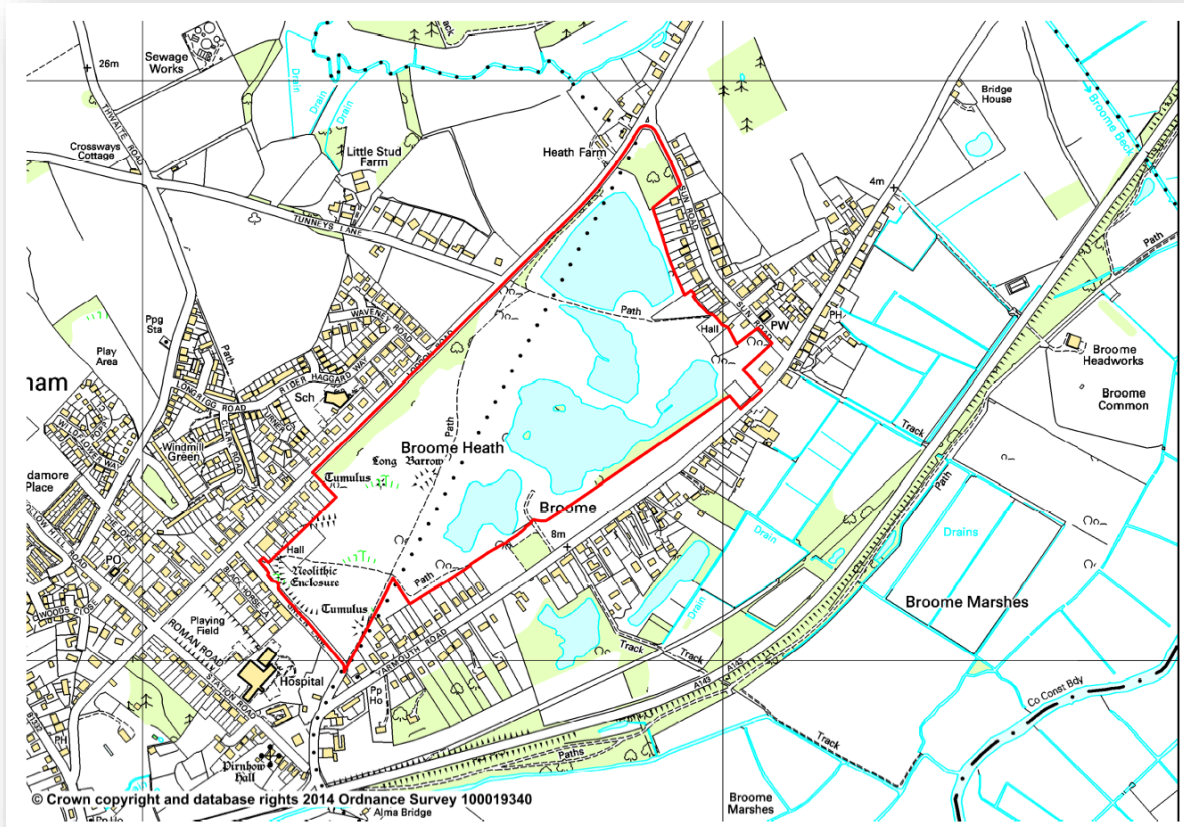


**Site Name:** Broome Heath  
**Grid reference:** TM 346914  
**District:** South Norfolk

**Map showing CWS boundary:**



A large County Wildlife Site (CWS 130) on freely draining slightly acid sandy soils, Broome Heath is a lovely open area with a mosaic of habitats, including acid grassland, heath, scrub, open water, woodland, bare sand and gravel. The site supports a diversity of wildlife including nightingale (*Luscinia megarhynchos*), slow-worm (*Anguis fragilis*) and green hairstreak (*Callophrys rubi*) in 2019.

There are several historic features on Broome Heath, including tumuli and the traces of a Neolithic settlement, several of which are Scheduled Ancient Monuments. A geological SSSI occurs towards the north-east of the site, by one of the modern fishing lakes.

A rich human history has created the site as it is today, and helped form its importance as a site of wildlife diversity.

The dry sandy soils of Broome Heath made it ideal for past mineral extraction, and where the site slopes steeply away to the south and east, there are now the fishing lakes. The first Ordnance Survey maps from the late 19<sup>th</sup> century, shows Broome Heath as rough pasture and heather with scattered gorse. One gravel pit is shown in the south-east (presumably a precursor to the lakes). The tumuli are shown in the south-west.

The Broome Heath Pit geological Site of Special Scientific Interest is in the north-east corner of the site. It contains an exposure of an old river terrace deposited during the Wolstonian glacial stage.

The heath has open access and is well-used for walking and recreation.

