

Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Tiddington

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
Local Wildlife Site			
SP15Li18f River Avon	352.12	SP2686	Water courses and water bodies
LWS potential site			
SP25H1 The Croft Preparatory School	2.28	SP2305	Woodland & scrub
SP25C2 Rayford Meadow	2.60	SP2145	Woodland & scrub

Key Target Notes

- SP25h2 and SP25h2 – Mixed habitats at The Croft Preparatory School
- SP25d29 – Caravan Park

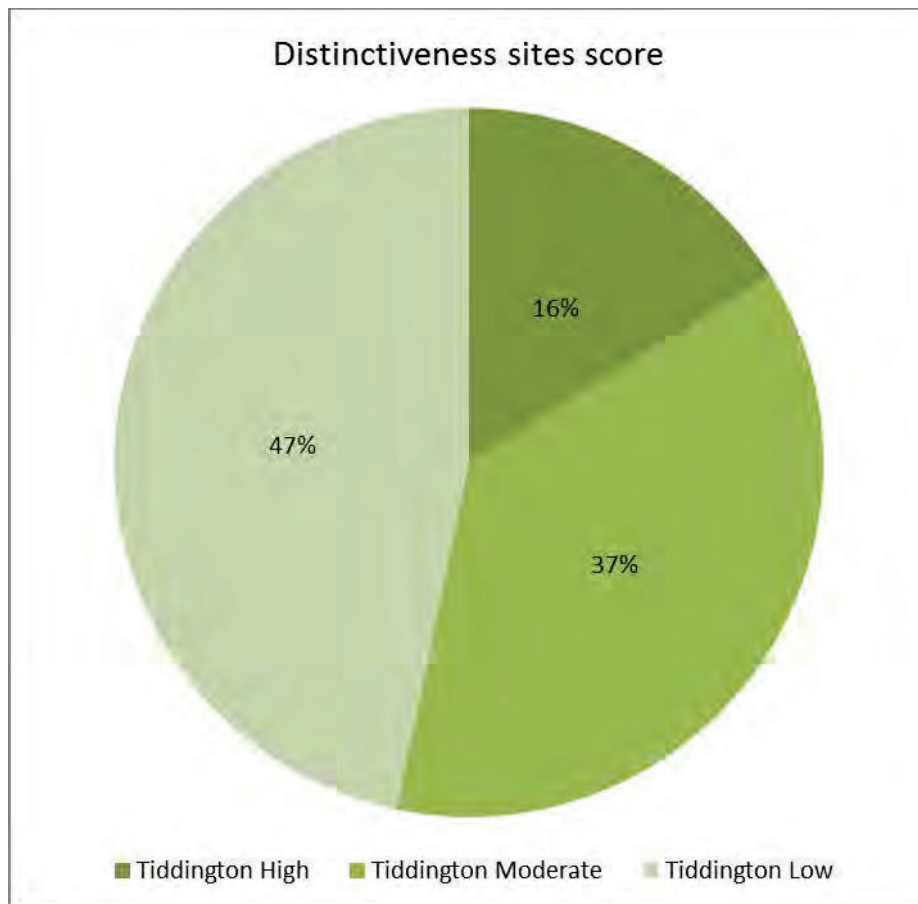
Habitat Descriptions

Tiddington has a low percentage score for high distinctiveness. Many of the grassland sites have been classified as amenity grassland, for example the caravan park along the River Avon a former potential local wildlife site at Rayford Meadow, golf course and the playing fields. These account for a high percentage of low distinctiveness for the settlement

The broad-leaved plantation sites are mostly associated with the golf course.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	3	0.56	9
B22 Semi-improved neutral grassland	6	1.65	18
F1 Swamp	1	0.06	3
G1 Standing water	3	0.29	9
G2 Running water	1	14.50	3
Sub Total	14	17.06	42
Moderate			
A112 Broad-leaved plantation	37	13.42	74
B6 Semi-improved neutral grassland	8	10.39	16
J112 Allotments	3	2.49	6

Sub Total	48	26.29	96
Low			
A132 Mixed plantation	3	1.50	3
B4 Improved grassland	27	66.49	27
C31 Tall ruderal	5	1.56	10
J11 Arable	17	119.84	17
J12 Amenity grassland	67	80.72	134
J13 Ephemeral/short perennial	2	0.89	4
Sub Total	121	270.99	195
Totals	183	314.34	333



Geological Description

Tiddington has considerable potential for its Triassic geology (Mercia Mudstone Group), and overlying Quaternary deposits. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

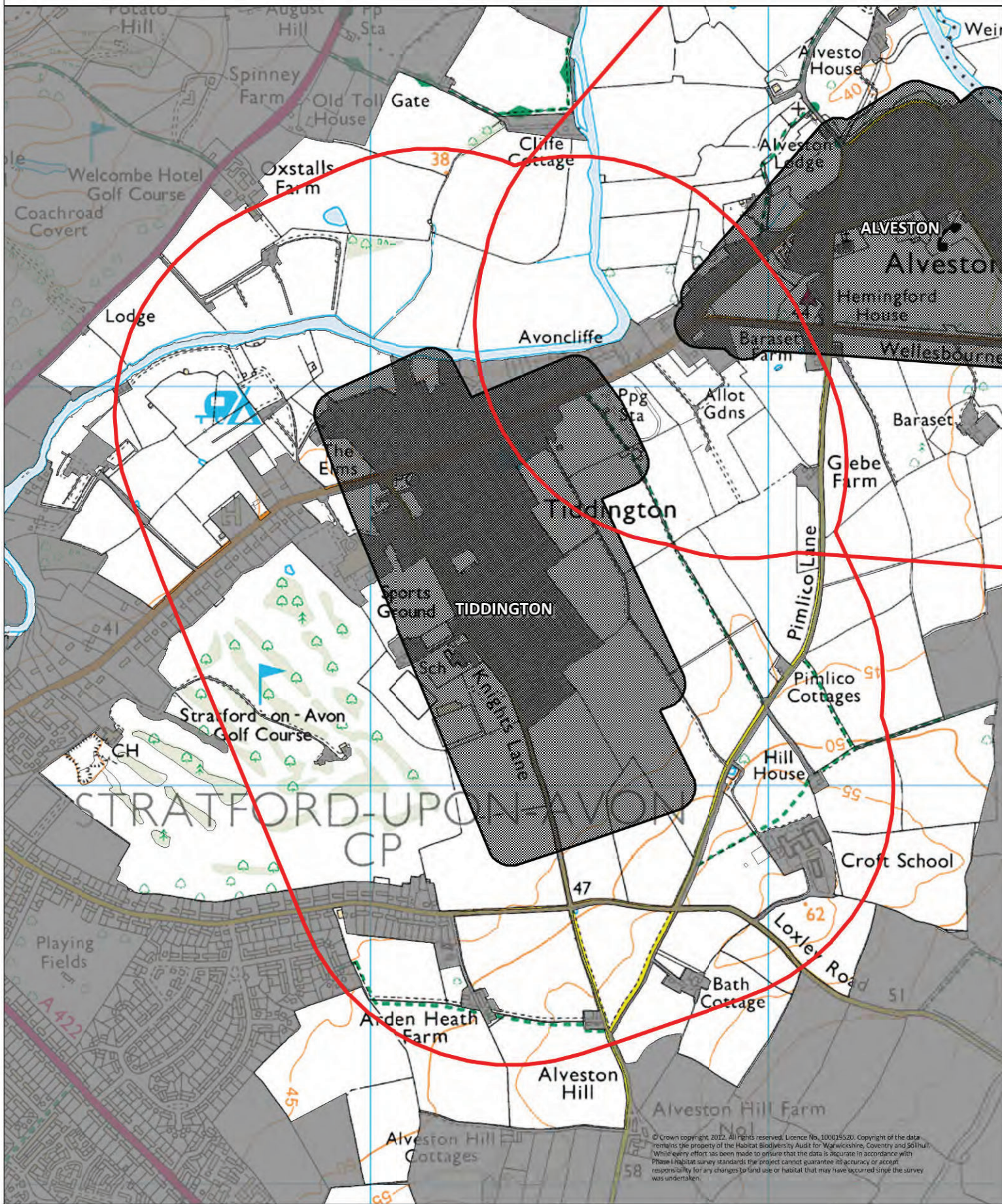
Grass snake, hedgehog and the bat species of common and soprano pipistrelles, whiskered and noctule have been recorded in the settlement area. In the wider area there are additional records of badger, brown hare, otter with additional bat records of natterers, lesser horseshoe, daubentons, leislars and serotine plus a butterfly record of white-letter hairstreak, . There are also rare plants including cat-mint, blunt-flowered rush, barn owl, adder and slow-worm in the wider area.

Recommendations for Further Survey

- The Croft Preparatory School mixed habitats



TIDDINGTON



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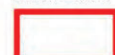
3.4 SQKM

Settlements



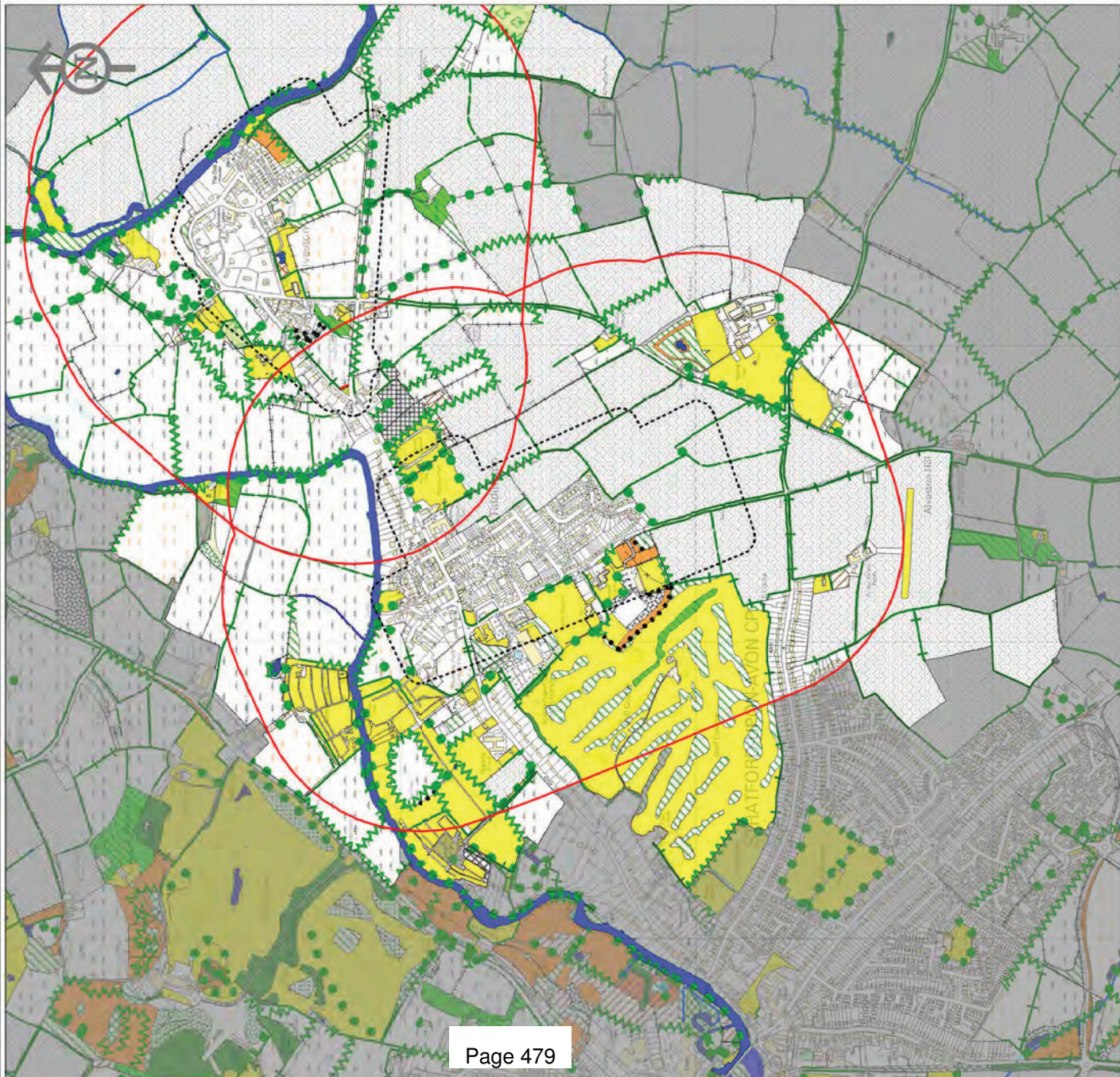
Settlements

500m Buffer



500m Buffer

TIDDINGTON



PHASE 1 HABITAT SURVEY

Habitat Types

	A111 (Broad-leaved semi-natural woodland)
	A112 (Broad-leaved plantation)
	A121 (Coniferous semi-natural woodland)
	A122 (Coniferous plantation)
	A131 (Mixed semi-natural woodland)
	A132 (Mixed plantation)
	A21 (Dense/continuous scrub)
	A22 (Scattered scrub)
	A31 (Broad-leaved parkland/scattered trees)
	A32 (Coniferous parkland/scattered trees)
	A4 (Recently felled woodland)
	A5 (Orchard)
	B11 (Unimproved acidic grassland)
	B12 (Semi-improved acidic grassland)
	B21 (Unimproved neutral grassland)
	B22 (Semi-improved neutral grassland)
	B31 (Unimproved calcareous grassland)
	B32 (Semi-improved calcareous grassland)
	B4 (Improved grassland)
	B5 (Marsh/marshy grassland)
	B6 (Poor semi-improved grassland)
	C11 (Continuous bracken)
	C31 (Tall ruderal)

	C32 (Non-ruderal)
	D5 (Dry heath/acid grassland mosaic)
	E11 (Sphagnum Bog)
	E21 (Acid/neutral flush)
	E31 (Valley mire)
	E32 (Basin mire)
	F1 (Swamp)
	F22 (Inundation vegetation)
	G1 (Standing water)
	G2 (Running water)
	I21 (Quarry)
	I22 (Spill)
	I23 (Mire)
	I24 (Refuse tip)
	J11 (Arable)
	J112 (Allotments)
	J113 (Self-seed)
	J12 (Amenity grassland)
	J13 (Ephemeral/short perennial)
	J14 (Introduced shrub)
	J36 (Buildings)
	J4 (Bare ground)

Linear Features

	A21 (Linear Scrub)
	A3 (Linear Trees)
	G1 (Standing Water)
	G2 (Running Water)
	I1 (Inland Cliff)
	J21 (Intact Hedge)
	J211 (Native Species Rich Intact Hedge)
	J22 (Defunct Hedge)

