the margins. Species-rich chalk grassland occurs in rabbit-grazed clearings, supporting such typical species as Wild Basil *Clinopodium vulgare*, Harebell *Campanula rotundifolia* and Small Scabious *Scabiosa columbaria*.

The open grassland is divided into two fields by a hedge. It appears to be an old meadow with rye Grass *Lolium perenne* seeded in, but supports a wide variety of species. The main grasses include Cock's-foot *Dactylis glomerata*, Sweet Vernal grass *Anthoxanthum odoratum*, Crested Dog's-tail *Cynosurus cristatus* and Meadow Fescue *Festuca pratensis*. Typical herbs include Wild Carrot *Daucus carota*, Yarrow *Achillea millefolium* and Common Knapweed *Centaurea nigra*, with clumps of Bramble *Rubus fruticosus* and Dog Rose. Coarser grassland occurs in areas of enrichment and disturbance.

The combination of grassland and scrub is important for birds and invertebrates.

Management recommendations

The woodland and scrub provide valuable cover for birds, but some clearance would benefit the chalk grassland, which represents the rarer habitat in the County. The fields should be cut in late July and all cuttings removed. Grazing appears to be impractical due to high public use of the site.

West Sussex

Site Name: Titnore & Goring Woods Complex

Site Ref: W04 Owner: Private

District: Worthing Size (ha): 78.6

Parish: N/A Date: Identified May 1992. Revised May 1994.

National Grid Ref: TQ100050 Author: Jill Barton

Habitat: Semi-natural woodland and pond

Summary

This woodland complex is the largest in Worthing Borough. Much of it is ancient in origin, although its structure and species composition vary considerably, due to management. The site is of outstanding importance as a large area of semi-natural habitat close to a heavily built-up area.

Site description

The majority of the woodland is dominated by Oak with Ash, Elm, Birch and Beech. The shrub layer is very variable, with area of Hazel or Sweet Chestnut coppice or a mixture of Holly, Hawthorn, Blackthorn, Willow and Elder. The ground flora is predominantly Bramble *Rubus fruticosus*, Bluebell *Hyacinthoides non-scripta* and Bracken *Pteridium aquilinum*, with Wood Sage *Teucrium scorodonia*, Male Fern *Dryopteris filix-mas* and Honeysuckle *Lonicera periclymenum* also typical. It tends to be sparse in dense shade. Ash occurs where the ground is damp and base-enriched, with Hazel and some Field Maple and Wild Privet under, and a ground flora of sedges *Carex* spp, ferns, Yellow Flag *Iris pseudacorus* and Dog's Mercury *Mercurialis perennis*.

Old boundary banks support a rich flora, including ancient woodland indicators such as Primrose *Primula vulgaris* and Hart's-tongue Fern *Phyllitis scolopendrium*. Parts of the woodland have been thinned to occasional Oak standards over sown Rye-grass *Lolium perenne*. Scots Pine is very occasional in parts of the wood.

Management recommendations

Much of the site is well-managed coppice with standards. Re-coppicing should be encouraged to maintain the diversity of the ground flora and wildlife value of the woodland. The conversion of woodland to occasional trees over improved pasture destroys the character and value of the site and should be discouraged.

West Sussex

Site Name: Ham Farm Wood

Site Ref: W05 Owner: Worthing Borough Council

District: Worthing Size (ha): 2.3

Parish: N/A Date: Identified May 1992

National Grid Ref: TQ112044 Author: Jill Barton

Habitat: Semi-natural woodland

Summary

The site represents the only area of ancient woodland within the built-up area of Worthing. Despite its proximity to housing it is remarkably undisturbed and is a valuable urban wildlife site.

Site description

The wood is surrounded by recently-built housing with an open area of parkland on its eastern boundary. The canopy is dominated by Oak, with Ash, Field Maple and English Elm. The shrub layer is mainly Hazel and Sweet Chestnut coppice, with some multi-stemmed Ash and Sycamore. Holly and Hawthorn are also present, and there are some very large old Field Maple coppice stools scattered. The ground flora is dominated by Bramble *Rubus fruticosus*, Bluebell *Hyacinthoides non-scripta* and Bracken *Pteridium aquilinum*, with Wood Sage *Teucrium scorodonia*, Honeysuckle *Lonicera periclymenum* and Male Fern *Dryopteris filix-mas*. A small, dry pond in the northeast part of the wood supports Tufted Hair-grass *Deschampsia caespitosa*, Yorkshire Fog *Holcus lanatus* and thistles *Cirsium* spp. The ponds in the southern part of the wood are surrounded by Crack Willow, Grey Willow, Goat Willow and Hazel coppice over lush grasses and Yellow Flag *Iris pseudacorus*.