The north-west boundary of the site is dominated by mature scrub, which has developed into secondary woodland at the boundary. The wood is composed of oak (*Quercus robur*), silver birch (*Betula pendula*), bracken (*Pteridium aquilinum*), gorse (*Ulex europaeus*) and bramble (*Rubus fruticosus* agg.). Ragwort (*Senecio jacobaea*) is occasional across the site.

The central area of the site is largely open; in places there are stands of various ages of heather (*Calluna vulgaris*) and bell heather (*Erica cinerea*), but in most places the sward is short and heavily rabbit grazed. Bracken is coming to dominate some areas, such as on the tumuli.

The tight, short sward of the grassland supports sheep's sorrel (*Rumex acetosella*), early hair grass (*Aira praecox*), little mouse ear (*Cerastium semidecandrum*), common storksbill (*Erodium cicutarium*), buckshorn plantain (*Plantago coronopus*), shepherd's cress (*Teesdalia nudicaulis*), suffocated clover (*Trifolium suffocatum*), common cudweed (*Filago vulgaris*), cat's ear (*Hypochaeris radicata*), common birdsfoot trefoil (*Lotus corniculatus*), field woodrush (*Luzula campestris*), spring vetch (*Vicia lathyroides*), changing forget-me-not (*Myosotis discolor*), early forget-me-not (*Myosotis ramosissima*), birdsfoot (*Ornithopus perpusillus*), slender parsley piert (*Aphanes australis*), lesser chickweed (*Stellaria pallida*), heath dog violet (*Viola canina*) and squirrel-tailed fescue (*Vulpia bromoides*).

The mesotrophic lakes support some marginal vegetation, being well-used for fishing. In places the damper soils support yellow iris (*Iris pseudacorus*), hard rush (*Juncus inflexus*) and gipsywort (*Lycopus europeus*). The lakes also support little in the way of aquatic vegetation. The banks of the lakes support scrub and trees, especially on some of the steeper slopes; this includes sycamore (*Acer pseudoplatanu*), silver birch, broom (*Cytisus scoparius*) and goat willow (*Salix caprea*).

The south of the site has recently undergone an alteration in its boundaries.





Map showing the target note reference numbers:



Key:

**NS** – Broome Heath Enclosure – Neolithic Settlement Site (NHER 10602)

**RB** – Earthwork of a Bronze Age Round Barrow (NHER 10624)

**CS** – World War Two aircraft crash site (NHER 31964)

**BB** – Bronze Age Barrow earthwork (NHER 10611)

**LB** – Broome Heath Neolithic Long Barrow (NHER 10599)

**TA** – World War One and World War Two training area (NHER 50236)

**SSSI** – Broome Heath Pit, Geological Site of Special Scientific Interest

**RR** – Possible line of a Roman road (NHER 54190)

### Target notes to accompany map:

1. Large, open area of dry acid grassland. The tight, short sward supports species such as sheep's sorrel, early hair grass, little mouse ear (*Cerastium fontanum*), common storksbill, buckshorn plantain, shepherd's cress, suffocated clover, common cudweed, cat's ear, common birdsfoot trefoil, field woodrush, spring vetch, changing forget-me-not, early forget-me-not, birdsfoot, slender parsley piert, lesser chickweed, heath dog violet and squirrel-tailed fescue. Historic gravel extraction has resulted in deep dry pits and undulating ground which are excellent insect habitats.

The open grassland is bordered by scrub and trees increasing the site's value for sheltering reptiles such as slow worms. The scrub and woodland boundaries are vital for nesting nightingales.

2. Dry heath area supporting stands of ling and bell heather, of varying ages. Bracken dominates in places, including over the tumuli. Gorse occurs, most notably in the west.

The tumuli across this area date from the Neolithic period and Bronze Age, and include a long barrow, round barrows and an enclosure site, which are all Scheduled Ancient Monuments.

3. Woodland boundary belt, mainly of oak and birch. The wooded belt is quite young, with rare, mature trees such as a few old oaks and large, old coppiced silver birches. Ground flora is limited to ground ivy (*Glechoma hederacea*), lords and ladies (*Arum maculatum*), hybrid bluebells (*Hyacinthoides x massartiana*), wood forget-me-not (*Myosotis sylvatica*) with increasing bramble and bracken in places.

This area has evidence of past dumping of garden and building rubbish.

4. Series of deep, fenced fishing lakes. The lakes are well-used and support little aquatic and marginal plant species, but species here include lesser pond sedge (*Carex acutiformis*), great willowherb (*Epilobium hirsutum*), flag iris (*Iris pseudacorus*), soft rush (*Juncus effusus*), gypsywort (*Lycopus europaeus*), watermint (*Mentha aquatica*), reedmace (*Typha latifolius*) and willow (*Salix* sp.). A wooded area dominated by sycamore occurs to the west of the south-west fishing lake. The lake in the north-east is the site of the Broome Heath Pit geological SSSI.