	J23 (Hedge with Trees)
	J231 (Native Species Rich Hedge with Trees)
	J24 (Fence)
	J25 (Wall)
	J26 (Dry Ditch)
	J27 (Boundary Removed)
	J28 (Earth Bank)

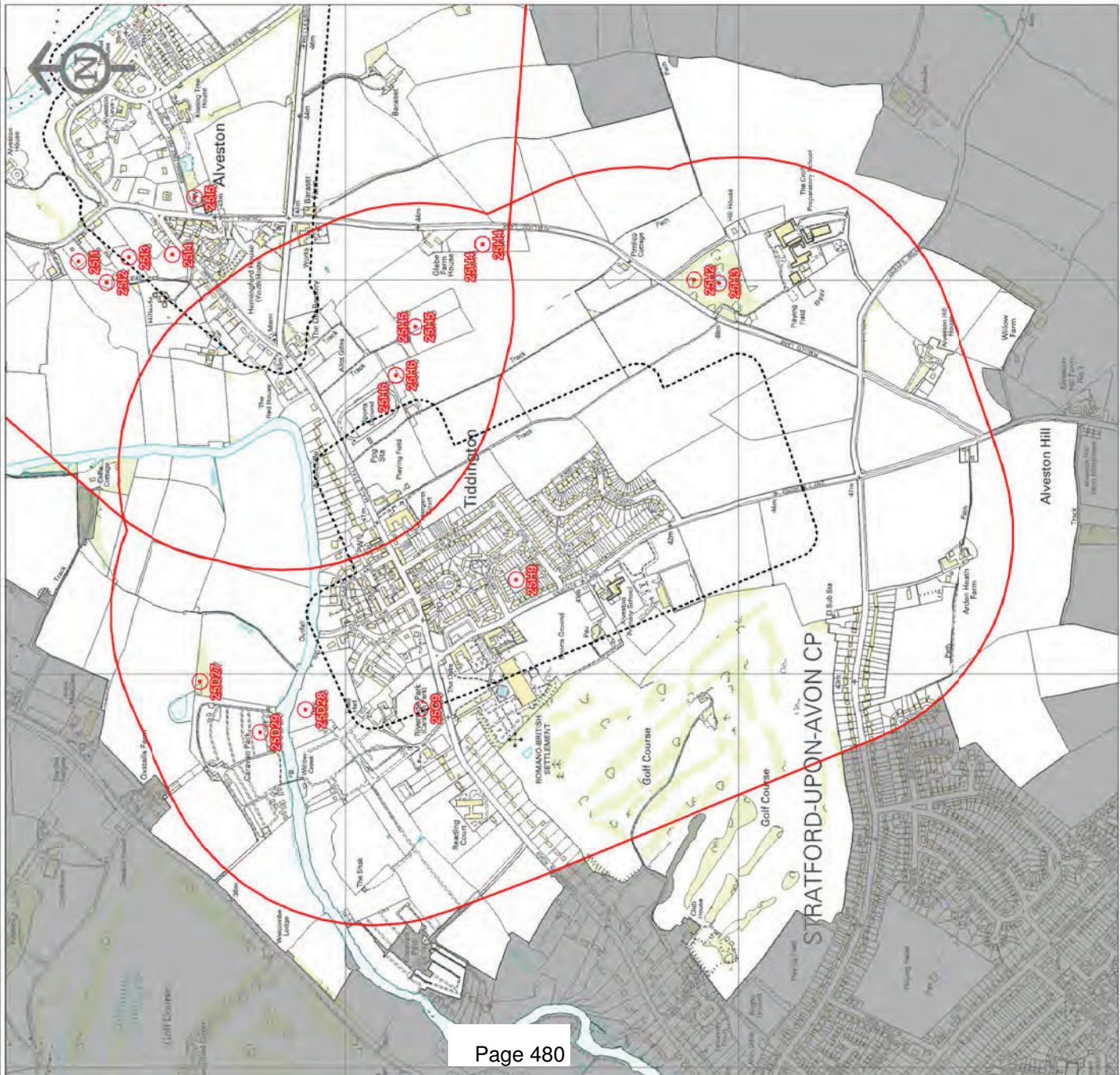
STUDY AREA

	500m buffer
	Settlements

OS DEVELOPED LAND USE AREA

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TIDDINGTON



TARGET NOTES

Point

OS DEVELOPED LAND USE AREA

Settlements

STUDY AREA

500m buffer

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Tiddington

- SP25C9 Poor semi improved meadow. Does not appear to be grazed but may have a regular hay cut. Grasses include red fescue, soft broom, false oat grass, cocksfoot, meadow foxtail. Forbs include ribwort plantain, meadow buttercup, cranesbill species, common vetch, yarrow, cow parsley, common mouse-ear, occasional nettle and dock. Hedgerow to the west and south of meadow contains rowan, ash, poplar, hawthorn, elder, ivy, field maple, dog rose, elm, bittersweet, blackthorn and yew.
- sp25d27 Ash; oak and sycamore plantation which is open to sheep grazing and has been for some time. The strip of woodland is in severe decline and lacks an understorey; the ground flora is mainly grasses and many of the trees are diseased or dead. UPDATED 22/05/2012 MF. Area remains as described. Unable to access, viewed with binoculars. Some poplar and ash regeneration. Hawthorn is establishing in the area.
- sp25d28 Poor semi-improved grassland dominated by *Dactylis glomerata* and *Arrhenatherum elatius* with abundant nettle. Includes some very mature oak. Access restricted and therefore full assessment hampered. UPDATED 22/05/2012 MF. Area is a mixed habitat of poor semi improved meadow and mixed plantation. Dominant grass appears to be meadow foxtail and at time of visit, there was abundant meadow buttercup and cow parsley. Tree species include oak, willow and conifer.
- sp25d29 Caravan park which occurs either side of the River Avon. UPDATED 22/05/2012 MF. Remains a caravan park with amenity grassland and plantation of willow, alder, copper beech, horse chestnut, cherry, silver birch, laburnum, poplar, rowan, conifer and ash. Staff report area subject to flooding.
- sp25h2 New broad-leaved plantation of cherry; rowan; willow and field maple over rough semi- improved grassland dominated by *Arrhenatherum elatius* with *Dactylis glomerata* and *Holcus lanatus* and occasional *Poa trivialis* and *Festuca rubra*. There are scattered ragwort; broad-leaved dock and creeping thistle with ribwort plantain and occasional meadow buttercup. Some regularly mown paths contain frequent autumn hawkbit and dove's-foot crane's-bill. UPDATED 20/05/2012 MF. Remains broadleaved plantation. Area appears to be used for Forest School Activities by Croft Preparatory School. Additional broadleaved species include ash, alder, elder, silver birch, horse chestnut, hazel, oak, lime, dogwood. An understorey of hawthorn, elder, bramble, ash saplings establishing. Ground flora includes wood avens, nettle, cranesbill species, cowslip, forget-me-not, vetch species, agrimony. The rides are regularly mown, however some narrow strips have been left for wild flowers and in these areas St. johns wort is abundant. There is a small established pond in the centre of the plantation with emergent vegetation of yellow iris, common reed, marsh marigold, mint, gypsywort, bogbean, water lily, bittersweet and bulrush. Pond likely to be good for amphibians and dragonfly. Potential LWS, recommend full survey.
- sp25h3 Shallow eutrophic pond with occasional (planted) white water-lily with small stands of yellow flag iris and *Schoenoplectus lacustris*. UPDATED 21/05/2012 MF. See #SP25H2 for full description.
- sp25h4 Fenced area of semi-improved grassland with frequent *Arrhenatherum elatius*; *Dactylis glomerata*; *Holcus lanatus* and *Poa trivialis* and occasional *Agrostis stolonifera* and *Festuca rubra*. Forbs are limited to frequent ribwort plantain; creeping cinquefoil; yarrow and occasional mallow; broad-leaved dock and field bindweed. Visited on 16/9/9 by MF. Include following forbs: common mouse-ear, curved dock, common nettle, meadow crane's-bill, creeping thistle, common sorrel, common mallow, daisy, creeping buttercup, bulbous buttercup. UPDATED 20/05/2012 MF. Grassland remains as described. Dominant grass is meadow foxtail. Forbs appear to be less diverse than previously recorded but unable to access, viewed from roadside.

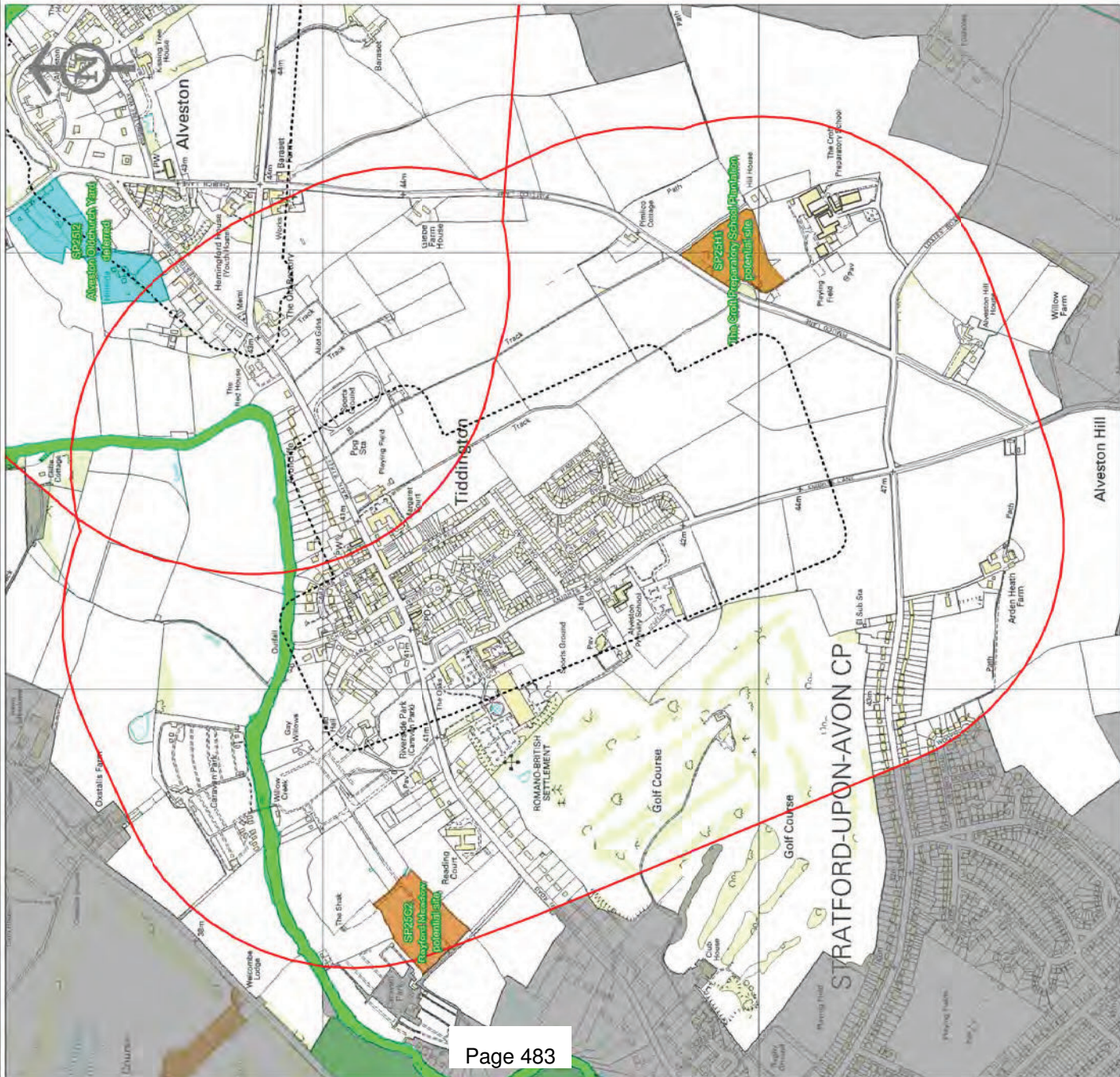


Target Notes

sp25h5	Area of semi-improved grassland with frequent <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and <i>Poa trivialis</i> and occasional <i>Agrostis stolonifera</i> and <i>Festuca rubra</i> . Forbs are limited to frequent ribwort plantain; creeping cinquefoil; yarrow and occasional mallow; broad-leaved dock and field bindweed. UPDATED 21/05/2012 MF. No access- private land. Meadows in this area are horse grazed and have characteristics of improved grassland with nettle patches. However there are occasional Meadow Buttercup and Common Vetch.
sp25h6	Neglected area to the rear of a dilapidated farm building. Contains a mosaic of dense bramble; nettle and <i>Dactylis glomerata</i> dominated grassland. Area includes a very extensive and active badger sett. Visited on 16/09/09 by MF. Poor semi-improved grassland, neglected meadow. A footpath runs through it to a new sports ground. Forbs present include red clover, curled dock, mugwort, autumn hawkbit, cat's-ear, ribwort plantain, scentless mayweed, creeping thistle. UPDATED 21/05/2012 MF. Area now used to store rubble and wood. Ground is disturbed and tall ruderal vegetation dominates. Occasional white campion, meadow foxtail and red fescue.
SP25H9	Mix of tall ruderal species and poor semi improved neutral grassland, with meadow buttercup and cowslip. Birds seen by home owners include buzzard, sparrow hawk, woodpecker, sparrows, long-tailed tits. Pipestrelle bats and hedgehogs seen. Former gravel pit with steep banks. Bramble encroaching. Partially filled in on the north side.