The wood provides nesting sites and cover for a variety of birds.

The site is crossed by a surfaced path which is well used.

Management recommendations

Management appears to be sympathetic, and the amount of disturbance slight. Dead wood has been left in place, which provides a habitat for invertebrates and fungi in particular. The site would benefit from re-coppicing, to open up the canopy and encourage growth of the ground flora.

West Sussex

Site Name: Clapham Wood

Site Ref: Ar08 / W09 Owner: Private

District: Arun & Worthing **Size (ha):** 155.8

Parish: Clapham Date: Identified May 1992

National Grid Ref: TQ105070 Author: Graham Roberts

Habitat: Semi-natural woodland

Summary

Clapham Wood is an extensive, ancient semi-natural woodland on the undulating dip slope of the South Downs. The ground flora is rich and includes a number of interesting species. The wood was moderately affected by the storm of October 1987 and unfortunately several large blocks of woodland were subsequently cleared for pasture. Much of the wood is not managed but some areas are still coppiced.

Site description

Clapham Wood occupies a variety of soil types. On the hill top soils are mostly heavy clays with a fairly low lime content. This supports a woodland community consisting mostly of Oak standards over Hazel or Sweet Chestnut coppice. The ground flora is characterised by a carpet of Bluebells *Hyacinthoides non-scripta*, with patches of Wood Anemone *Anemone nemorosa*. Bramble *Rubus fruticosus* and Bracken *Pteridium aquilinum* are also present.

The chalky soils of the hill slopes carry a very different flora. Oak, Ash, Field Maple and Hazel are most frequent, with patches of Dogwood, Spindle, Wild Privet and Wayfaring Tree. The ground flora is particularly rich. Bluebell and Wood Anemone are still common but with swathes of Dog's Mercury *Mercurialis perennis* and patches of Sanicle *Sanicula europaea*, Primrose *Primula vulgaris*, Common Dog-violet *Viola riviniana*, Lesser Celandine *Ranunculus ficaria*, Wild Strawberry *Fragaria vesca*, Pignut *Conopodium majus*, Stinking Iris *Iris foetidissima*, Nettle-leaved Bellflower *Campanula trachelium* and Early-purple Orchid *Orchis mascula*.

The wood has many tracks and paths, some of which support interesting floras. Tuberous Comfrey *Symphytum tuberosum*, a very rare plant in West Sussex occurs along a track.

Clapham Wood has a moderately diverse range of breeding birds, including Goldcrest, Chiffchaff, Blackcap, Treecreeper, Marsh Tit, Nuthatch, Cuckoo, Great Spotted Woodpecker and Green Woodpecker.

Management recommendations

Much of the woodland would benefit from active management, particularly in the form of coppicing and selective thinning. Ride management, notably coppicing of the adjacent shrub layer, would enhance the site for both wildlife and Pheasants. Any tree planting should be with native broadleaved species such as Oak, Ash and Cherry.

KEY NATIONAL AND INTERNATIONAL SITE DESIGNATIONS

National Nature Reserve (NNR)

National Nature Reserves are statutory reserves established under the Wildlife and Countryside Act 1981. NNRs may be owned by the relevant national body (e.g. Natural England in England) or established by agreement. A few are owned and managed by non-statutory bodies, for example the Sussex Wildlife Trust. NNRs cover a selection of the most important sites for nature conservation in the UK. There are six NNRs in Sussex.

Special Area of Conservation (SAC)

Special Areas of Conservation are sites designated by Member States under the EC Habitats Directive. The aim is to establish a European network of important high quality conservation sites that will make a significant contribution to conserving habitats and species considered to be most in need of conservation at a European level. There are 12 SAC sites in Sussex.

Special Protection Area (SPA)

Special Protection Areas are designated under the EC Birds Directive, to conserve the habitat of certain rare or vulnerable birds and regularly occurring migratory birds. Any significant pollution or disturbance to or deterioration of these sites has to be avoided. All SPAs are also designated as SSSIs. There are six SPA sites in Sussex.