5. The north-east corner of the site is a small open area of acid grassland bounded by trees to the west, and by the road to the north and east. This area supports a mix of acid grassland and typical roadside species, alongside garden escapees, such as tansy (*Tanacetum vulgare*), Lady's bedstraw (*Galium verum*), Oregon grape (*Mahonia aquifolium*), rough chervil (*Chaerophyllum temulum*), agrimony (*Agrimonia eupatorium*), creeping cinquefoil (*Potentilla repens*), knotgrass (*Polygonum aviculare* agg.), field bindweed (*Convolvulus arvensis*), barren brome (*Anisantha sterilis*), perennial ryegrass (*Lolium perenne*) and cocksfoot (*Dactylis glomerata*).

A dead slow worm was found to the west, under the trees by the roadside.

**Other notable species:**

*Include non-plant species eg turtle dove/barn owl/dingy skipper*

Nightingale (*Luscinia megarhynchos*)

Slow worm (*Anguis fragilis*)

Small copper (*Lycaena phlaeas*)

Green hairstreak (*Callophrys rubi*)

Hedgehog (*Erinaceus europaeus*)

Cuckoo (*Cuculus canorus*)

Goldcrest (*Regulus regulus*)

Treecreeper (*Certhia familiaris*)

**Adjacent habitats/potential buffer zones & linkage to other sites:**

*Is the site next to another CWS/SSSI? Is there similar habitat adjacent or is the site surrounded by agricultural land?*

Broome Heath Pit geological SSSI is in the north-east corner of the site.

The site is surrounded by housing, with agricultural land beyond to the north, east and west.

Grazing marshes lie to the south.

**Is the site in positive conservation management?** Non-intervention at present.

**(Please give details if necessary).**

*Please give details of management if possible eg is it grazed/cut for hay/coppiced/no management? Is the site in a stewardship scheme/got a management plan etc*

Through the Wildlife in Common project Norfolk Wildlife Trust ran a series of community practical task sessions.

**Brief management proposals:**

*Eg should the site be grazed/cut & raked off/coppiced/thinned etc*

Annual bracken cut and clear.

Areas of gorse scrub to be cut back regularly.

Cut and clear bracken on Scheduled Ancient Monuments

Management statement produced by Norfolk Wildlife Trust in 2019.

**Has a site condition assessment form been completed for this site?** Yes

**If not how would you rate the overall site condition?**

Compartment number	Favourable/ no issues. Score 1	Favourable/ some issues Score 2	Recovering Score 3	Unfavourable – no change Score 4	Unfavourable - declining Score 5 (poor management)	Neglected Score 6 (no management)	Part destroyed/ Score 7	Destroyed Score 8
<b>Overall Condition</b>								

## PLANT LIST

County Wildlife Site name &amp; reference number: Broome Heath, CWS 130

Date of survey: 01/05/2019

Surveyor: A. Copping, Caroline Spinks, Sarah Butler &amp; 8 members of Lowestoft Field Club

Scientific name	Common name	Comments/Location
<i>Acer pseudoplatanus</i>	Sycamore	
<i>Achillea millefolium</i>	Yarrow	
<i>Aegopodium podagraria</i>	Ground elder	
<i>Aesculus hippocastanum</i>	Horse chestnut	
<i>Agrimonia eupatorium</i>	Agrimony	
<i>Aira praecox</i>	Early hair-grass	
<i>Alliaria petiolata</i>	Garlic mustard	
<i>Anagallis arvensis</i>	Scarlet pimpernel	
<i>Anchusa arvensis</i>	Bugloss	
<i>Anisantha sterilis</i>	Barren brome	
<i>Anthoxanthemum odoratum</i>	Sweet vernal grass	
<i>Anthriscus sylvestris</i>	Cow parsley	
<i>Aphanes australis</i>	Slender parsley piert	
<i>Arctium minus</i>	Lesser burdock	
<i>Arum maculatum</i>	Lords and ladies	
<i>Bellis perennis</i>	Daisy	
<i>Betula pendula</i>	Silver birch	
<i>Buddleia davidii</i>	Buddleia	
<i>Calluna vulgaris</i>	Ling	
<i>Cardamine hirsuta</i>	Hairy bittercress	
<i>Carduus nutans</i>	Musk thistle	
<i>Carex acutiformis</i>	Lesser pond sedge	
<i>Cerastium fontanum</i>	Little mouse ear	
<i>Cerastium glomeratum</i>	Sticky mouse ear	
<i>Cerastium semidecandrum</i>	Little mouse ear	
<i>Chaerophyllum temulum</i>	Rough chervil	
<i>Chamerion angustifolium</i>	Rosebay willowherb	
<i>Chelidonium majus</i>	Greater celandine	
<i>Chenopodium album</i>	Fat hen	
<i>Cirsium arvense</i>	Creeping thistle	
<i>Cirsium vulgare</i>	Spear thistle	
<i>Claytonia perfoliata</i>	Spring beauty	
<i>Conium maculatum</i>	Hemlock	
<i>Convolvulus arvensis</i>	Field bindweed	
<i>Crataegus monogyna</i>	Hawthorn	
<i>Cytisus scoparius</i>	Broom	
<i>Dactylis glomerata</i>	Cocksfoot	
<i>Epilobium hirsutum</i>	Great willowherb	
<i>Erica cinerea</i>	Bell heather	
<i>Erodium cicutarium</i>	Common storksbill	
<i>Euonymus europaeus</i>	Spindle	
<i>Euphorbia lathyris</i>	Caper spurge	
<i>Festuca ovina</i> agg.	Sheep's fescue	
<i>Ficaria verna</i>	Lesser celandine	
<i>Filago vulgaris</i>	Common cudweed	
<i>Galium aparine</i>	Cleavers	