TIDDINGTON



SITES OF SPECIAL SCIENTIFIC INTEREST



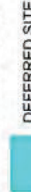
SSSI

ANCIENT WOODLAND

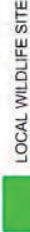


Ancient Woodland

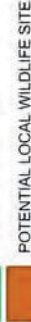
LOCAL WILDLIFE SITES



DEFERRED SITE



LOCAL WILDLIFE SITE



POTENTIAL LOCAL WILDLIFE SITE

LOCAL NATURE RESERVE



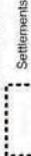
LNR

WARWICKSHIRE WILDLIFE TRUST RESERVES



WWT Reserve

OS DEVELOPED LAND USE AREA



Settlements

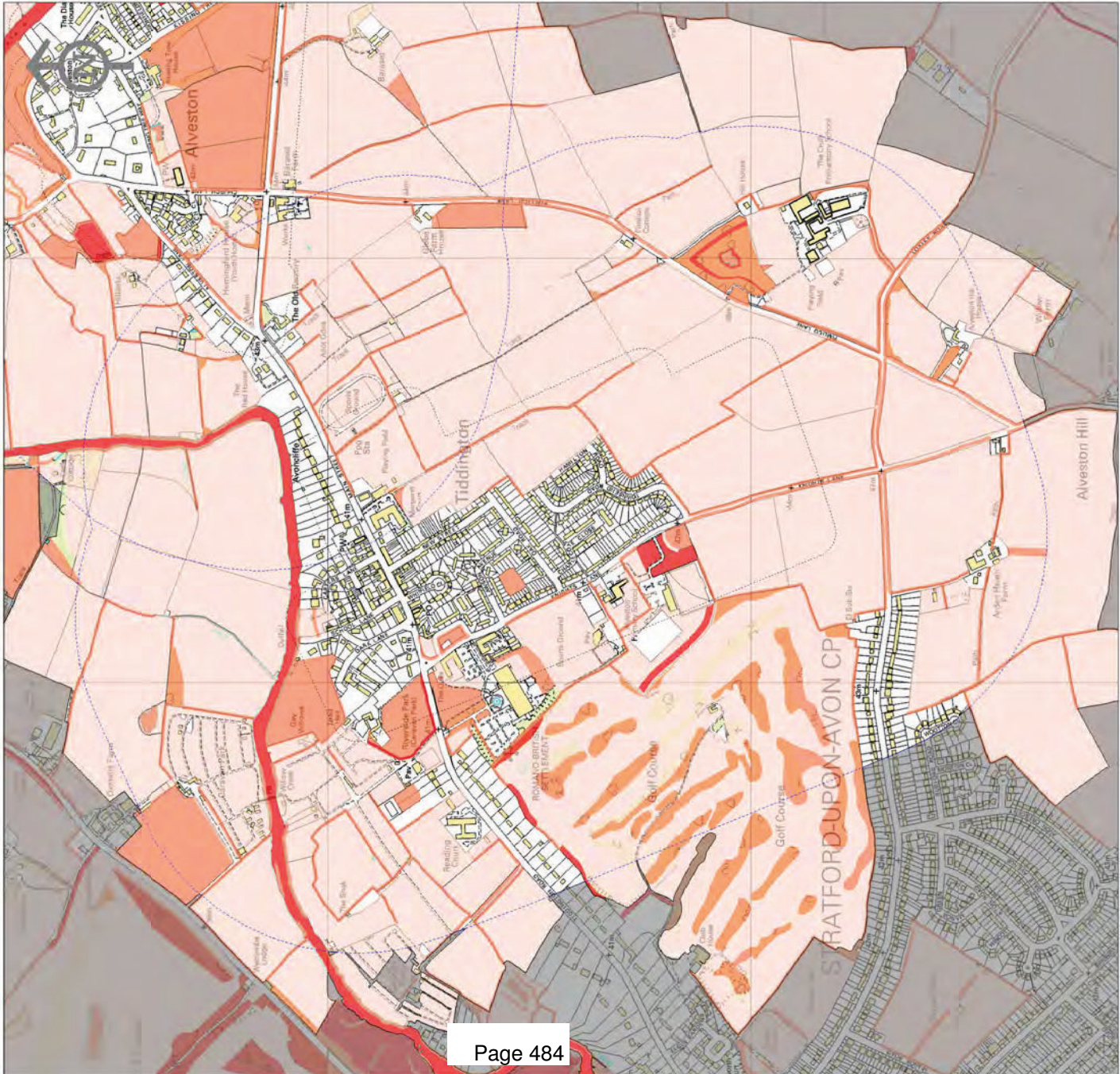
STUDY AREA



500m buffer

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TIDDINGTON



Settlement Distinctiveness

- 3: HIGH
- 2: MODERATE
- 1: LOW

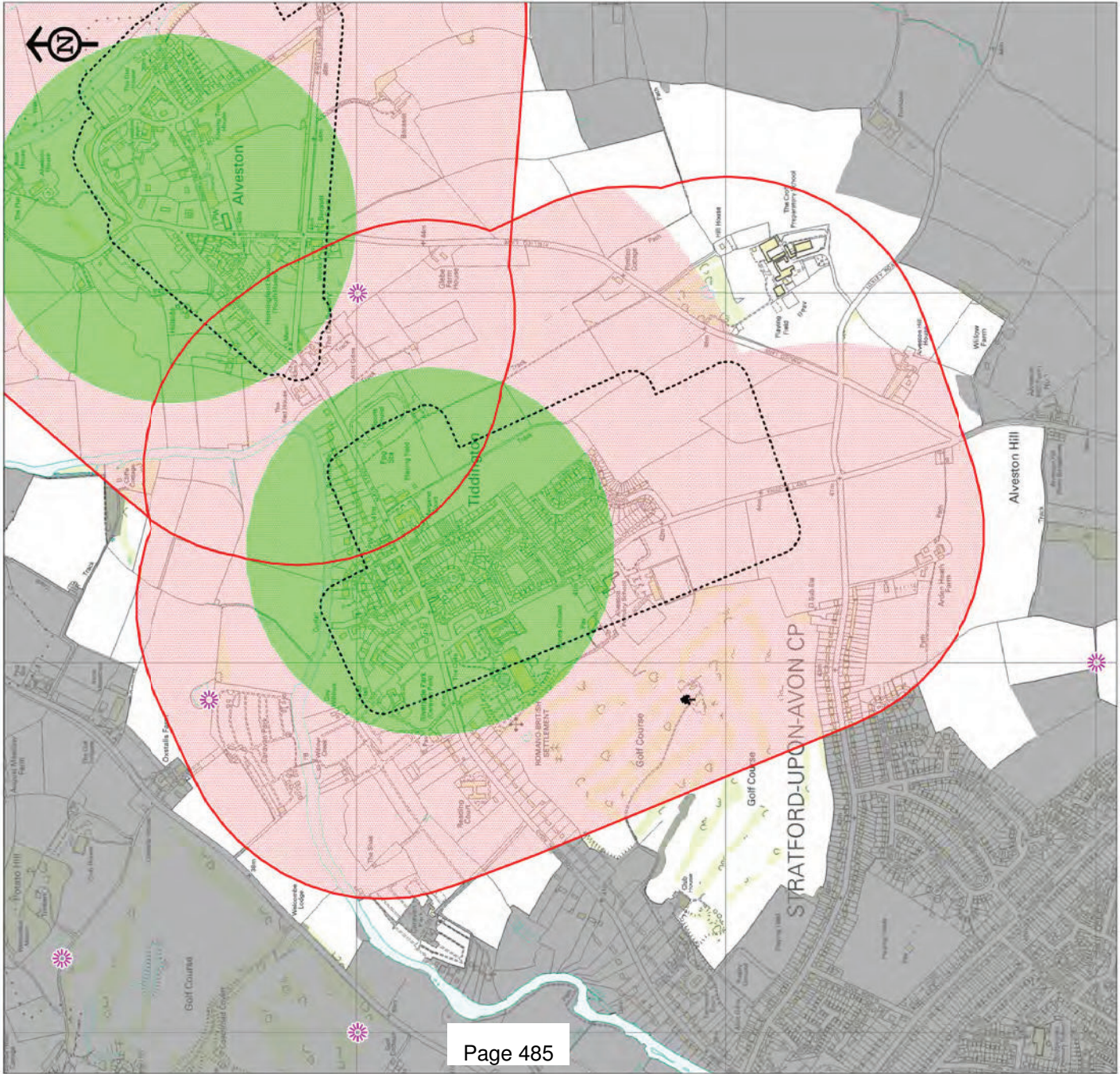
OS DEVELOPED LAND USE AREA

STUDY AREA

- 500m buffer
- Settlements

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TIDDINGTON



Species

Buffer zone for water vole or white-clawed crayfish

Buffer zone for protected amphibians and reptiles

Buffer zone for bat

Black Poplar

Veteran tree

County rare plant

STUDY AREA
 500m buffer
 OS DEVELOPED LAND USE AREA
 Settlements

Warwickshire Biological Records Centre



TIDDINGTON

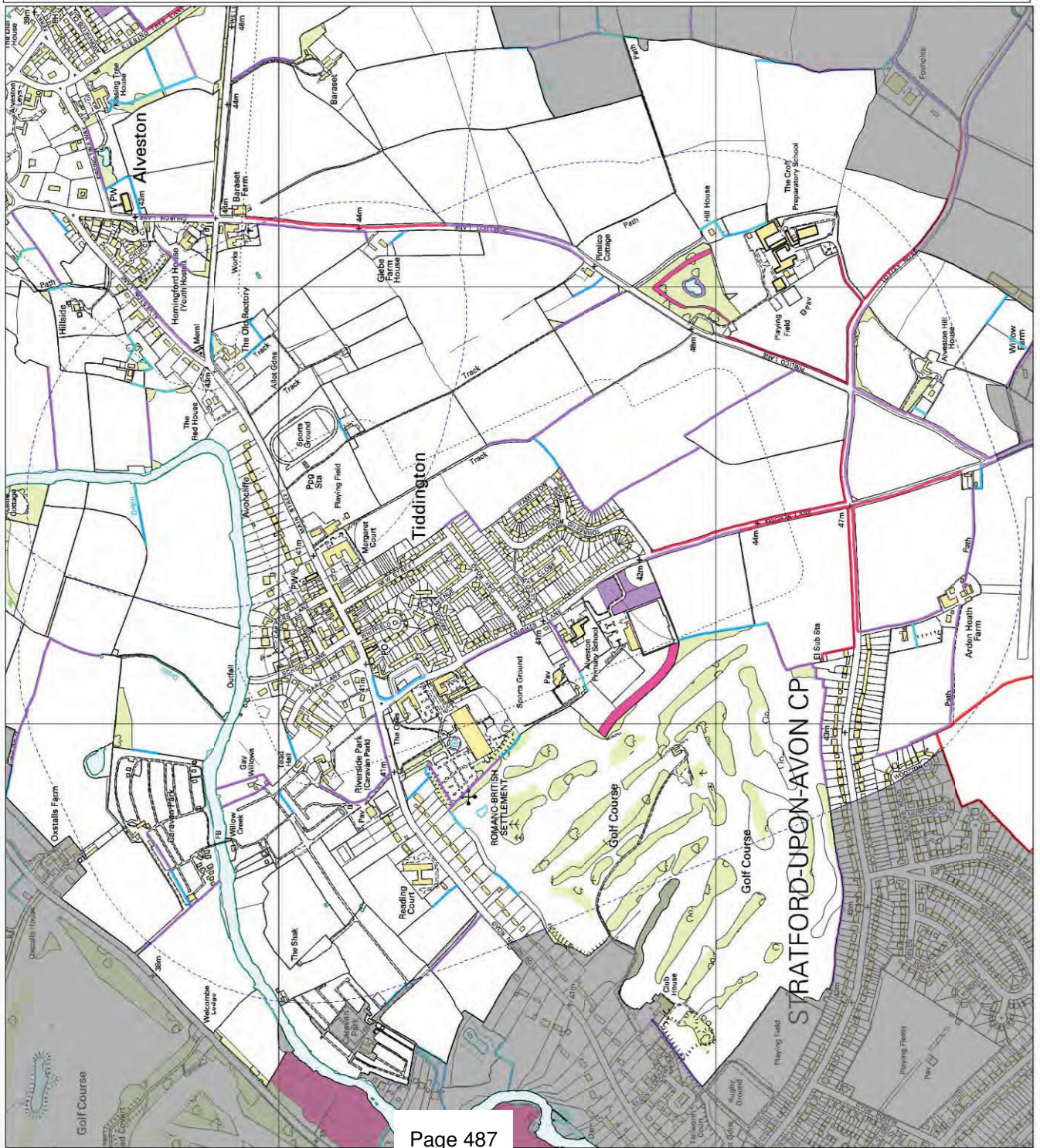


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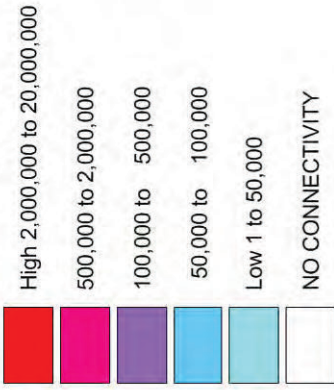


HABITAT BIODIVERSITY AUDIT
Warwickshire Historic and Natural Environment
Barrack Street
Warwick
CV34 4TH
Tel: 01926 412 197
Email: hba@warwickshire.gov.uk

TIDDINGTON



Grassland 1km Connectivity



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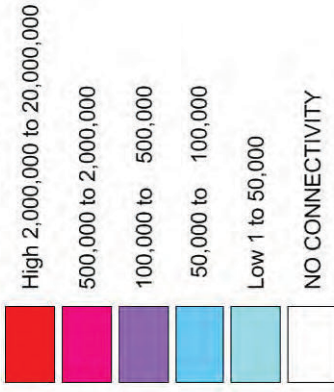
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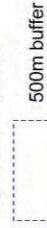
TIDDINGTON



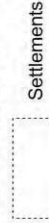
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Tredington

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
LWS potential site			
SP23Li17n River Stour	78.74	SP2564	Water courses and water bodies
SP24L2 Tredington Flood Meadows	3.14	SP2584	Semi-natural grasslands & marsh
SP24R2 Honington Hall	12.32	SP2614	Parkland and Orchards

Key Target Notes

- SP24I2 – Old flood meadow adjacent to River Stour
- SP24I6 – Mixed woodland and former parkland at Honington Hall
- SP24m14 – semi-improved grassland and scrub along roadside

Habitat Description

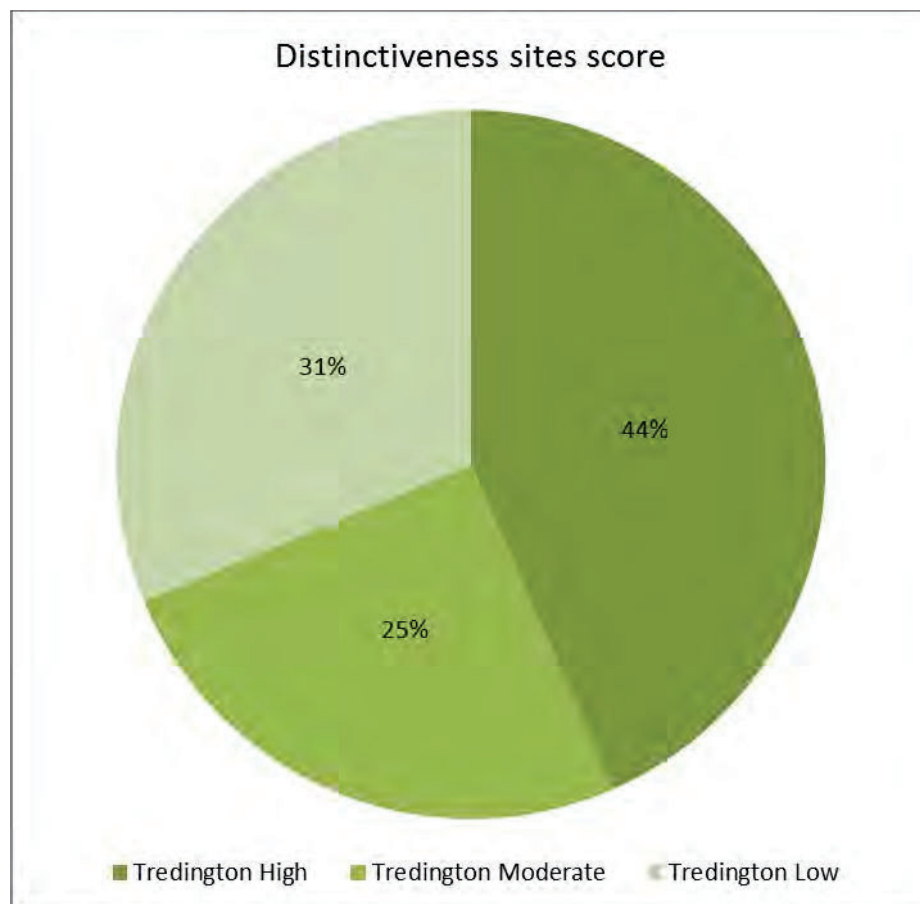
Broad leaved semi-natural woodland, semi-natural grassland and running water are the habitats with high distinctiveness. Many of these sites are along the River Stour and the Fosse Way A429.