Ramsar

Ramsar sites are designated under the Convention on Wetlands of International Importance. Under the Convention, each government must select its best wetlands according to very clear criteria, which include: a wetland that regularly supports 20,000 or more waterbirds; a wetland that regularly supports 1% of the individuals in a population of one species or subspecies of waterbird. Wetlands are broadly defined to include marsh, fen, peatland and water. All designated Ramsar sites are also designated as SSSIs. There are four Ramsar sites in Sussex.

National Park

National Parks are beautiful, spectacular and often dramatic expanses of countryside. In the UK people live and work in the National Parks and the farms, villages and towns are protected along with the landscape and wildlife. They differ from Areas of Outstanding Natural Beauty (AONBs) in that each National Park has its own authority for planning control and other services.

The creation of the South Downs National Park (SDNP) was confirmed on 12th November 2009 and came into being on 1st April 2010.

Further information can be found on the SDNP Authority website.

Area of Outstanding Natural Beauty (AONB)

Areas of Outstanding Natural Beauty are areas of high scenic quality that have statutory protection in order to conserve and enhance the natural beauty of their landscapes. They differ from National Parks in their more limited opportunities for extensive outdoor recreation and by the way they are managed. AONBs are designated by Natural England under the Countryside and Rights of Way Act 2000.

There are two AONBs in Sussex covering approx. 114,000 hectares; Chichester Harbour and High Weald. Each has an associated body concerned with the area's conservation:

Chichester Harbour Conservancy www.conservancy.co.uk

High Weald AONB Unit www.highweald.org

Marine Conservation Zone (MCZ)

MCZs protect a range of nationally important marine wildlife, habitats, geology and geomorphology. In November 2013 27 MCZs were designated in English inshore and English and Welsh offshore waters in the first tranche of sites. Three of these sites were designated off Sussex; Kingmere, Beachy Head West and Pagham Harbour. More MCZs will be designated in future rounds or 'tranches', although it is uncertain how many.

Further information can be found on the JNCC website.

Local Nature Reserve (LNR)

Local Nature Reserves are for both people and wildlife. All district and county councils have powers to acquire, declare and manage LNRs. To qualify for LNR status, a site must be of importance for wildlife, geology, education or public enjoyment. Some are also SSSIs. There are 36 LNRs in Sussex.

Country Park

Country Parks were established as a result of the 1968 Countryside Act to provide a wide range of opportunities for recreation, health, education and improve the quality of life for local communities. Natural England recognises Country Parks as significant places that contribute to England's accessible natural green space. There are 11 Country Parks in Sussex, the details of which can be obtained from the local authorities.

Local Geological Site (LGS)

Previously known as Regionally Important Geological/Geomorphological Sites (RIGGS), LGS are non-statutory designations that have been identified by local geodiversity groups as being of importance. There are over 120 LGS in Sussex which have been assessed by the Sussex Geodiversity Partnership. The features identified as being important become a material consideration in any future development, and should be taken into account by the relevant local authority.

A selection of LGS with public access in Sussex can be viewed on the Sussex Geodiversity Partnership's website.

Marine Site of Nature Conservation Importance (MSNCI)

Marine Sites of Nature Conservation Importance are non-statutory sites identified on account of the special interest of their marine habitats, the fauna and flora, or for unusual geological and geomorphological features. They are an extension of the series of terrestrial SNCIs. The identification of these sites is to highlight their importance for marine wildlife and to emphasise the risks of certain operations damaging their interest. There are 23 MSNCIs off the Sussex coast.

Environmental Stewardship

Environmental Stewardship is an agri-environment scheme managed by Natural England that provides funding to farmers and other land managers to deliver effective environmental management.

There are four elements to Environmental Stewardship, three of which are relevant in Sussex:

Entry Level Stewardship (ELS) goes beyond the Single Payment Scheme requirement to maintain land in good agricultural and environmental condition.

Organic Entry Level Stewardship (OELS) is the organic strand of ELS. It is geared to organic and organic/conventional mixed farming systems and is open to all farmers not receiving Organic Farming Scheme aid.

Higher Level Stewardship (HLS) involves more complex types of management where agreements are tailored to local circumstances.

Further information can be found on the Natural England website.