## WILDLIFE IN COMMON

Scientific name	Common name	Comments/Location
<i>Galium saxatile</i>	Heath bedstraw	
<i>Galium verum</i>	Lady's bedstraw	
<i>Geranium molle</i>	Dovesfoot cranesbill	
<i>Geranium pusillum</i>	Small-flowered cranesbill	
<i>Glechoma hederacea</i>	Ground ivy	
<i>Hedera helix</i>	Ivy	
<i>Holcus lanatus</i>	Yorkshire fog	
<i>Hyacinthoides x massartiana</i>	Hybrid bluebell	
<i>Hypericum perforatum</i>	Perforate St John's wort	
<i>Hypochaeris radicata</i>	Cat's ear	
<i>Ilex aquifolium</i>	Holly	
<i>Iris pseudacorus</i>	Flag iris	
<i>Juncus effusus</i>	Soft rush	
<i>Juncus inflexus</i>	Hard rush	
<i>Lactuca virosa</i>	Great lettuce	
<i>Lamium album</i>	White dead nettle	
<i>Lamium purpureum</i>	Red dead nettle	
<i>Lapsana communis</i>	Nipplewort	
<i>Leontodon autumnalis</i>	Autumn hawkbit	
<i>Ligustrum vulgare</i>	Common privet	
<i>Lolium perenne</i>	Perennial ryegrass	
<i>Lonicera periclymenum</i>	Honeysuckle	
<i>Lotus corniculatus</i>	Birdsfoot trefoil	
<i>Luzula campestris</i>	Field woodrush	
<i>Lycopus europaeus</i>	Gypsywort	
<i>Mahonia aquifolium</i>	Oregon grape	
<i>Mentha aquatica</i>	Water mint	
<i>Mercurialis annua</i>	Annual mercury	
<i>Montia fontana</i>	Blinks	
<i>Myosotis arvensis</i>	Field forget-me-not	
<i>Myosotis discolor</i>	Changing forget-me-not	
<i>Myosotis ramosissima</i>	Early forget-me-not	
<i>Myosotis sylvatica</i>	Woodland forget-me-not	
<i>Narcissus spp</i>	Daffodil	
<i>Nassella tenuissima</i>	Argentine needle-grass / Mexican feather grass	Ornamental grass. Aka <i>Stipa tenuissima</i> .
<i>Nuphar lutea</i>	Yellow water lily	
<i>Odontites vernus</i>	Red bartsia	
<i>Ornithopus perpusillus</i>	Birdsfoot	
<i>Pentaglottis sempervirens</i>	Green alkanet	
<i>Pilosella officinarum</i>	Mouse ear hawkweed	
<i>Pinus nigra</i>	Black pine	
<i>Plantago coronopus</i>	Stagshorn plantain	
<i>Plantago major</i>	Greater plantain	
<i>Poa annua</i>	Annual meadow grass	
<i>Polygonum aviculare</i> agg.	Knotgrass	
<i>Polypodium sp.</i>	Polypody sp.	
<i>Polytrichum sp.</i>	Haircap moss sp.	
<i>Populus tremula</i>	Aspen	
<i>Potentilla repens</i>	Creeping cinquefoil	
<i>Prunus spinosa</i>	Blackthorn	
<i>Pseudoscleropodium purum</i>	Neat feather moss	