Also noted are the scrub and woodland strips along the River Stour which provide the habitat corridors across the settlement.

The mixed woodland and former parkland at Honington Hall also have a mix of high and moderate habitats.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	8	1.86	24
A31 Broad-leaved parkland/scattered trees	2	1.52	6
A5 Orchard (commercial)	1	0.20	3
B22 Semi-improved neutral grassland	7	1.33	21
G1 Standing water	4	0.11	12
G2 Running water	9	6.23	27
Sub Total	31	11.25	93
Moderate			

A112 Broad-leaved plantation	15	7.32	30
A21 Dense/continuous scrub	8	2.73	16
A22 Scattered scrub	4	2.41	12
Sub Total	27	12.46	58
Low			
A132 Mixed plantation	3	1.15	3
B4 Improved grassland	28	72.40	28
C31 Tall ruderal	3	1.17	6
J11 Arable	16	185.71	16
J12 Amenity grassland	17	6.75	34
Sub Total	67	267.18	87
Totals	125	290.89	238



Geological Description

Tredington has considerable potential for its early Jurassic geology (Blue Lias Formation mudstones and limestones), with potential for significant palaeontological finds. Overlying Quaternary fluvial deposits are also of interest. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

A veteran white willow, small heath butterfly, water vole and the bat species of common and soprano pipistrelle and noctule have been recorded in the settlement area. In the wider area there are additional records of brown hare, hedgehog, badger, barn owl, smooth newt, great crested newt grass snake, hedgehog, badger, otter, with additional bat records of myotis sp.. There is also the rare plant of slender tare in the wider area.

Recommendations for Further Survey

- The River Stour and sites of high distinctiveness along the River
- Honington Hall mixed woodlands, water courses and marshy grasslands.

TREDINGTON



TARGET NOTES
 Point

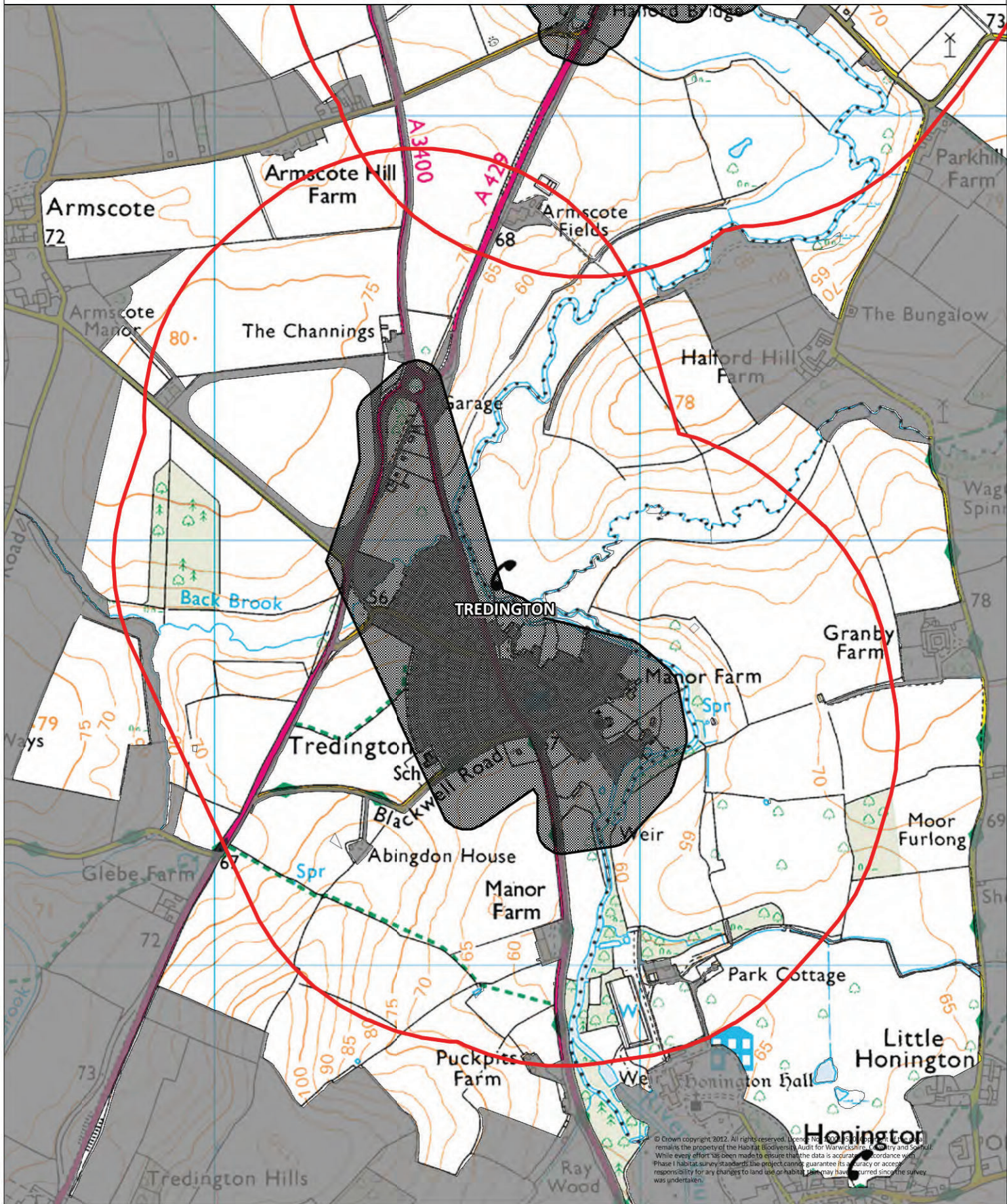
OS DEVELOPED LAND USE AREA
 Settlements

STUDY AREA
 500m buffer

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TREDINGTON

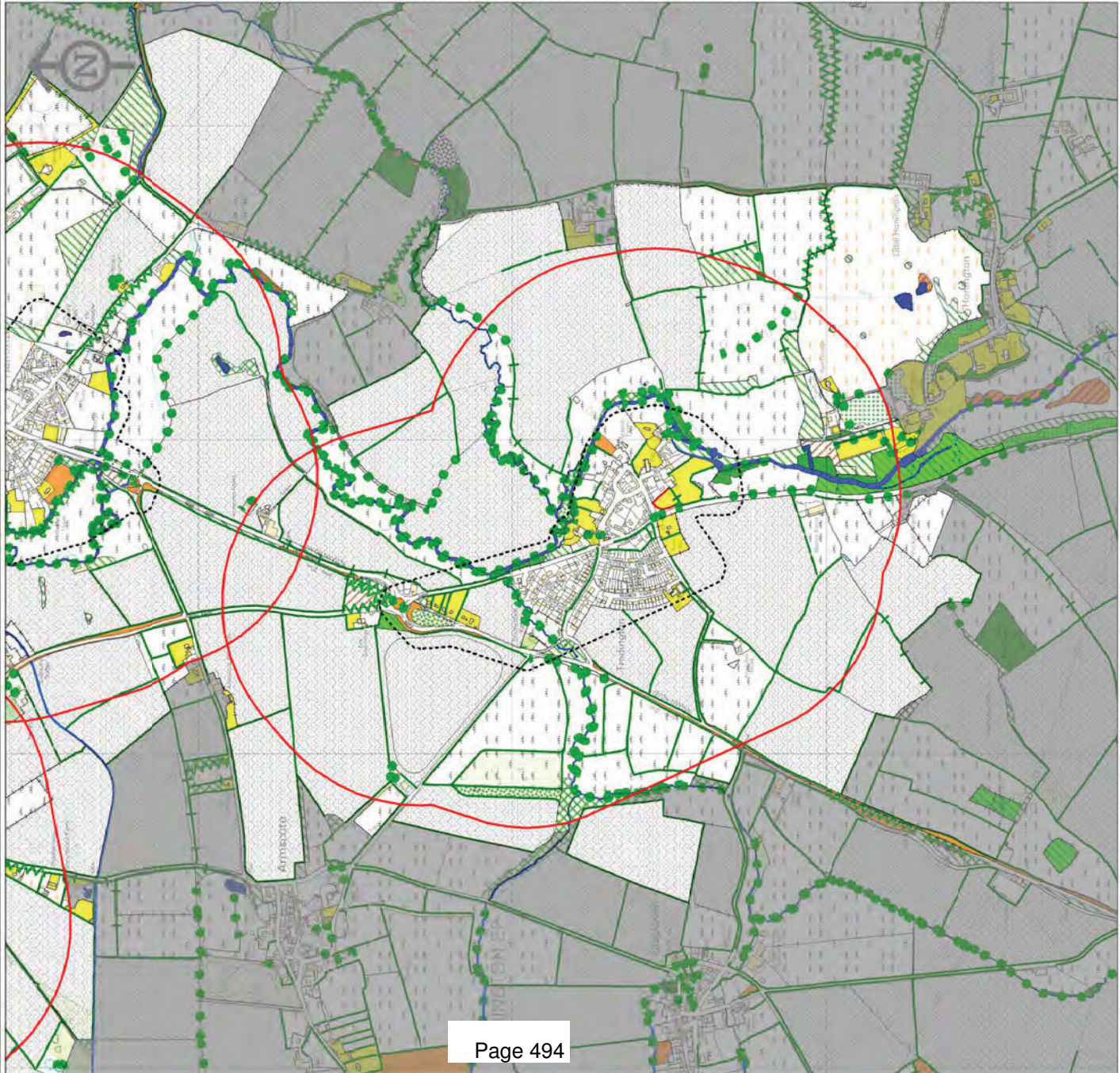


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2.9 SQKM

	Settlements		500m Buffer
	Settlements		500m Buffer

TREDINGTON



PHASE 1 HABITAT SURVEY

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	C31 (Tall ruderal)

	C32 (Non-ruderal)
	D5 (Dry heath/acid grassland mosaic)
	E11 (Sphagnum Bog)
	E21 (Acid/neutral flush)
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	G2 (Running water)
	I21 (Quarry)
	I22 (Spill)
	I23 (Mire)
	I24 (Refuse tip)
	J11 (Arable)
	J112 (Allotments)
	J113 (Set-aside)
	J12 (Amenity grassland)
	J13 (Ephemeral/short perennial)
	J14 (Introduced shrub)
	J36 (Buildings)
	J4 (Bare ground)

Linear Features

	A21 (Linear Scrub)
	A3 (Linear Trees)
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	I1 (Inland Cliff)
	J21 (Intact Hedge)
	J211 (Native Species Rich Intact Hedge)
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	J23 (Hedge with Trees)
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	J24 (Fence)
	J25 (Wall)
	J26 (Dry Ditch)
	J27 (Boundary Removed)
	J28 (Earth Bank)

STUDY AREA
 500m buffer

OS DEVELOPED LAND USE AREA
 Settlements

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Tredington

sp24110	Elder; alder and willow scrub over nettle; hogweed and hemlock with occasional burdock.
SP24L11	Tredington church yard, mostly mown except for small area set aside as conservation area. Few forbs present at time of visit. Ground ivy, wild onion (<i>Allium vineale</i>), white dead nettle, vetch Sp, cow parsley, dandelion. Notice in church entrance ecological survey request (Contact John Plender Reith. 01608 664278. john@n-i-p.co.uk).
sp2412	An old flood meadow adjacent to the River Stour. The low lying areas close to the river contain stands of yellow flag; <i>Carex riparia</i> ; <i>Juncus inflexus</i> ; <i>Juncus effusus</i> ; <i>Glyceria maxima</i> and several large pollarded willows. The river banks are steep at this point with frequent <i>Carex</i> spp.; nettle; comfrey; hemlock and occasional water figwort and great willow herb. Sweet woodruff and dame's violet are recorded at this site but were not seen during the survey.
sp2415	Dense hawthorn and elder scrub with willow and alder along the river bank.
sp2416	Mature mixed plantation on the site of old park land with; frequent self-seeded ash; yew and occasional larch over an understorey of elder and young sycamore. The ground flora is dominated by ivy and nettle with some extensive patches of dog mercury. In boggy areas near the river in silted up artificial channels there are frequent willow and alder over nettle with occasional wild angelica and gipsywort.
sp2417	Dense hawthorn and elder scrub with occasional hazel and elm suckers over nettle; broad-leaved dock and hedge bindweed. UPDATED 23/04/2012 by CFT. Open grass field with occasional hawthorn, willow and ash. Hazel coppice as well. Partially mown, few forbs seen. Daffodils, borage, white and red dead nettle, ground ivy around perimeter. Other species, meadow foxtail, thistle, dandelion and clover.
sp2418	Dense hawthorn and elder scrub with occasional hazel; elm suckers; willow and alder over nettle; broad-leaved dock and hedge bindweed. There is a line of poplars along the edge. UPDATED 23/04/2012 by CFT. Open scrub land with occasional hawthorn, elder and willow along bank. Ground flora mainly cleavers, cow parsley, pignut. Spear thistle and common nettle.
sp2419	Poplar plantation with occasional silver birch. There is little understorey and the ground flora is dominated by nettle with <i>Dactylis glomerata</i> and occasional <i>Poa trivialis</i> .
SP24M14	Area of scattered scrub with occasional planted stands of beech and silver birch. Understorey is hawthorn, rowan, occasional grassland, remnants of which can still be seen with; primroses, bulbous buttercups, cowslips and crow garlic. Remnants of old anthills.
sp24m9	Area of hawthorn scrub with rough grassland dominated by <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> ; and mown paths. UPDATED 14/05/2012 CFT. Grass verge and central area of roundabout semi-improved grassland with bulbous buttercups and planted silver birch in roundabout.
sp24r5	Broad-leaved plantation of beech with occasional horse chestnut and ash. There is a scattered understorey of elder with some previously coppiced ash and hazel presumably from a pre-existing wood; over a patchy ground cover of nettle; ground ivy and cow parsley.