Further information on many of the designations listed above can be found on the Natural England website.

West Sussex Local Geological Site (LGS) Survey 2010





Woods Mill, Henfield, West Sussex BN5 9SD. Tel: 01273 497521 Email: sxbrc@sussexwt.org.uk Website: www.sxbrc.org.uk

1. Site Information						
Site Name & LGS ID	Gasper Pit 17, Cote	Bottom, High	Salvingto	n TQ10/62		
Site Type	ED		Grid Refe	rence	TQ116065	
Date of Visit	21/04/2010		Local Autl	nority		
Surveyor	Peter Anderton		Landowne	er		
1:50,000 BGS Sheet no.	318/333		1:25,000 0	S Sheet no.	121	
LGS designation	Scientific X	Educationa	al X	Aesthe	tic	Historical
	•					

Interest Feature(s):

Disused chalk quarry exposing Culver Chalk Formation. This site is the only locality exposing higher zones than those exposed in TQ10/07 and TQ10/10. The primary exposure (A) at the south end of the quarry is about 20m long and 6m high. Other undocumented exposures, B & C, occur on the slopes at the northern head of the quarry.

Stratigraphy: upper Tarrant Chalk and lower Spetisbury Chalk members, Culver Chalk Formation, White Chalk Subgroup, late Cretaceous in age. Type locality for the Cote Bottom Flint layer.

Sedimentology: soft white chalk limestone with flint layers showing irregular and tabular flints. Deposited in relatively deep $(\rightarrow 100 \text{m})$ open marine environment.

Palaeontology: a special form of *Echinocorys* has been found here.

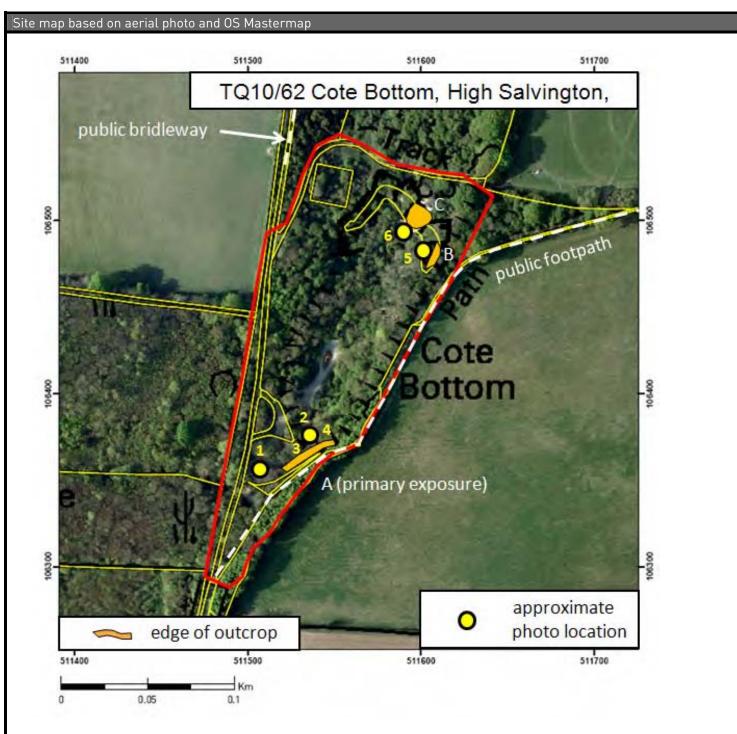
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г	i evious	manayement	allu	uates	(II all)	"

2. Prima	ary Factors					
	Is (are) the feature(s) exposed?	Υ	If No, can it (they) practically be re-exposed?			
	Is (are) the feature(s) being affected by the following factors?					
	Factor	Y/N	Comments			
3edrock feature	Vegetation	Υ	Trees cover most of the quarry slopes. The primary exposure is obscured by ivy and overhanging vegetation except for a central section which appears to have been cleared. Much of exposure B is covered by vegetation.			
X	Scree/Mass Movement	N				
dro	Flooding	N				
Be	Dumping/Landfill	N				
	Quarrying/Engineering Works	N				
	Development (housing/industrial)	N				
	Others (please define) –	N				
	Is (are) the feature(s) exposed?	N/A	If No, can it (they) practically be re-exposed?			
sit	Is (are) the feature(s) being affected by the	e follow	ing factors?			
ode	Vegetation (Trees or crop planting)					
ficial de feature	Agricultural practices (deep ploughing)					
ficia	Quarrying/Engineering Works					
Superficial deposit feature	Development (housing/industrial)					
nS	Others (please define) -					