## WILDLIFE IN COMMON

Scientific name	Common name	Comments/Location
<i>Pteridium aquilinum</i>	Bracken	
<i>Quercus robur</i>	Oak	
<i>Ranunculus bulbosus</i>	Bulbous buttercup	
<i>Ranunculus repens</i>	Creeping buttercup	
<i>Reseda luteola</i>	Weld	
<i>Rosa canina</i> agg.	Dog rose	
<i>Rubus fruticosus</i> agg.	Bramble	
<i>Rumex acetosella</i>	Sheep's sorrel	
<i>Rumex obtusifolius</i>	Broad-leaved dock	
<i>Sagina procumbens</i>	Procumbent pearlwort	
<i>Salix caprea</i>	Goat willow	
<i>Salix cinerea</i>	Grey willow	
<i>Sambucus nigra</i>	Elder	
<i>Saxifraga granulata</i>	Meadow saxifrage	
<i>Scrophularia</i> sp.	Figwort sp.	
<i>Sedum album</i>	White stonecrop	
<i>Sedum telephium</i>	Orpine	
<i>Senecio jacobaea</i>	Common ragwort	
<i>Senecio vulgaris</i>	Groundsel	
<i>Silene latifolia</i>	White campion	
<i>Silene vulgaris</i>	Bladder campion	
<i>Smyrniolus olusatrum</i>	Alexanders	
<i>Solanum dulcamara</i>	Bittersweet	
<i>Sonchus asper</i>	Prickly sowthistle	
<i>Stellaria media</i>	Chickweed	
<i>Stellaria pallida</i>	Lesser chickweed	
<i>Tanacetum vulgare</i>	Tansy	
<i>Taraxacum</i> agg.	Dandelion	
<i>Teesdalia nudicaulis</i>	Shepherd's cress	
<i>Trifolium dubium</i>	Lesser trefoil	
<i>Trifolium micranthum</i>	Slender trefoil	
<i>Trifolium repens</i>	White clover	
<i>Trifolium suffocatum</i>	Suffocated clover	
<i>Typha latifolius</i>	Reedmace	
<i>Ulex europaeus</i>	Gorse	
<i>Urtica dioica</i>	Nettle	
<i>Urtica urens</i>	Small nettle	
<i>Valerianella locusta</i>	Lamb's lettuce	
<i>Verbascum thapsus</i>	Great mullein	
<i>Veronica arvensis</i>	Wall speedwell	
<i>Veronica chamaedrys</i>	Germander speedwell	
<i>Veronica hederifolia</i> subsp. <i>hederifolia</i>	Speedwell, Ivy-leaved	[pale blue flowers with blue anthers]
<i>Veronica hederifolia</i> subsp. <i>lucorum</i>	Speedwell, Ivy-leaved	[whitish/pale lilac flowers & whitish/pale blue anthers]
<i>Vicia lathyroides</i>	Spring vetch	
<i>Vicia sativa</i> subsp. <i>segetalis</i>	Vetch, Common	[pods usually hairless & brown to black]
<i>Viola canina</i>	Heath dog violet	
<i>Vulpia bromoides</i>	Squirrel-tailed fescue	

**FUNGI LIST****Surveyor:** Caroline Spinks

Date	Common Name	Scientific Name	Comments
	Fly agaric	<i>Amanita muscaria</i>	
	Milkcap sp.	<i>Lactarius sp.</i>	
	Acer tar spot	<i>Rhytisma acerinum</i>	
	Turkey tail sp.	<i>Trametes sp.</i>	

**Fauna Records****Surveyor:** Caroline Spinks**MAMMAL & REPTILE LIST**

Date	Common Name	Scientific Name	Comments
11/07/18	Slow worm	<i>Anguis fragilis</i>	Dead In 2019 6 individuals found in total
14-16/07/19	Barbastelle bat	<i>Barbastella barbastellus</i>	
9-11/07/19	Serotine bat	<i>Eptesicus serotinus</i>	
02/07/18	Hedgehog	<i>Erinaceus europaeus</i>	Droppings
19/05/18	Rabbit	<i>Oryctolagus cuniculus</i>	
9-11/07/19	Daubenton's bat	<i>Myotis daubentonii</i>	
9-11/07/19	Natterer's bat	<i>Myotis nattereri</i>	
14-16/07/19	Leisler's bat	<i>Nyctalus leisleri</i>	
14-16/07/19	Noctule bat	<i>Nyctalus noctula</i>	
14-16/07/19	Nathusius' pipistrelle	<i>Pipistrellus nathusii</i>	
9-11/07/19	Common pipistrelle	<i>Pipistrellus pipistrellus</i>	
9-11/07/19	Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>	
14-16/07/19	Brown long-eared bat	<i>Plecotus auritus</i>	
9-11/07/19	Grey squirrel	<i>Sciurus carolinensis</i>	
18/06/18	Pygmy shrew	<i>Sorex minutus</i>	
18/06/18	Mole	<i>Talpa europaea</i>	
10/07/18	Red fox	<i>Vulpes vulpes</i>	Droppings