TREDINGTON



SITES OF SPECIAL SCIENTIFIC INTEREST



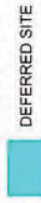
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ANCIENT WOODLAND

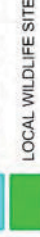


Ancient Woodland

LOCAL WILDLIFE SITES



DEFERRED SITE



LOCAL WILDLIFE SITE



POTENTIAL LOCAL WILDLIFE SITE

LOCAL NATURE RESERVE



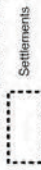
LNR

WARWICKSHIRE WILDLIFE TRUST RESERVES



WWT Reserve

OS DEVELOPED LAND USE AREA



Settlements

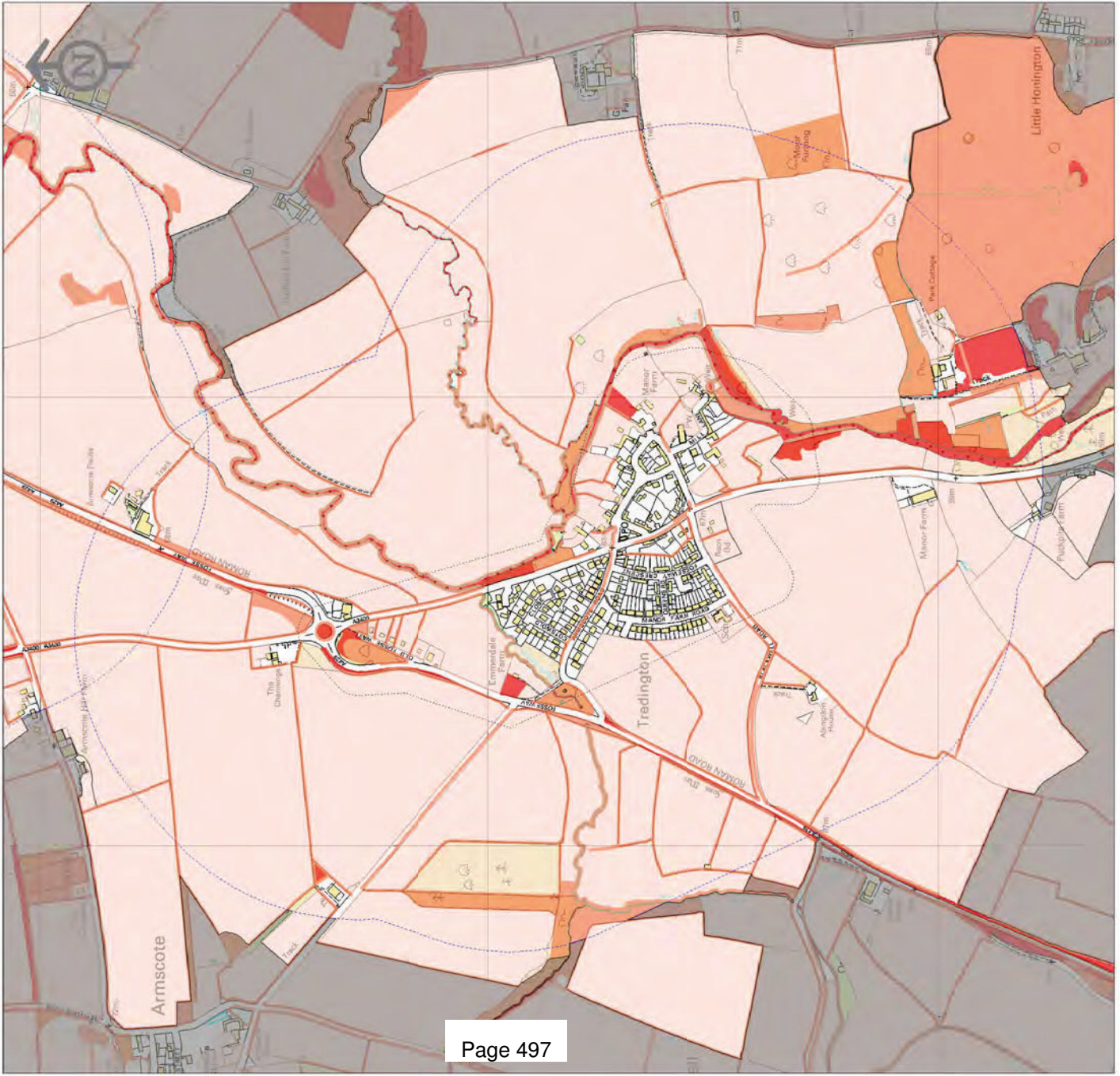
STUDY AREA



500m buffer

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TREDINGTON



Settlement Distinctiveness

- 3: HIGH
- 2: MODERATE
- 1: LOW

OS DEVELOPED LAND USE AREA

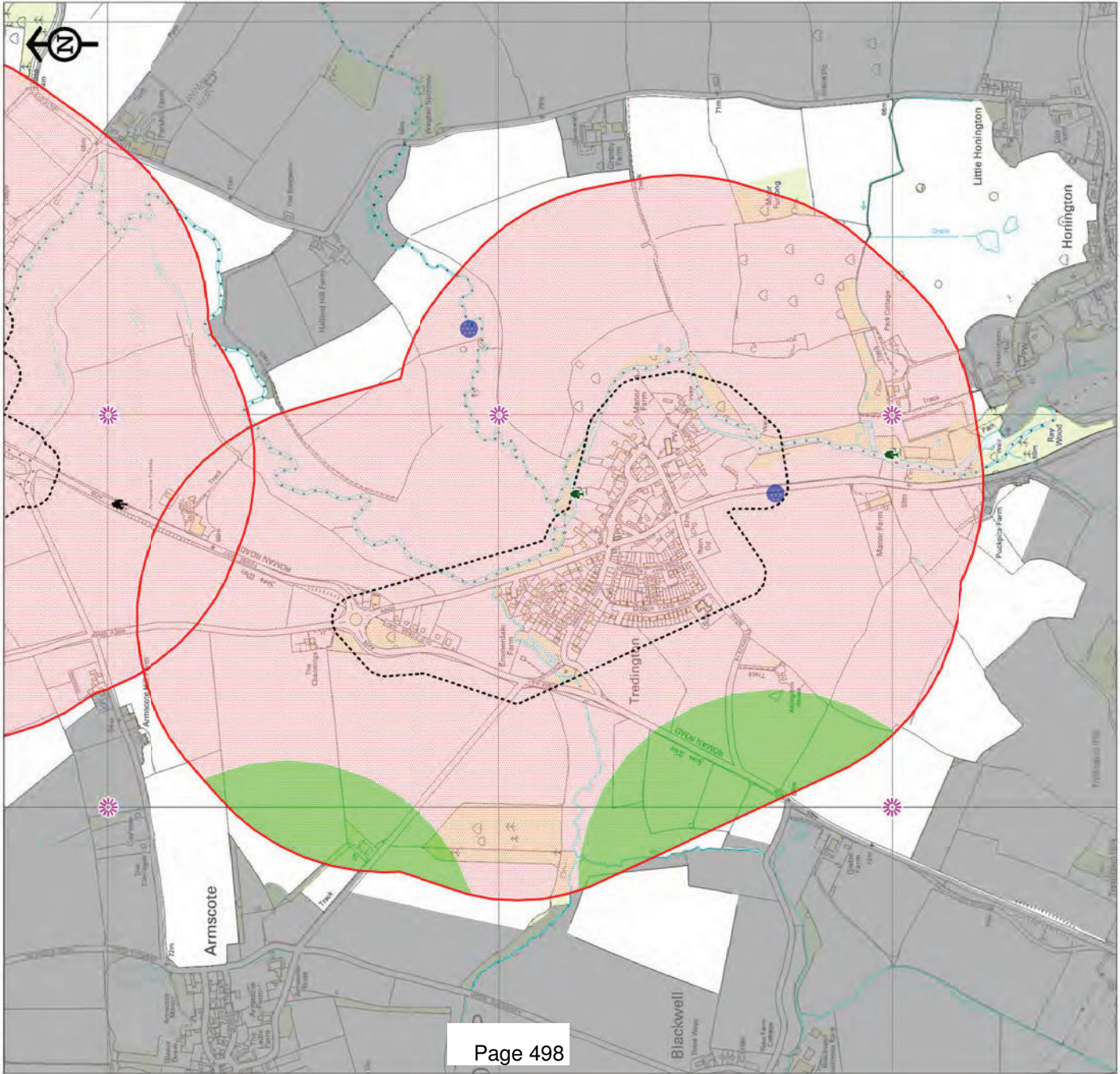
- Settlements

STUDY AREA

- 500m buffer

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TREDINGTON



Species

Buffer zone for water vole or white-clawed crayfish

Buffer zone for protected amphibians and reptiles

Buffer zone for bat

Black Poplar

Veteran tree

County rare plant

STUDY AREA

500m buffer

OS DEVELOPED LAND USE AREA

Settlements

Warwickshire Biological Records Centre



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TREDINGTON



Woodland 1km Connectivity

- HIGH: 2,000,000 to 20,000,000
- 500,000 to 2,000,000
- 100,000 to 500,000
- 50,000 to 100,000
- LOW: 1 to 50,000
- NO CONNECTIVITY 0 to 0

OS DEVELOPED LAND USE AREA

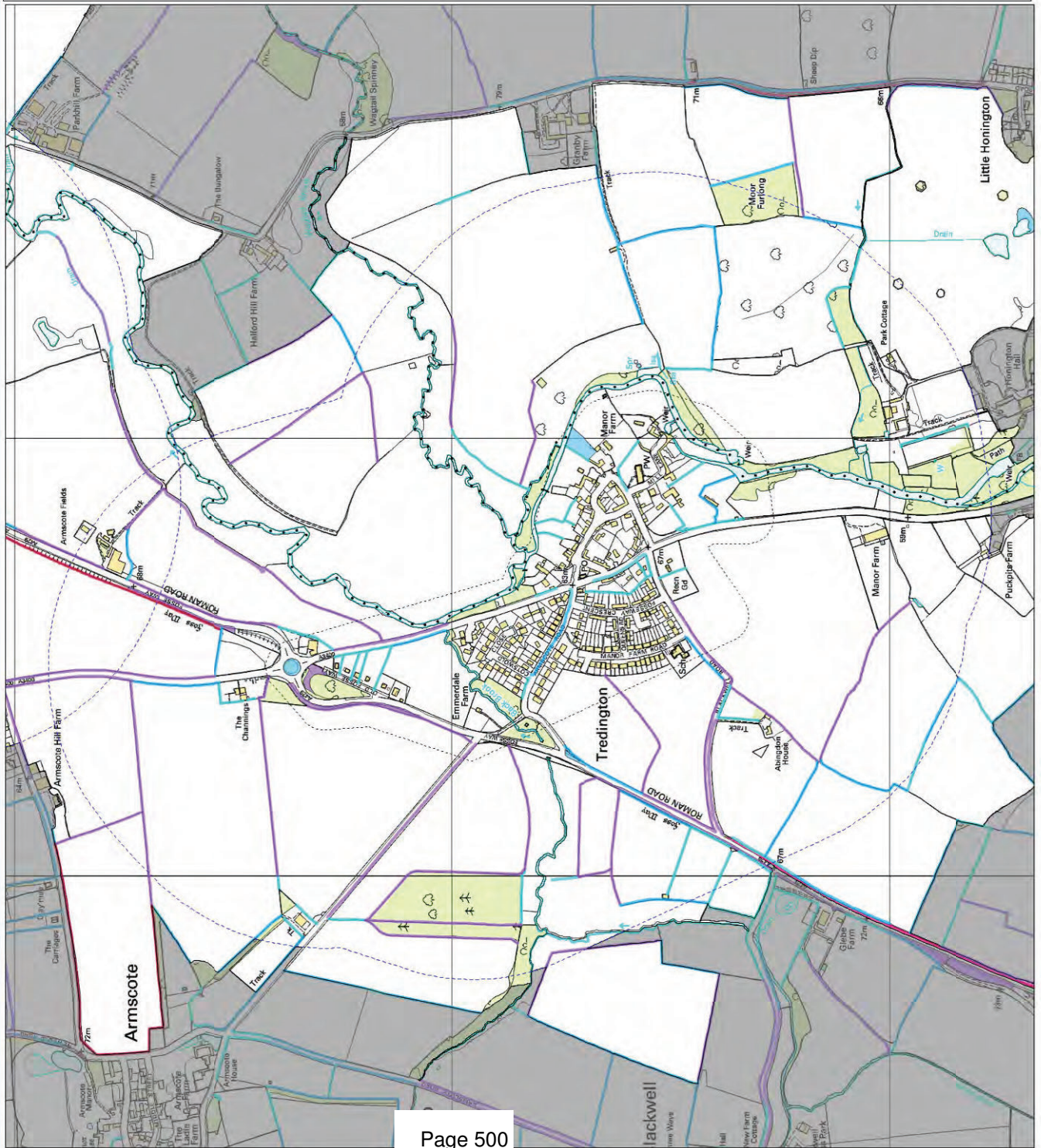
- STUDY AREA
- 500m buffer
- Settlements

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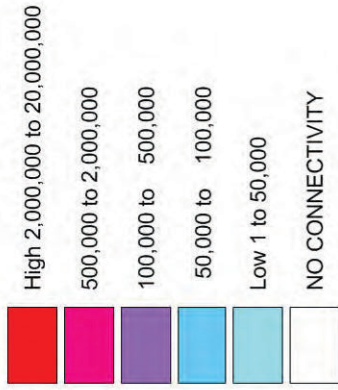


HABITAT BIODIVERSITY AUDIT
Warwickshire Historic and Natural Environment
Barrack Street
Warwick
CV34 4TH
Tel: 01926 412 197
Email: hba@warwickshire.gov.uk