	Is (are) the geomorphological feature(s) being allowed to evolve naturally?							
Ó	us (are) the feature(s) being affected by the following factors?							
atur	Vegetation	N						
r fea	Sea Defences N							
Geomorphology feature	River Management	N						
lohol	Ground Stabilisation (slopes/sand dunes)	N						
orp	Water level change	N						
Дое	Development (housing/industrial)	N						
	Others (please define) –	N						

	Factor	Y/N	Comments	
	Are any of the following causing difficulties in accessing the site?			
SS	Physical obstacles	Υ	Vegetation hinders access to the right (SW) side of the primary exposure A, but the central and left parts of the face are accessible. Trees and shrubs hinder access to exposure B.	
ассе	Landowner permissions	N		
Site access	Protected species/habitats	N		
	Other (please define) Parking	N	There is a local nature reserve to the northeast with a car park at the edge of High Salvington.	
	Are any of the following in an undesirable condition?			
d)	Interpretation Boards	N		
Furniture	Benches/Fences/Gates	N		
	Earthworks	N/A		
	Other (please define)			
Other features	Are there any other features of interest that should be considered?			
	Biodiversity	N		
	Historic Environment	N		

4. Site Status	
Overall, is the site in a desirable condition for use(s) of the feature(s) identified?	Yes / No / Uncertain
If Yes - what management is required (if any) for the feature(s) to maintain a desir	able condition:
Primary exposure A seems to have been partially cleared of vegetation to make the be kept clear on a continuing basis. Exposure B is on a slope amongst trees and wor slope exposing chalk upslope, convenient for fossil collecting, and scree downslope kept clear in future.	ald be difficult to manage. Exposure C is a bare
For the above, is the management: <u>Being undertaken</u> / Going to be undertaken / No If Uncertain or No - what management is required for the feature(s) to reach and r	<u> </u>
For the above, is the management: Being undertaken / Going to be undertaken / No.	ot going to be undertaken / Not possible
Are there any secondary factors that need further management?	Yes / <u>No</u> / Not applicable
Are there any secondary factors that heed farther management.	