**BIRD LIST**

Date	Common Name	Scientific Name	Comments
01/06/19	Sparrowhawk	<i>Accipiter nisus</i>	
01/06/19	Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	
16/05/19	Long-tailed Tit	<i>Aegithalos Caudatus</i>	Juveniles present
29/09/18	Kingfisher	<i>Alcedo atthis</i>	
16/05/19	Mallard	<i>Anas platyrhynchos</i>	
29/09/18	Greylag Goose	<i>Anser anser</i>	
16/05/19	Swift	<i>Apus apus</i>	
29/09/18	Grey Heron	<i>Ardea cinerea</i>	
29/09/18	Little Owl	<i>Athene noctua</i>	
16/05/19	Tufted Duck	<i>Aythya fuligula</i>	

WILDLIFE IN COMMON

Date	Common Name	Scientific Name	Comments
01/06/19	Canada Goose	<i>Branta canadensis</i>	Juveniles present
May-Sept 2018	Barnacle Goose	<i>Branta Leucopsis</i>	
01/06/19	Buzzard	<i>Buteo buteo</i>	
01/06/19	Black-headed Gull	<i>Chroicocephalus Ridibundus</i>	
16/05/19	Goldfinch	<i>Carduelis carduelis</i>	
16/05/19	Greenfinch	<i>Carduelis chloris</i>	
16/05/19	Treecreeper	<i>Certhia Familiaris</i>	Juveniles present
04/11/18	Feral pigeon	<i>Columba livia domestica</i>	
16/05/19	Stock Dove	<i>Columba oenas</i>	
16/05/19	Woodpigeon	<i>Columba palumbus</i>	
16/05/19	Carrion Crow	<i>Corvus corone</i>	
16/05/19	Rook	<i>Corvus frugilegus</i>	
16/05/19	Jackdaw	<i>Corvus monedula</i>	
May-Sept 2018	Cuckoo	<i>Cuculus canorus</i>	
16/05/19	Blue Tit	<i>Cyanistes caeruleus</i>	Juveniles present
16/05/19	Mute Swan	<i>Cygnus olor</i>	
May-Sept 2019	House martin	<i>Delichon urbicum</i>	
16/05/19	House Sparrow	<i>Passer domesticus</i>	
04/11/18	Magpie	<i>Pica pica</i>	
16/05/19	Great Spotted Woodpecker	<i>Picus major</i>	At nest but female predated Juveniles present
16/05/19	Robin	<i>Erithacus rubecula</i>	Juveniles present
May-Sept 2018	Red Kite	<i>Falco milvus</i>	
16/05/19	Hobby	<i>Falco subbuteo</i>	
16/05/19	Kestrel	<i>Falco tinnunculus</i>	
16/05/19	Chaffinch	<i>Fringilla coelebs</i>	
16/05/19	Coot	<i>Fulica atra</i>	Juveniles present
16/05/19	Moorhen	<i>Gallinula chloropus</i>	
16/05/19	European Jay	<i>Garrulus glandarius</i>	
15/06/19	Oystercatcher	<i>Haematopus Ostralegus</i>	
16/05/19	Barn Swallow	<i>Hirundo rustica</i>	
16/05/19	Herring Gull	<i>Larus argentatus</i>	
04/11/18	Common Gull	<i>Larus canus</i>	
16/05/19	Lesser Black-backed Gull	<i>Larus fuscus</i>	
16/05/19	Linnet	<i>Linaria cannabina</i>	Juveniles present
08/08/19	Nightingale	<i>Luscinia megarhynchos</i>	
16/05/19	Pied Wagtail	<i>Motacilla alba</i>	
16/05/19	Great Tit	<i>Parus major</i>	Juveniles present
16/05/19	Coal Tit	<i>Pariparus ater</i>	
16/05/19	Cormorant	<i>Phalacrocorax Carbo</i>	
16/05/19	Chiffchaff	<i>Phylloscopus collybita</i>	
16/05/19	Willow Warbler	<i>Phylloscopus trochilus</i>	
16/05/19	Green Woodpecker	<i>Picus Viridis</i>	
16/05/19	Great Crested Grebe	<i>Podiceps cristatus</i>	Juveniles present
16/05/19	Marsh Tit	<i>Poecile palustris</i>	
16/05/19	Dunnock	<i>Prunella modularis</i>	

