

Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Site Assessment: Hampton Lucy

Designated sites:

Status Name	Area in hectares	Grid ref.	Description
LWS River Avon	352.12	SP2661	Water courses and water bodies
LWS potential sites:			
Hampton Lucy Escarpment	25.57	SP2558	Mixed habitats
Chalcote Park	104.9	SP2556	Mixed habitats

Key Target Notes

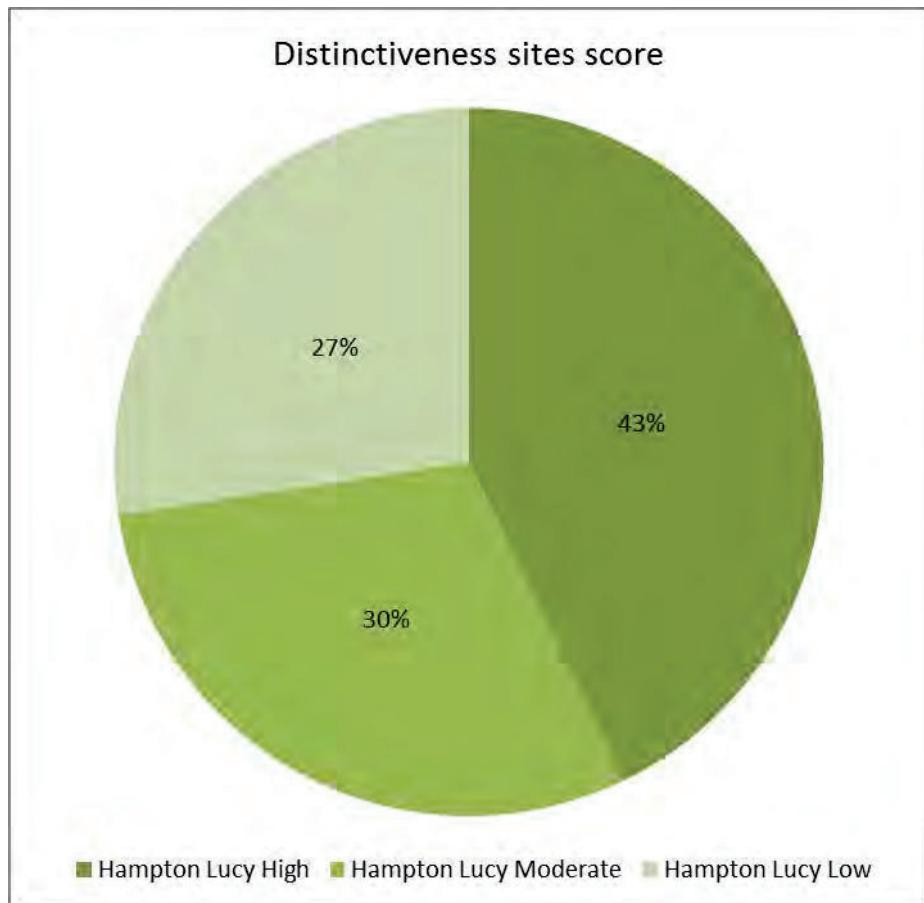
- SP25n3 – Hampton Lucy Escarpment mixed habitat
- SP25 – Charlecote Park mixed habitat

Habitat Description

The broad leaved semi-natural woodlands and parklands associated with Charlecote Park are the most distinctive habitats, together with the Hampton Lucy Escarpment provides a large expense of mixed habitat incorporating semi-natural woodland and scrub. No areas of semi-improved grasslands have been recorded in the area. Charlecote Park grasslands have been classified poor semi- improved or improved, while the grasslands on the escarpment have scrubbed over.

The River Avon provides an important connection through these sites.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	9	6.75	27
A31 Broad-leaved parkland/scattered trees	2	29.93	6
B5 Marsh/marshy grassland	1	0.16	3
G1 Standing water	5	1.91	15
G2 Running water	7	0.44	21
Sub Total	24	39.18	72
Moderate			
A112 Broad-leaved plantation	15	2.06	30
A21 Dense/continuous scrub	3	0.11	6
A22 Scattered scrub	1	1.23	3
B6 Semi-improved neutral grassland	4	12.88	8
J112 Allotments	2	0.46	4
Sub Total	25	16.74	51
Low			
A132 Mixed plantation	1	0.19	1
A4 Recently felled woodland	1	0.16	1
B4 Improved grassland	14	36.95	14
C31 Tall ruderal	6	3.15	12
J11 Arable	4	115.37	4
J12 Amenity grassland	20	5.20	40
Sub Total	46	161.03	72
Totals	95	216.95	195