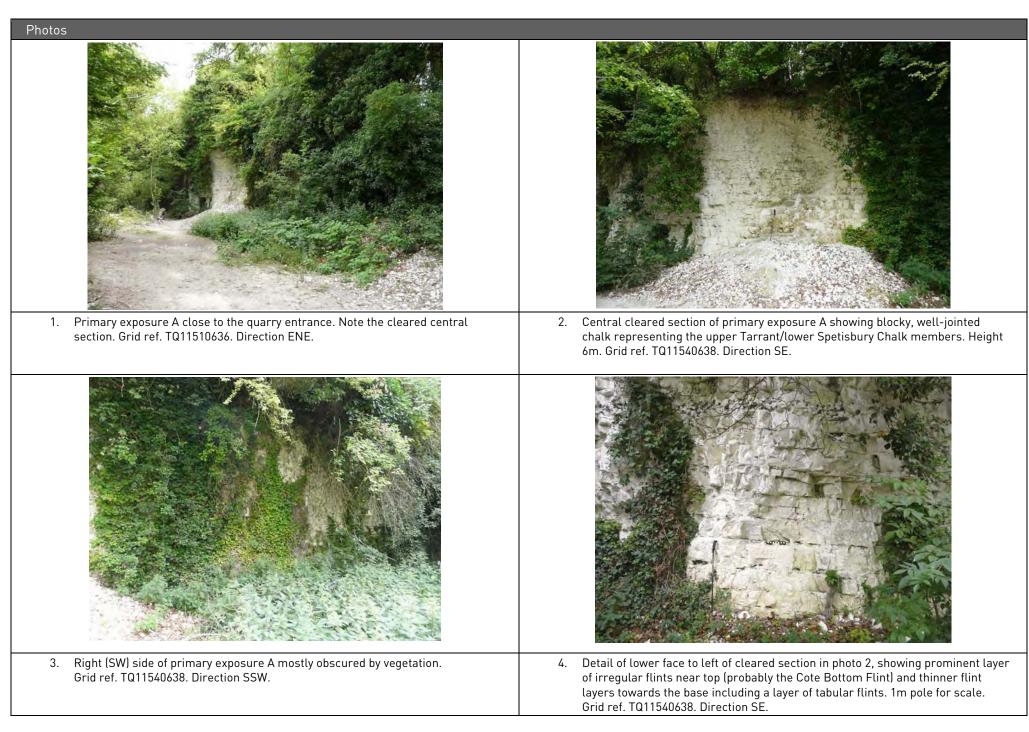


RGB Aerial Photography - ©GeoPerspectives, 2007. (WSCC).

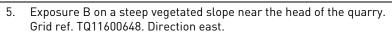
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Key to Map:











6. Exposure C is a bare chalk slope at the head of the quarry. Grid ref. TQ11590649. Direction NE.

ANCIENT & VETERAN TREES

Ancient trees form a vital part of our landscape, heritage and biodiversity. They are scattered through most parts of the UK landscape where they are found in exceptionally large numbers compared with north east Europe. Ancient trees can be most easily found in the vestiges of the once extensive Royal Hunting Forests, such as Ashdown Forest, and medieval parks. Others occur in historic parkland, landscaped gardens, woodland, wood pasture and ancient wooded commons. There are also small groups and individual trees scattered around housing estates, urban parks, village greens and churchyards. Some ancient trees are found on farmland, usually in hedgerows or old boundary features.

In Sussex, some of the largest recorded girths belong to: the Queen Elizabeth oak of 12.67m at Cowdray Park, a yew of 8.5m in Wilmington churchyard; a beech of 8.4m on Ashdown Forest; and a sweet chestnut of 7.2m at Herstmonceux Castle.

There are different definitions for mature trees, depending mainly on their stage of life:

Ancient trees. Biologically, aesthetically or culturally interesting because of their great age; In ancient or post-mature stage of life; Have a large girth relative to others of the same species.

Veteran trees. Usually in the second or mature stage of life; Have important wildlife and habitat features including hollowing or associated decay fungi, holes, wounds and large dead branches.

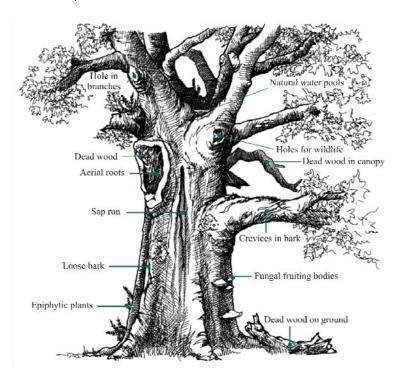
Notable trees. Locally important or of significance to the community; Specimen trees or considered to be the potential next generation of veteran trees.

Ancient tree ecology

Ancient trees are unique as a wildlife habitat because of the exceptionally species-rich communities associated with wood decay and the bare surfaces of trunks, bough and roots. Clusters of ancient trees are even more important because together they offer a wide range of niche homes for many specialist species in one small area.

Approximately 1,700 (6%) invertebrate species in the British Isles are dependent on decaying wood to complete their life cycles. Species associated with decaying wood include: rare click beetles such as the violet click beetle *Limoniscus violaceus*, the wasp mimic cranefly *Ctenophora flaveolata* and the oak longhorn beetle *Rhagium mordax*. The blackheaded cardinal beetle *Pyrochroa coccinea* is an insect associated with veteran trees and old growth woodland.

Old trees with splits, cracks, loose bark, holes and crevices are especially attractive to bats and in particular to woodland specialists such as the rare Barbastelle and Bechstein's bat.



Characteristic features of a veteran tree

Source: Veteren Trees: A guide to good management. Natural England, 2000.

The Ancient Tree Hunt

The Ancient Tree Hunt is a nationwide search to map all of the old trees in the UK in order to plan for their active conservation. This project, led by the Woodland Trust in partnership with the Ancient Tree Forum and Tree Register of the British Isles, was launched in 2007.

Most of the trees recorded can be viewed on their website: www.ancient-tree-hunt.org.uk

ANCIENT WOODLAND

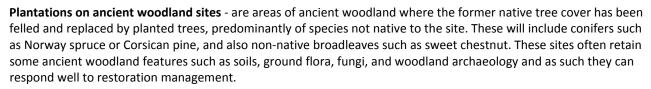
Ancient woodland is defined by Natural England as an area that has had a continuous woodland cover since at least 1600 AD.