**WILDLIFE IN COMMON**

Date	Common Name	Scientific Name	Comments
01/06/19	Bullfinch	<i>Pyrrhula pyrrhula</i>	
16/05/19	Goldcrest	<i>Regulus regulus</i>	
16/05/19	Sand Martin	<i>Riparia riparia</i>	
16/05/19	Collared Dove	<i>Streptopelia decaocto</i>	
16/05/19	Starling	<i>Sturnus vulgaris</i>	Juveniles present
16/05/19	Blackcap	<i>Sylvia atricapilla</i>	
16/05/19	Garden Warbler	<i>Sylvia borin</i>	
16/05/19	Whitethroat	<i>Sylvia communis</i>	
16/05/19	Lesser Whitethroat	<i>Sylvia curruca</i>	
29/09/18	Shelduck	<i>Tadorna tadorna</i>	
16/05/19	Wren	<i>Troglodytes troglodytes</i>	Juveniles present
16/05/19	Blackbird	<i>Turdus merula</i>	Juveniles present
16/05/19	Song Thrush	<i>Turdus philomelos</i>	
May-Sept 2018	Mistle Thrush	<i>Turdus viscivorus</i>	

**BUTTERFLY LIST**

Date	Common Name	Scientific Name	Comments
19/05/18	Orange Tip	<i>Anthocharis cardamines</i>	
19/05/18	Green Hairstreak	<i>Callophrys rubi</i>	
19/05/18	Holly Blue	<i>Celastrina argiolus</i>	
18/06/18	Small Heath	<i>Coenonympha pamphilus</i>	
19/05/18	Small Copper	<i>Lycaena phlaeas</i>	
18/06/18	Meadow Brown	<i>Maniola jurtina</i>	
18/06/18	Speckled Wood	<i>Pararge aegeri</i>	
19/05/18	Large White	<i>Pieris brassicae</i>	
29/09/18	Green veined white	<i>Pieris napi</i>	
01/06/19	Common Blue	<i>Polyommatus icarus</i>	
15/08/18	Gatekeeper	<i>Pyronia tithonus</i>	
15/06/19	Little grebe	<i>Tachybaptus ruficollis</i>	
14/06/19	Red admiral	<i>Vanessa atalanta</i>	
14/06/19	Painted Lady	<i>Vanessa cardui</i>	

**BUMBLEBEE LIST**

Date	Common Name	Scientific Name	Comments
15/08/18	Honey Bee	<i>Apis mellifera</i>	
18/06/18	Tree Bee	<i>Bombus hypnorum</i>	
15/08/18	Heath Bumblebee	<i>Bombus jonellus</i>	
15/08/18	Red-tailed Bumblebee	<i>Bombus lapidarius</i>	
15/08/18	White Tailed Bumblebee	<i>Bombus lucorum</i>	
15/08/18	Common Carder Bee	<i>Bombus pascuorum</i>	
15/08/18	Buff Tailed Bumblebee	<i>Bombus terrestris</i>	
15/06/19	Vestal Cuckoo Bee	<i>Bombus vestalis</i>	



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**DRAGONFLY AND DAMSELFLY LIST**

Date	Common Name	Scientific Name	Comments
29/09/18	Migrant hawker	<i>Aeshna mixta</i>	
15/08/18	Emperor Dragonfly	<i>Anax imperator</i>	
	Banded demoiselle	<i>Calopteryx splendens</i>	
19/05/18	Blue-tailed Damselfly	<i>Ischnura elegans</i>	
14/06/19	Scarce Chaser	<i>Libellula fulva</i>	
18/06/18	Black Tailed Skimmer	<i>Orthetrum cancellatum</i>	
29/09/18	Common Darer	<i>Sympetrum striolatum</i>	

**OTHER INVERTEBRATES**

Date	Common Name	Scientific Name	Comments
14/06/19	Leaf Blotch Miner Moth	<i>Acrocercops brongniardella</i>	
19/05/18	Labyrinth Spider	<i>Agelena labyrinthica</i>	
18/06/18	Leaf Miner	<i>Agromyza alnibetulae</i>	
18/06/18	Leaf Miner	<i>Agromyza johannae</i>	First for Norfolk recorded by Graham Moates confirmed Andy Musgrove
19/05/18	Oak Marble Gall	<i>Andricus kollari</i>	
29/09/18	Knopper Gall	<i>Andricus quercuscalicis</i>	
04/11/18	Pill bug	<i>Armadillidium vulgare</i>	
18/06/18	Leaf Miner	<i>Aulagromyza tremulae</i>	First for Norfolk recorded by Graham Moates confirmed Andy Musgrove
15/08/18	Sand Wasp	<i>Bembicini sp.</i>	
18/06/18	Sheetweb Spider	<i>Cambridgea foliata</i>	
14/06/19	Black and Red Frog hopper	<i>Cercopis vulnerata</i>	
18/06/18	Leaf Miner	<i>Cerodontha iraeos</i>	
29/09/18	Green Shield Bug	<i>Chinavia hilaris</i>	
18/06/18	Field Grasshopper	<i>Chorthippus brunneus</i>	
18/06/18	Meadow Grasshopper	<i>Chorthippus parallelus</i>	
18/06/18	Leaf Miner	<i>Chromatomyia periclymeni</i>	First for Norfolk recorded by Graham Moates confirmed