TREDINGTON



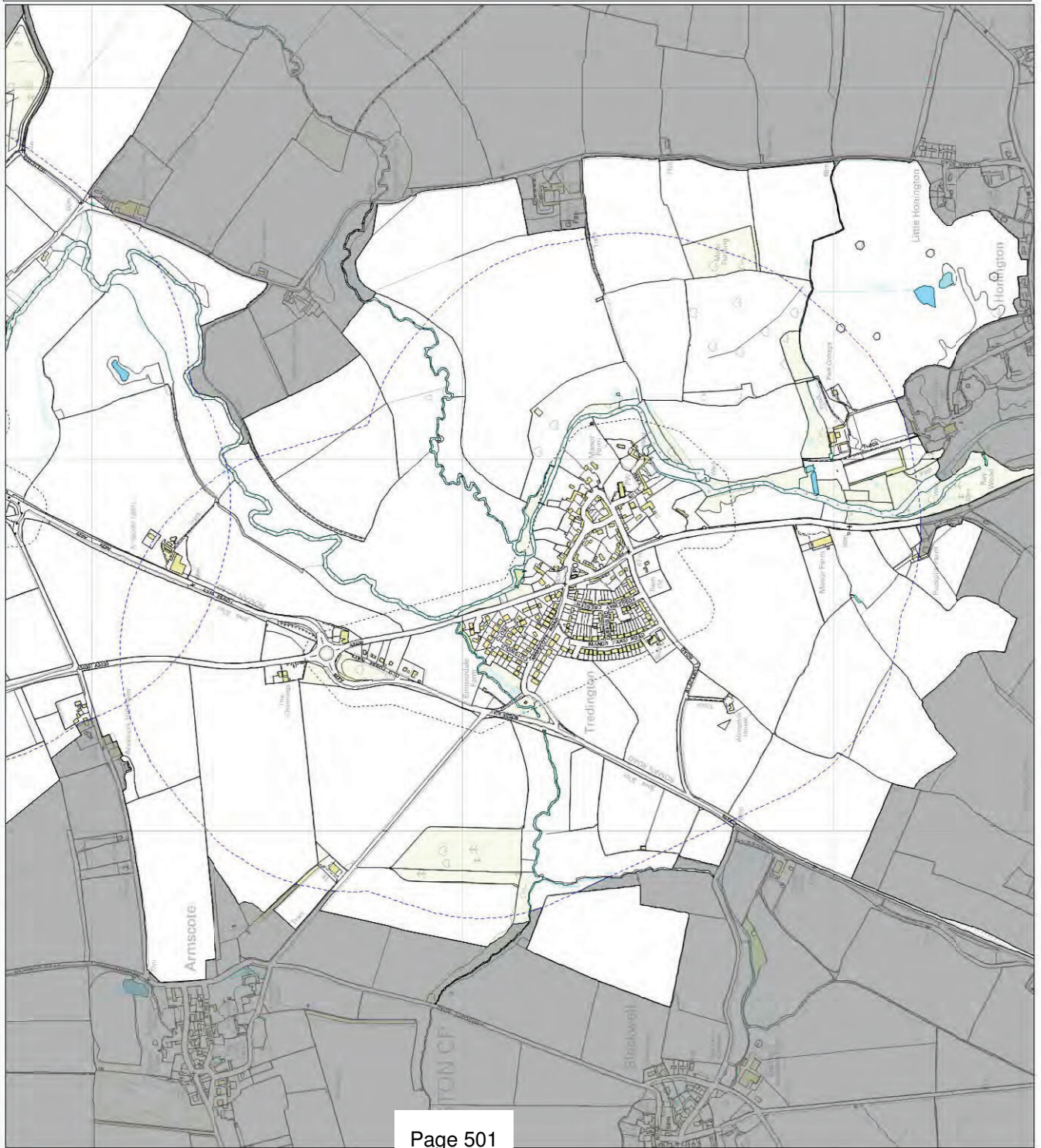
Grassland 1km Connectivity



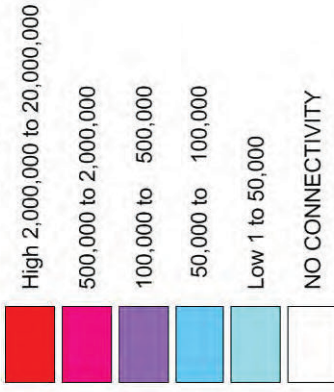
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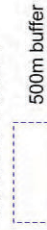
TREDINGTON



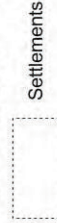
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Tysoe (Upper & Middle)

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
LWS potential sites			
SP34G3 Upper Tysoe Fields and Verge	4.33	SP3294	Semi-natural grasslands & marsh
WWT Tysoe Island Reserve			

Key Target Notes

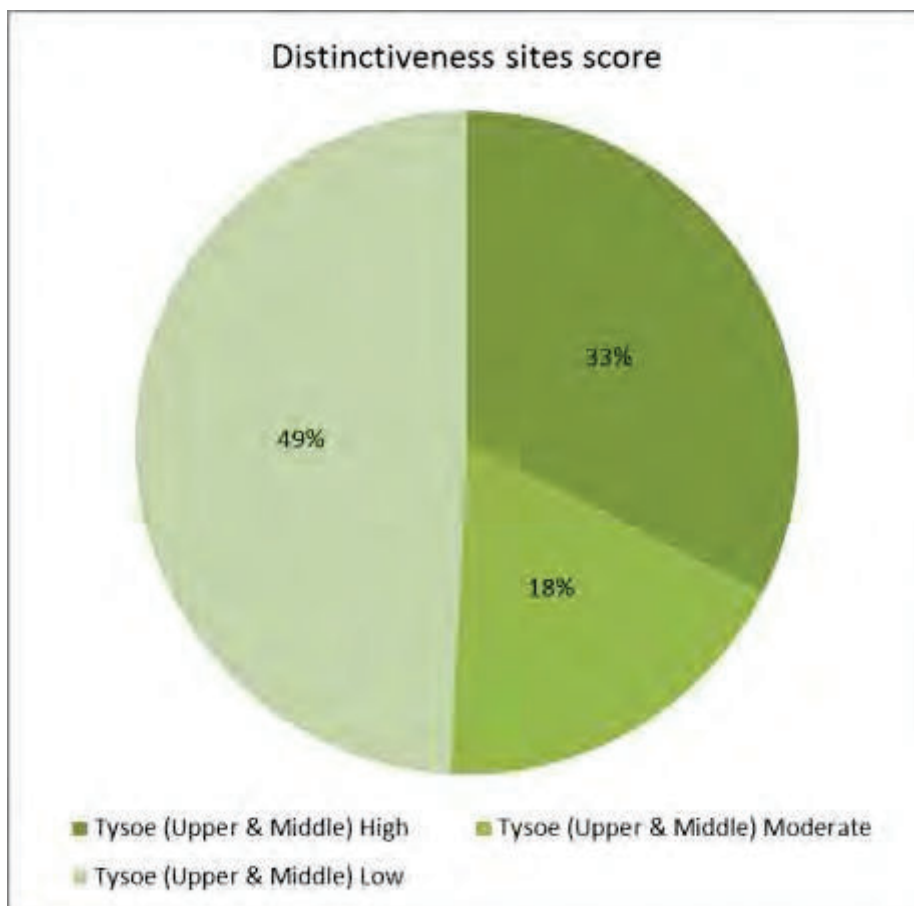
- SP34m11 and SP– Mixed grasslands and broad-leaved plantation with pond
- SP34g17 and SP34g18 – Mixed plantations and grasslands at manor house
- SP34g16 and SP34g2 – The Island mixed habitats along stream
- SP34g16 – Raodside verge with species rich hedgerow

Habitat Description

The Tysoed has a low percentage overall of high distinctiveness habitats. The main areas for habitats with high distinctiveness are around the Manor House and Farm in Upper Tysoe and the area around the Tysoe Island Trust Reserve which is heavily scrubbed and wooded section along the stream with some remnants of semi-improved grassland.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	4	1.79	12
A5 Orchard (commercial)	1	0.11	3
B22 Semi-improved neutral grassland	5	2.33	15
B5 Marsh/marshy grassland	1	0.35	3
G1 Standing water	3	0.04	9
G2 Running water	6	0.52	18
Sub Total	20	5.14	60
Moderate			
A112 Broad-leaved plantation	7	2.27	14
B6 Semi-improved neutral grassland	7	14.24	14
J112 Allotments	1	0.71	2
J113 Set-aside	2	1.24	2

Sub Total	17	18.45	32
Low			
A122 Coniferous plantation	1	0.56	1
A132 Mixed plantation	2	0.36	2
B4 Improved grassland	55	113.85	55
C31 Tall ruderal	1	0.08	2
J11 Arable	19	138.19	19
J12 Amenity grassland	12	7.09	24
J4 Bare ground	1	0.46	1
Sub Total	91	260.58	104
Totals	128	284.17	196



Geological Description

Middle Tysoe has considerable potential for its early Jurassic geology (Charmouth Mudstone Formation), with opportunities for palaeontological discoveries. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

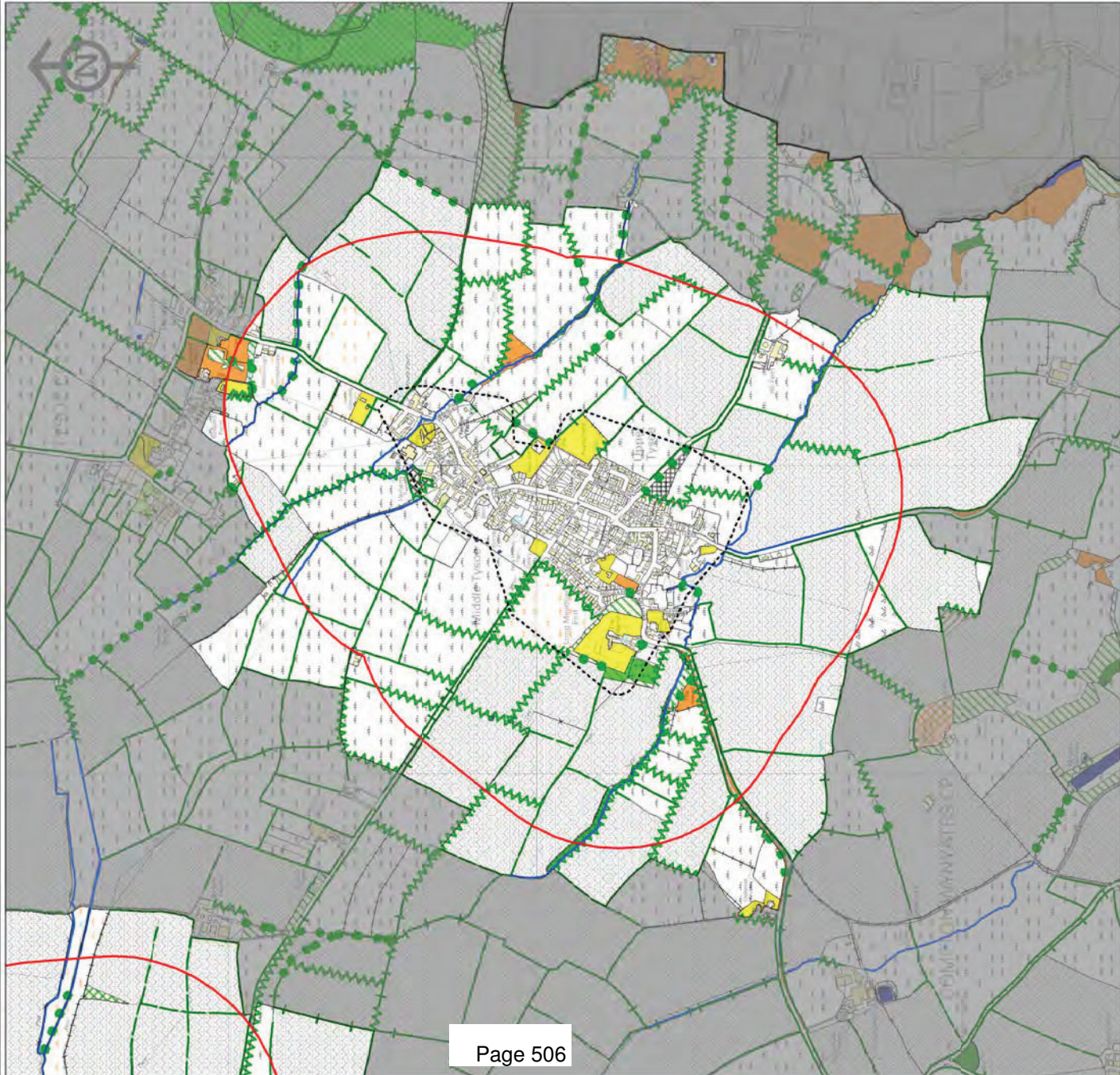
Protected Species

A veteran walnut tree, badger and the bat species of pipistrelle and brown long-eared have been recorded in the settlement area. In the wider area there are additional records of grass snake and the additional bat records of noctule and myotis sp., common and soprano pipistrelles plus a butterfly record of wall, white-letter hairstreak, dingy skipper and small heath.