Sussex is one of the most wooded parts of lowland Britain with ancient woodland covering approximately 39,000ha (10%) of the county. Bluebell woods associated with coppicing, open wood pasture associated with deer parks and the small Wealden woods in ghyll valleys are a key part of Sussex's distinctive and varied landscape.

The habitat can be split into two broad categories:-

Ancient semi-natural woodland - is composed predominantly of trees and shrubs native to the site that do not obviously originate from planting. However, woodlands with small planting of trees native to the site would still be included in this category. The stands may

have been managed by coppicing or pollarding in the past or the tree and shrub layer may have grown up by natural regeneration.



The importance of ancient woodland

Ancient woodland is of prime ecological and landscape importance, providing a vital part of a rich and diverse countryside. In particular, ancient woodland:

- is exceptionally rich in wildlife, and supports many rare and threatened species
- may contain surviving descendants and features from the original natural forests
- acts as reservoirs from which wildlife can spread into new woodlands
- has valuable soils due to their undisturbed nature
- is an integral part of England's historic landscapes and the biological and visual functioning of a landscape
- contains a wealth of features of historical and archaeological importance little altered by modern cultivation or disturbance

Ancient Woodland Inventory

The Ancient Woodland Inventory was set up in 1981 by the Nature Conservancy Council (now Natural England). It originally only included sites over two hectares in size. Advances in digital mapping techniques mean it is now possible to map woodlands under two hectares with greater accuracy. This has led to a revision of the Ancient Woodland Inventory within the South East. The surveys for the revision of the inventory for Sussex were completed in 2010 and have been adopted by Natural England. However, the inventory will always be classed as "provisional" because it is reviewed and updated as new information comes to light.

Further information about the Ancient Woodland Inventory can be found on the Natural England website.

(Illustration courtesy of Natural England.)



LOWLAND CALCAREOUS GRASSLAND

Lowland calcareous grasslands develop on shallow lime-rich soils generally overlying limestone rocks - in Sussex it occurs exclusively on chalk.

Why is it important?

- Chalk grassland can support over 50 species of flowering plant per square metre, including a number of nationally scarce species.
- Many species of rare invertebrates are found including hoverflies, molluscs and moths.
- Rare assemblages of mosses and lichens can be found on some chalk grasslands.
- The grasslands and associated patches of scrub provide breeding and feeding habitat for many birds including scarce species such as stone curlew.



Round-headed rampion

Lowland calcareous grassland in Sussex

The South Downs represents one of the major areas of chalk grassland in the UK. It is estimated that the habitat now covers only around 3% of the South Downs, where it is predominantly confined to steeper slopes. It continues to support a rich diversity of animals and plants including many rare species.

What are the threats?

- Agricultural intensification by use of fertilisers, liming, reseeding and ploughing.
- Lack of grazing stock results in dominance of coarse grasses and scrub, and a decline in overall botanical diversity.
- Recreation effects including disturbance of wildlife, compaction of soil, trampling and increased nutrients in soil. High public access can also cause conflicts where grazing animals are present.
- Isolation and fragmentation of sites reduces dispersal opportunities making species more susceptible to extinction.
- Losses can result from development including redevelopment of abandoned chalk quarries which can develop good quality grassland.

Some associated species

- Linnet Carduelis cannabina
- Whitethroat Sylvia communis
- Adonis blue Polyommatus bellargus
- Glow-worm Lampyris noctiluca
- Round-headed rampion *Phyteuma orbiculare*
- Yellow-wort Blackstonia perfoliata

(Illustration courtesy of Natural England.)

TRADITIONAL ORCHARDS

Traditional orchards are areas of land on which a range of fruit and nut trees are cultivated that are managed in a low intensity way. Permanent grassland beneath the trees was traditionally grazed by livestock.

Why are they important?

- The mosaic of habitats such as hedgerows, dead wood and fruit trees make traditional orchards important for a wide range of species.
- Traditional orchards provide a the conditions needed for many bryophytes and lichens.
- Holes and crevices in old trees provide habitat for bats and nest sites for birds such as redstart and bullfinch.
- Dead and decaying wood makes traditional orchards hugely important for invertebrates, lichens and fungi.