# WILDLIFE IN COMMON

			Andy Musgrove
	Cuckoo wasp	<i>Chrysis ignita</i>	
29/09/18	7 spot Ladybird	<i>Coccinella septempunctata</i>	
29/09/18	Springtail	<i>Collembola sp.</i>	
29/09/18	Dock Bug	<i>Coreus marginatus</i>	
29/09/18	Hairy Shield Bug	<i>Dolycoris baccarum</i>	
29/09/18	Parent Shield Bug	<i>Elasmucha grisea</i>	
29/09/18	Birch Shield Bug	<i>Elasmotethus interstinctus</i>	
18/06/18	Bog hoverfly	<i>Eristalis cryptarum</i>	
29/09/18	Common earwig	<i>Forficula auricularia</i>	
18/06/19	Sawfly	<i>Fenusella nana</i>	First record in the county after a 100 year gap – confirmed by Graham Moates
29/09/18	Common Pond Skater	<i>Gerris lacustris</i>	
29/09/18	Harlequin Ladybird	<i>Harmonia axyridis</i>	
29/09/18	Birch Catkin Bug	<i>Kleidocerys reseda</i>	
29/09/18	Centipede	<i>Lithobius forficatus</i>	
14/06/19	Sawfly	<i>Macrophya montana</i>	
18/06/18	Mottled Grasshopper	<i>Myrmeleotettix maculatus</i>	
18/06/18	Spotted Crane fly	<i>Nephrotoma appendiculata</i>	
29/09/18	Lacewing	<i>Neuroptera sp.</i>	
29/09/18	Spangle Gall	<i>Neuropterus quercusbaccarum</i>	
18/06/18	Thick-thighed flower beetle	<i>Oedemera nobilis</i>	
18/06/18	Fly	<i>Pegomya solennis</i>	
15/06/19	Brown Silver Line moth	<i>Petrophora chlorosata</i>	
15/08/18	Red-legged Shieldbug	<i>Pentatoma rufipes</i>	
29/09/18	Common Harvestman	<i>Phalangium opilio</i>	
06/08/18	Beewolf	<i>Philanthus triangulum</i>	
18/06/18	Dark Bush Cricket	<i>Pholidoptera griseoaptera</i>	
18/06/18	Gorse Shieldbug	<i>Piezodorus lituratus</i>	
18/06/18	Sawfly – Bean Gall	<i>Pontania proxima</i>	
14/06/19	Chequered Click Beetle	<i>Prosternon tessellatum</i>	
18/06/18	Hornet Moth	<i>Sesia apiformis</i>	
29/09/18	Snake millipede	<i>Tachypodoiulus niger</i>	
18/06/18	Common Groundhopper	<i>Tetrix undulata</i>	
19/05/18	Hornet	<i>Vespa crabro</i>	
29/09/18	Common Wasp	<i>Vespula vulgaris</i>	
14/06/19	Great pied Hoverfly	<i>Volucella pellucens</i>	

**Site Images** (Lucy Seely)



Main area of heather in west of site, with short acid grassland, wooded area beyond and encroaching bracken (2018)



Tight, acid grassland sward over sandy and gravelly soil, with well-walked paths into oak and birch trees (2018)



**Site Images** (Caroline Spinks)



Woodland boundary belt, mainly of oak and birch



Acid grassland with patches of heather





Fishing Lake

Bat Survey



Bat Survey results for TM3491 from 3 survey nights

Below you can find a summary of the main findings from your bat survey visits. Further information for individual visits can be found on the following pages.

The total number of recordings per night:



Bat species detected:

Our provisional analysis of the recordings detected the following species. The numbers relate to the number of bat passes rather than the number of individual bats.

Species	Total number of passes (all nights)
Barbastelle	17
Brown long-eared bat	37
Common pipistrelle	812
Daubenton's bat	16
Leisler's bat	17
Nathusius' pipistrelle	2
Natterer's bat	6
Noctule	42
Serotine	61
Soprano pipistrelle	188

Below are details of recordings that could not be assigned with confidence to a single species.

Species	Total number of passes (all nights)
Leisler's bat or Noctule	8
Myotis species	12
Pipistrelle species	153

Note: Pipistrelle species = this refers to a recording of a bat in the genus *Pipistrellus* that cannot be identified to species. In the UK, possible species include Common Pipistrelle, Soprano Pipistrelle and Nathusius' Pipistrelle.