Recommendations for Further Survey

- Tysoe Island and roadside verges

TYSOE (UPPER & MIDDLE)



PHASE 1 HABITAT SURVEY

Habitat Types

A111 (Broad-leaved semi-natural woodland)	B11 (Unimproved acidic grassland)	B22 (Unimproved neutral grassland)	B32 (Semi-improved calcareous grassland)
A112 (Broad-leaved plantation)	B12 (Semi-improved acidic grassland)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)
A121 (Coniferous semi-natural woodland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A122 (Coniferous plantation)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A131 (Mixed semi-natural woodland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A132 (Mixed plantation)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A21 (Dense/continuous scrub)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A22 (Scattered scrub)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A31 (Broad-leaved parkland/scattered trees)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A32 (Coniferous parkland/scattered trees)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A4 (Recently felled woodland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
A5 (Orchard)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B11 (Unimproved acidic grassland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B12 (Semi-improved acidic grassland)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B21 (Unimproved neutral grassland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B22 (Unimproved neutral grassland)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B31 (Unimproved calcareous grassland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B32 (Semi-improved calcareous grassland)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B4 (Improved grassland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B5 (Marsh/marshy grassland)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
B6 (Poor semi-improved grassland)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
C11 (Continuous bracken)	B21 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)
C31 (Tall ruderal)	B22 (Unimproved neutral grassland)	B31 (Unimproved calcareous grassland)	B32 (Semi-improved calcareous grassland)

C32 (Non-ruderal)	F1 (Swamp)	G1 (Standing water)	J11 (Arable)
D5 (Dry heath/acid grassland mosaic)	F22 (Inundation vegetation)	G2 (Running water)	J112 (Allotments)
E11 (Sphagnum Bog)	G1 (Standing water)	G2 (Running water)	J113 (Set-aside)
E21 (Acid/neutral flush)	G2 (Running water)	G2 (Running water)	J12 (Amenity grassland)
E31 (Valeiy mire)	I21 (Quarry)	I22 (Spoil)	J13 (Ephemeral/short perennial)
E32 (Basin mire)	I23 (Mire)	I24 (Refuse tip)	J14 (Introduced shrub)

Linear Features

A21 (Linear Scrub)	J23 (Hedge with Trees)
A3 (Linear Trees)	J231 (Native Species Rich Hedge with Trees)
G1 (Standing Water)	J24 (Fence)
G2 (Running Water)	J25 (Wall)
I1 (Inland Cliff)	J26 (Dry Ditch)
J21 (Intact Hedge)	J27 (Boundary Removed)
J211 (Native Species Rich Intact Hedge)	J28 (Earth Bank)
J22 (Defunct Hedge)	

STUDY AREA

500m buffer

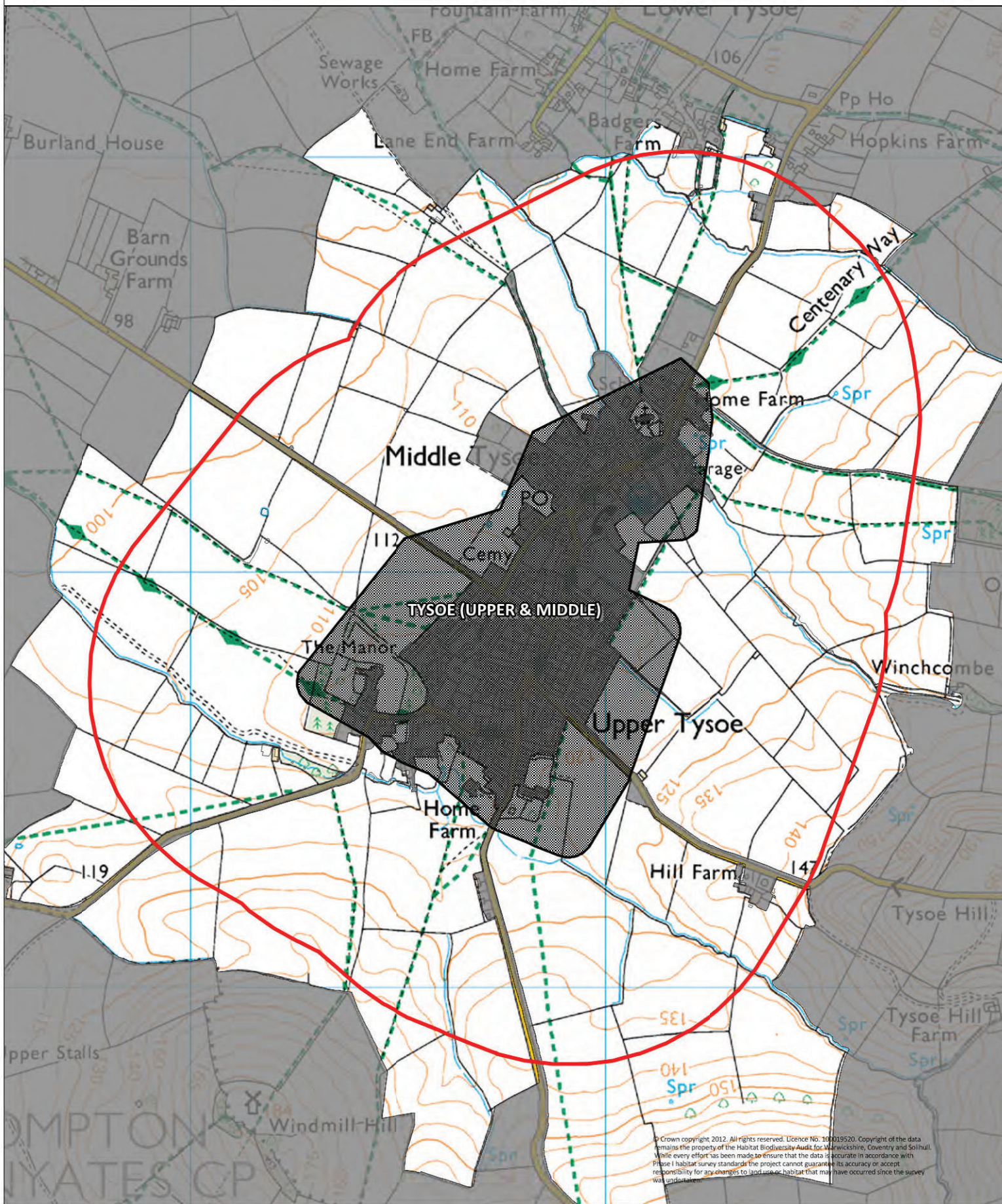
OS DEVELOPED LAND USE AREA

Settlements

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TYSOE (UPPER & MIDDLE)



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3.1 SQKM

Settlements



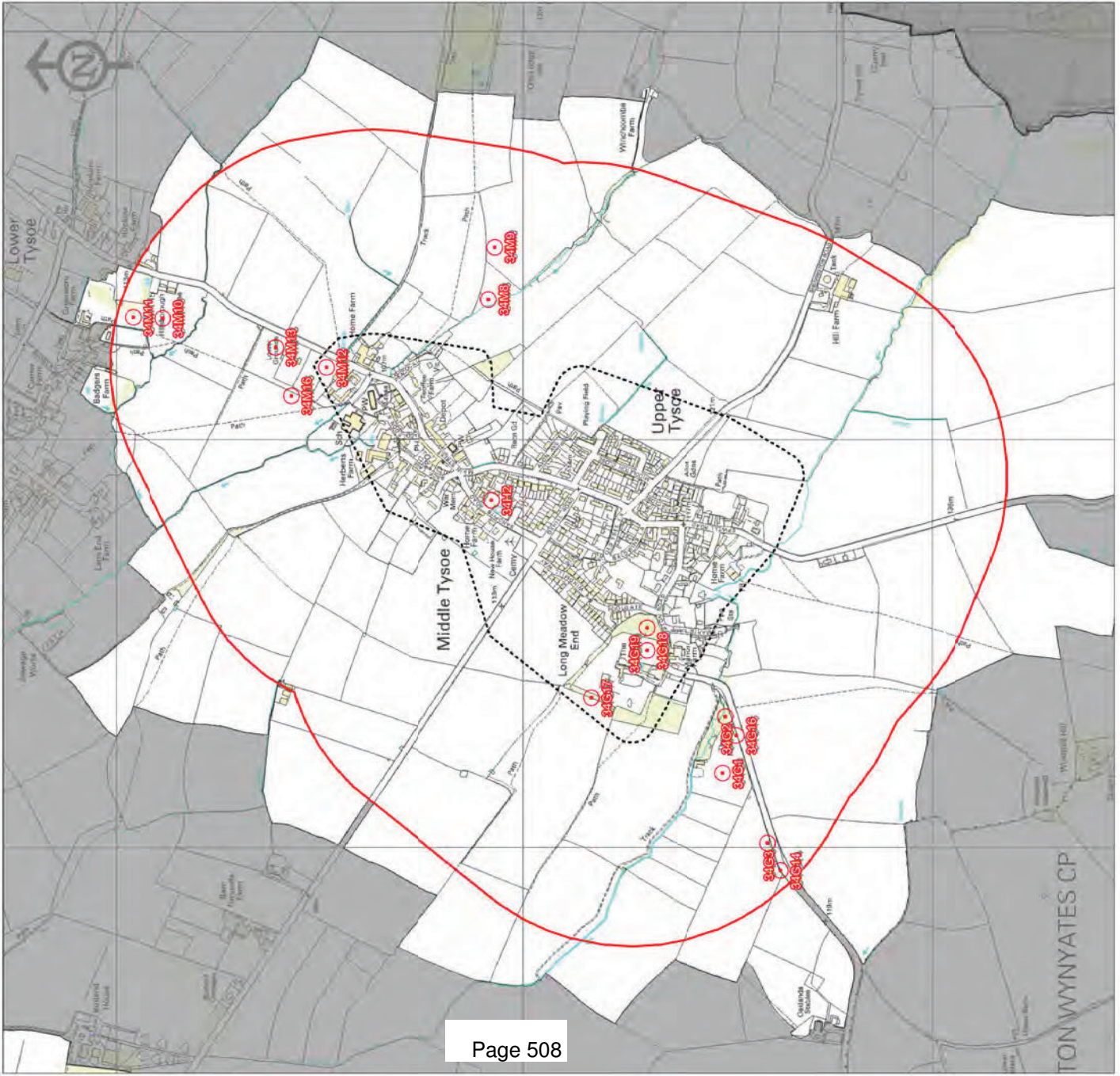
Settlements

500m Buffer



500m Buffer

TYSOE (UPPER & MIDDLE)



- TARGET NOTES**
 Point
- OS DEVELOPED LAND USE AREA**
 Settlements
- STUDY AREA**
 500m buffer

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Tysoe (Upper & Middle)

sp34g1	Poor semi-improved grassland dominated by <i>Cynosurus cristatus</i> and <i>Lolium perenne</i> with <i>Holcus lanatus</i> ; <i>Agrostis capillaris</i> ; <i>Festuca rubra</i> ; <i>Hordeum secalinum</i> ; <i>Arrhenatherum elatius</i> and abundant meadow buttercup. Also contains white and red clover; creeping thistle; creeping cinquefoil and meadow vetchling. UPDATED 22/05/2012 CFT. Field is partly fenced off with horses grazing. Unable to gain access and footpath is not clear here. Down grade to a poor semi-improved grassland.
SP34G14	Road verge here has Japanese knotweed (<i>Fallopia japonica</i>) with star of bethlehem (<i>Ornithogalum arabicum</i>) introduced garden weeds?
SP34G16	Species rich hedgerow grown out and quite scrubby with midland hawthorn, crab apple, mature ash, regenerating elm, bramble, ivy and wild privet.
SP34G17	Mixed plantation with field maple, ash, grey poplar, horse chestnut, pine spp. Understorey has hawthorn and blackthorn. Alongside path past the estate is copper beech and sweet chestnut common beech.
SP34G18	Semi-improved grassland in boundary of manor house. Tall grassy throughout with occasional planted horse chestnut, copper beech, sweet chestnut, weeping willow and conifers. Not grazed at time of visit and no access.
SP34G19	Mature broad leaf plantation with horse chestnut, sweet chestnut, oak, sycamore and aspen. Understorey has suckering ash and hawthorn.
sp34g2	Neglected semi-improved grassland containing abundant hogweed; <i>Holcus lanatus</i> ; meadow vetchling; hedge woundwort; perforate St John's wort; red campion; hedge bindweed; ground ivy; cow parsley and herb robert. Contains a strong ringlet population with frequent meadow brown. UPDATED 22/05/2012 CFT. Former grassland area scrubbed over with red campion, hogweed, occasional primrose, and greater stitchwort. Notice Wildlife Trust Reserve under going some kind of restoration? Too shaded for a grassland area moving towards a natural regenerating woodland with oak, ash, horse chestnut, wild cherry with occasional poplar dying off. Understorey is hawthorn, black thorn, with goat willow and alder along stream.
sp34g3	Wide roadside verge dominated by <i>Arrhenatherum elatius</i> with <i>Lolium perenne</i> ; <i>Dactylis glomerata</i> ; <i>Festuca rubra</i> ; <i>Agrostis capillaris</i> and <i>Poa pratensis</i> . Contains ribwort plantain and locally abundant meadow vetchling; hogweed; cow parsley; red clover; lesser knapweed and nettle. Also includes some lady's bedstraw; agrimony; common vetch; bird's foot trefoil; silverweed; meadow buttercup; goat's beard; hedge woundwort; field bindweed and some meadow crane's bill. Contains strong ringlet population.
SP34H2	Pond: Fenced off from surrounding horse grazed field with water lily, variegated iris, reed and fern. Surrounded by planted ash, alder and limes. Occasional rowan and wayfaring tree along boundary. Also great willow herb.
sp34m10	Poor semi-improved grassland containing abundant <i>Holcus lanatus</i> ; <i>Hordeum secalinum</i> ; <i>Anthoxanthum odoratum</i> with locally dominated by <i>Deschampsia cespitosa</i> and nettle. Sheep grazed. Potential for ground nesting birds. UPDATED 22/05/2012 CFT. Poor grassland appears degraded, few forbs present, spear thistle throughout. Ridge and furrow throughout but less pronounced than in nearby field.
sp34m11	Poor semi-improved grassland dominated by <i>Cynosurus cristatus</i> with <i>Lolium perenne</i> ; <i>Alopecurus pratensis</i> ; <i>Poa pratensis</i> ; <i>Agrostis capillaris</i> and <i>Hordeum secalinum</i> . Also contains abundant white clover with red clover; meadow buttercup; bulbous buttercup. Managed as a hay meadow. Ringlets and meadow brown butterfly noted. UPDATED 22/05/2012 CFT. Field has been landscaped since last recorded. Two small ponds have been created with goat and weeping willow close by. Flag iris, occasional hard/soft rush and comfrey.



Target Notes

SP34M12	Poor semi-improved meadow not previously recorded with meadow foxtail, buttercup, common mouse ear, red clover. Occasional patches of nettle. Viewed from road side. Ungrazed.
SP34M13	Poor semi-improved meadow with two goats and a horse grazing. High ridge and deep furrow throughout. Forbs same as for TN12.
SP34M16	Semi-improved meadow grazed at time of visit with extensive ridge and furrow throughout. Forbs include meadow buttercup, common mouse ear, bulbous buttercup, ladies smock. Meadow foxtail, smooth meadow grass and crested dog's tail main grasses here (for time of year). Typical sheep grazed pasture that has not been over grazed.
sp34m8	Small poor semi-improved grassland dominated by <i>Cynosurus cristatus</i> with <i>Lolium perenne</i> ; <i>Holcus lanatus</i> ; <i>Poa pratensis</i> ; <i>Anthoxanthum odoratum</i> ; selfheal; red clover; meadow buttercup; creeping buttercup; sorrel; daisy and locally abundant thistle.
sp34m9	Strange area of semi-improved grassland locally dominated by <i>Cynosurus cristatus</i> and <i>Juncus inflexus</i> with field pattern furrows containing <i>Anthoxanthum odoratum</i> ; <i>Holcus lanatus</i> ; creeping buttercup and meadow buttercup and red clover. Appears that some effort has been made to level ridge and furrow.