Traditional orchards in Sussex

The traditional orchards inventory* lists over 900 sites in Sussex covering an area of approximately 300 hectares. It is estimated that around half of these orchards are currently in a poor condition.

What are the threats?

- Changes in farming policy and markets has led to a decline in income from traditional orchard produce.
- A decline in the skills and knowledge to manage traditional orchards can lead to neglect.
- Loss of orchards can occur as fruit trees dying of old age are not replaced.
- Lack of protection under the current planning system.

Some associated species

- Lesser spotted woodpecker Picoides minor
- Noctule Nyctalus noctula
- Lichen running-spider Philodromus margaritatus
- Noble chafer Gnorimus nobilis
- Mistletoe Viscum album
- A lichen Ramonia chrysophaea

* The Traditional Orchard Inventory for England

The traditional orchard data used in Sussex Biodiversity Record Centre reports are the result of a project run by the People's Trust for Endangered Species (PTES) on behalf of Natural England. The resulting inventory is based on combining exisiting survey data with aerial photograph interpretation, together with ground-truthing survey work by local volunteers. The inventory is provisional, and is still being refined and updated as new data becomes available. The project was completed in March 2011.

For the purpose of the inventory, traditional orchards are defined as sites where at least five fruit trees must be present with no more than 20m between their crown edges.

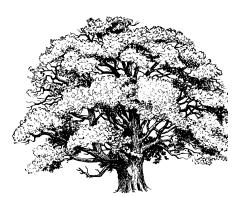
Further information

Orchard Network: www.orchardnetwork.org.uk

WOOD-PASTURE & PARKLAND

Many parks were established in medieval times for aesthetic reasons, to provide grazing for farm animals or deer and to provide wood from pollarded trees. In later centuries, new landscaped parks were created from these medieval parks or by enclosing ordinary farmland. Wood-pasture and parkland is therefore the result of a distinctive, historic land-use system, and represents a vegetation structure rather than being a particular plant community.

Typically this structure consists of veteran trees with wide, spreading crowns growing in a matrix of grazed grassland or heathland. It is a habitat of cultural and historical significance and can also be of great ecological importance due to the wide range of species it supports. For these reasons, and due the threats facing the habitat, it is a UK Biodiversity Action Plan (BAP) habitat.



Pedunculate Oak

Current status and distribution

There are no reliable statistics on the extent of this habitat in the UK, but it is most common in southern Britain. Sussex is particularly rich in wood-pasture and parkland with several large old deer parks, such as Petworth Park and Parham Park.

Ecological significance

Wood-pasture and parkland is important for wildlife for a number of reasons:

- The mosaic of habitats together with the presence of veteran trees provides the conditions needed by certain species for every stage of their life cycle.
- There is often a continuity of old trees over hundreds of years, or even in some cases back to the post ice-age 'wildwood'. The trees have often been pollarded; this management technique extends their life and creates rot holes and crevices which are used by bats, hole-nesting birds and invertebrates.
- Sussex has the majority of the UK's mature English Elms following the loss of millions to Dutch Elm Disease.
- Rotten wood within ancient tree trunks supports saproxylic invertebrates (those that rely on dead wood for all or
 part of their life cycle) and are amongst the most threatened group of species in Europe. One such species is the
 click beetle *Lacon querceus*, which develops in dry red-rotten oak wood in veteran trunks and fallen boughs. The
 Stag Beetle is another saproxylic beetle often associated with pasture parkland.
- The old tree trunks also support unique communities of lichens, mosses and liverworts which depend on the stability of the surface provided by veteran trees. Two BAP Priority Species of lichen found on old trees include *Bacidia incompata* and *Enterographa sorediata*.

Threats facing the habitat include:

- Isolation and fragmentation of the remaining parklands.
- Inappropriate grazing resulting in the loss of plant diversity and habitat structure.
- Agricultural intensification including reseeding, ploughing and use of fertilisers.
- Neglect and loss of veteran trees, and over-tidying of deadwood.

(Illustrations courtesy of Natural England.)



Stag Beetle

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The Sussex Biodiversity Record Centre is managed by the Sussex Wildlife Trust as a partnership project. A list of our current funding partners can be found on our website: www.sxbrc.org.uk/about/partners