TYSOE (UPPER & MIDDLE)

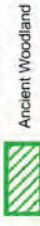


SITES OF SPECIAL SCIENTIFIC INTEREST



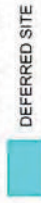
SSSI

ANCIENT WOODLAND



Ancient Woodland

LOCAL WILDLIFE SITES



DEFERRED SITE



LOCAL WILDLIFE SITE



POTENTIAL LOCAL WILDLIFE SITE

LOCAL NATURE RESERVE



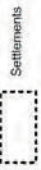
LNR

WARWICKSHIRE WILDLIFE TRUST RESERVES



WWT Reserve

OS DEVELOPED LAND USE AREA



Settlements

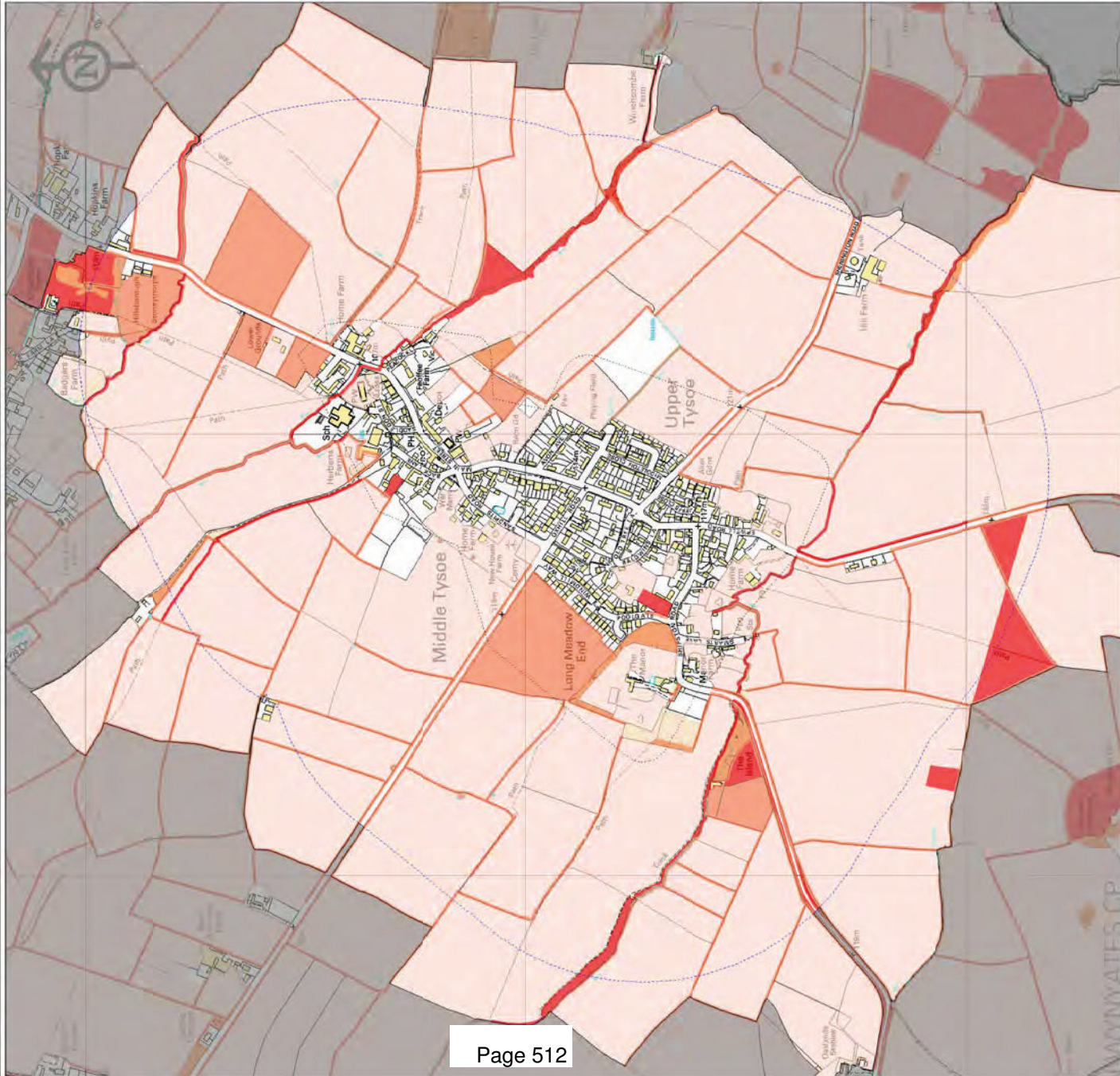
STUDY AREA



500m buffer

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TYSOE (UPPER & MIDDLE)



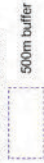
Settlement Distinctiveness

- 3: HIGH
- 2: MODERATE
- 1: LOW

OS DEVELOPED LAND USE AREA

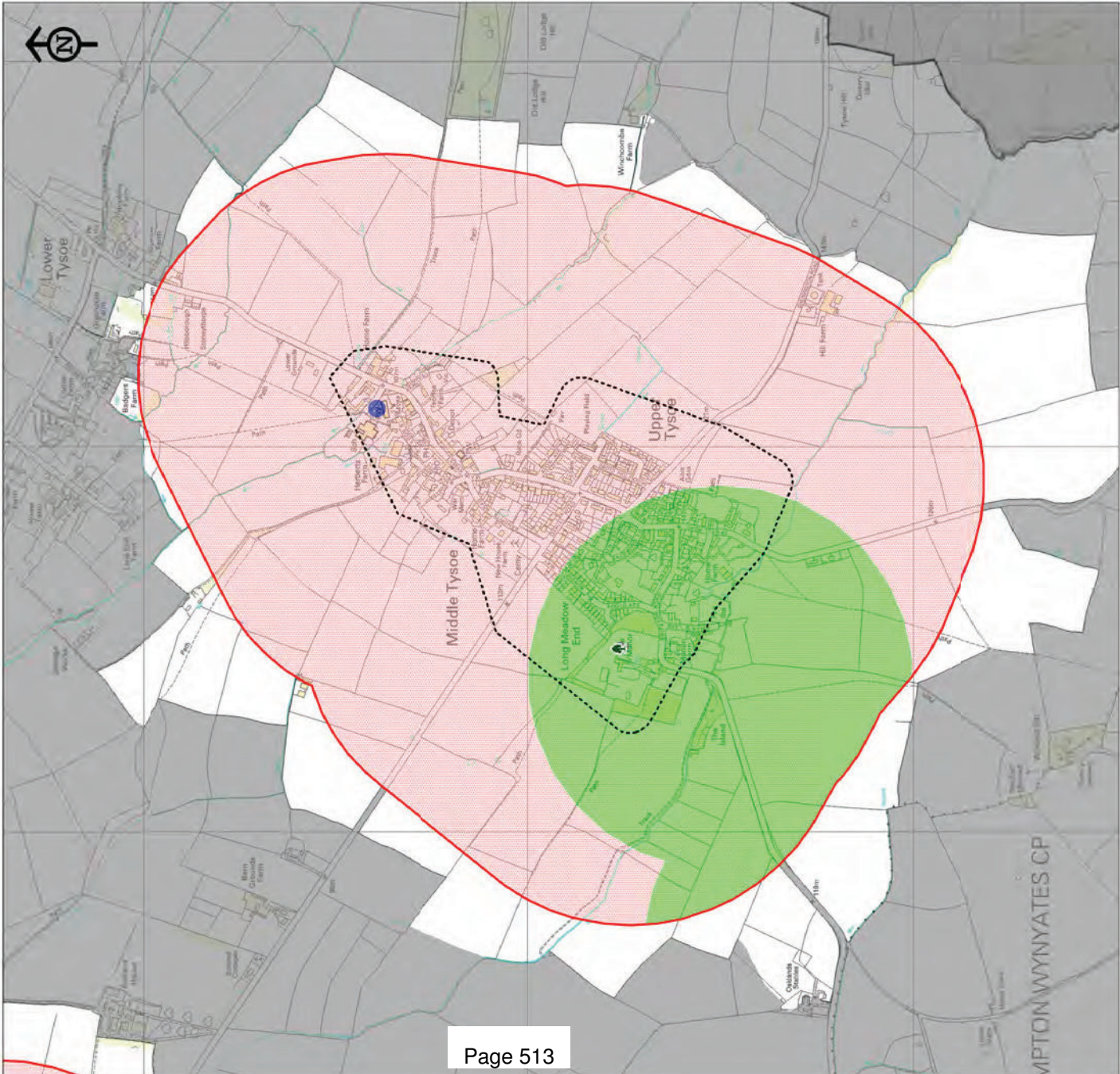


STUDY AREA



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TYSOE (UPPER & MIDDLE)



Species

Blue square: Buffer zone for water vole or white-clawed crayfish

Green square: Buffer zone for protected amphibians and reptiles

Red square: Buffer zone for bat

Black Poplar icon

Veteran tree icon

County rare plant icon



Warwickshire Biological Records Centre

STUDY AREA: Red outline
 OS DEVELOPED LAND USE AREA: Dotted outline
 500m buffer: Red outline
 Settlements: Dotted outline

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TYSOE (UPPER & MIDDLE)



Woodland 1km Connectivity

- HIGH: 2,000,000 to 20,000,000
- 500,000 to 2,000,000
- 100,000 to 500,000
- 50,000 to 100,000
- LOW: 1 to 50,000
- NO CONNECTIVITY 0 to 0

STUDY AREA
 500m buffer

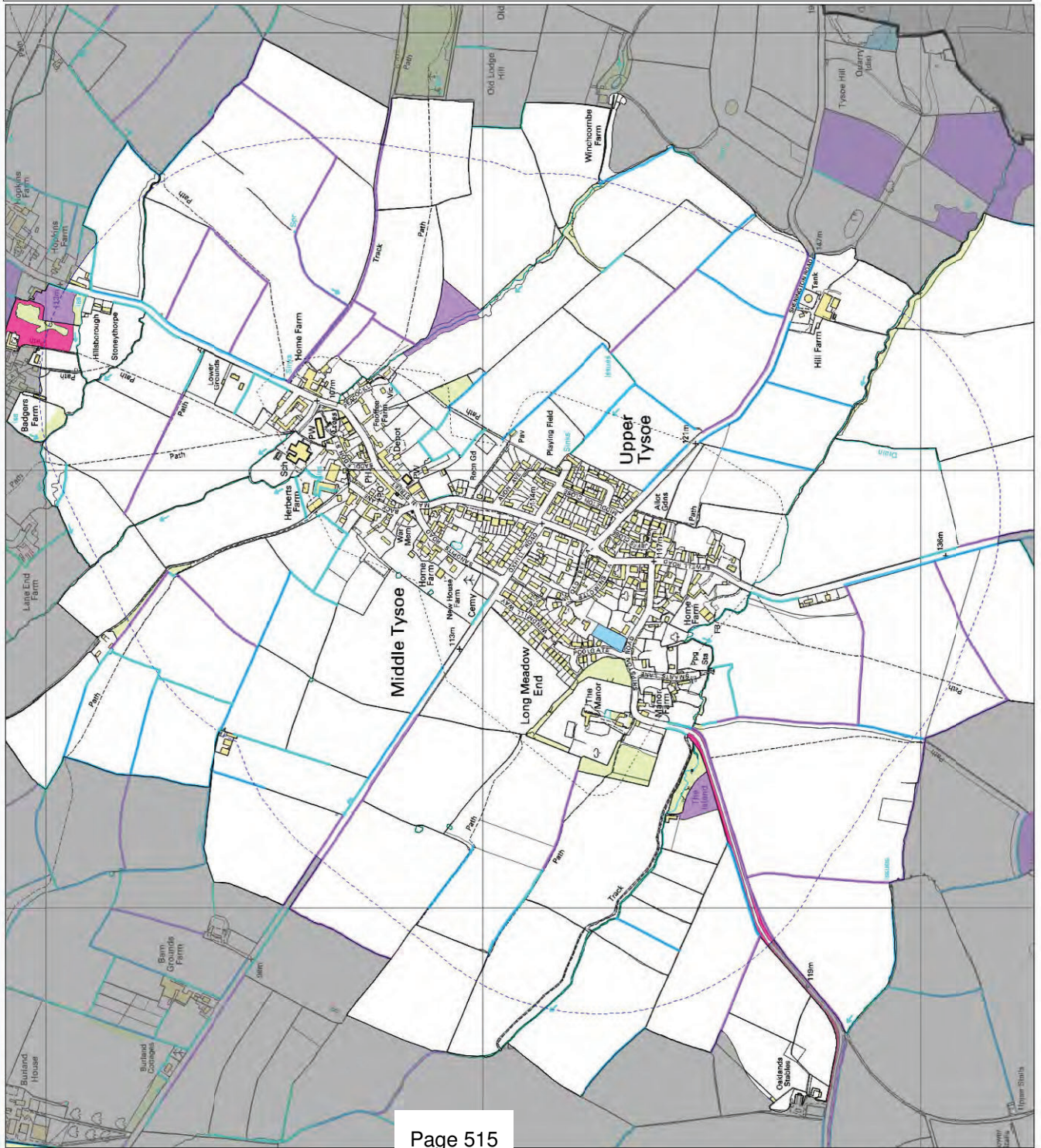
OS DEVELOPED LAND USE AREA
 Settlements

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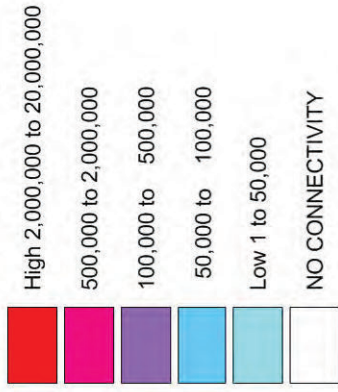


HABITAT BIODIVERSITY AUDIT
Warwickshire Historic and Natural Environment
Barrack Street
Warwick
CV34 4TH
Tel: 01926 412 197
Email: hba@warwickshire.gov.uk

TYSOE (UPPER & LOWER)



Grassland 1km Connectivity



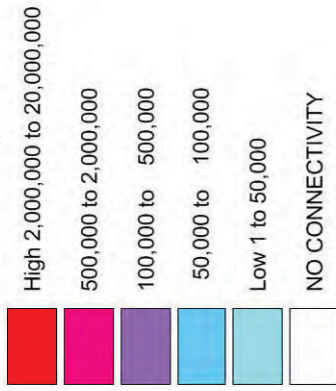
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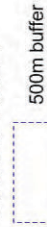
TYSOE (UPPER & MIDDLE)



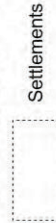
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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