Geological Description

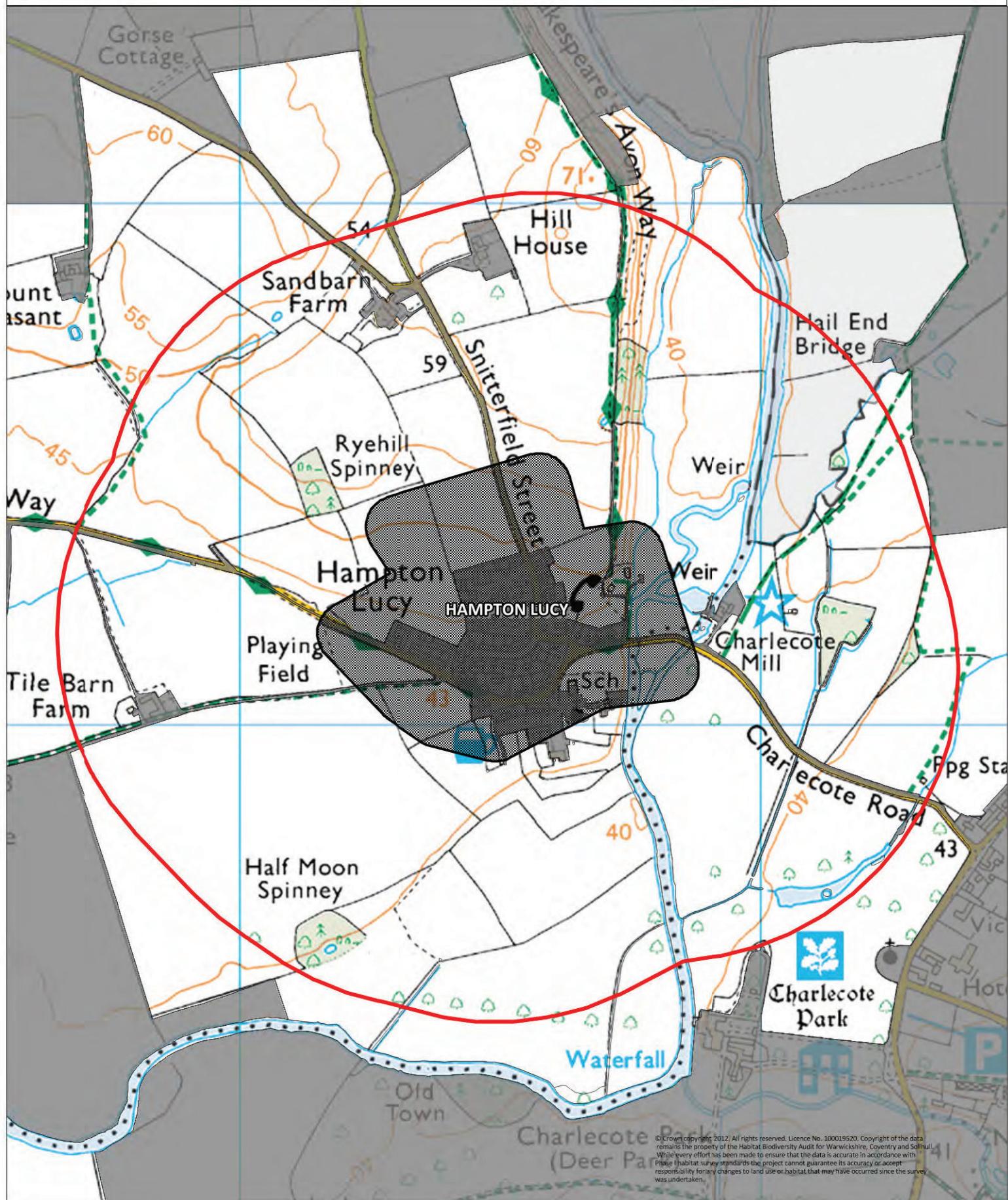
Hampton Lucy is of considerable potential for its locally occurring river terraces, made up of unconsolidated sands and gravels. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

Grass snake, otter plus the bat species of common and soprano pipistrelle, brown long-eared, noctule, a myotis species and an indeterminable species have been recorded in the settlement area. In the wider area there are additional records of badger, brown hare and the rare plants of musk stork's bill, galingale, prickly poppy, common spike-rush brookweed and cornflower. There are also the additional bat species of brown long-eared, whiskered/brandts, noctule and serotine.

Recommendations for Further Survey

- Hampton Lucy Escarpment

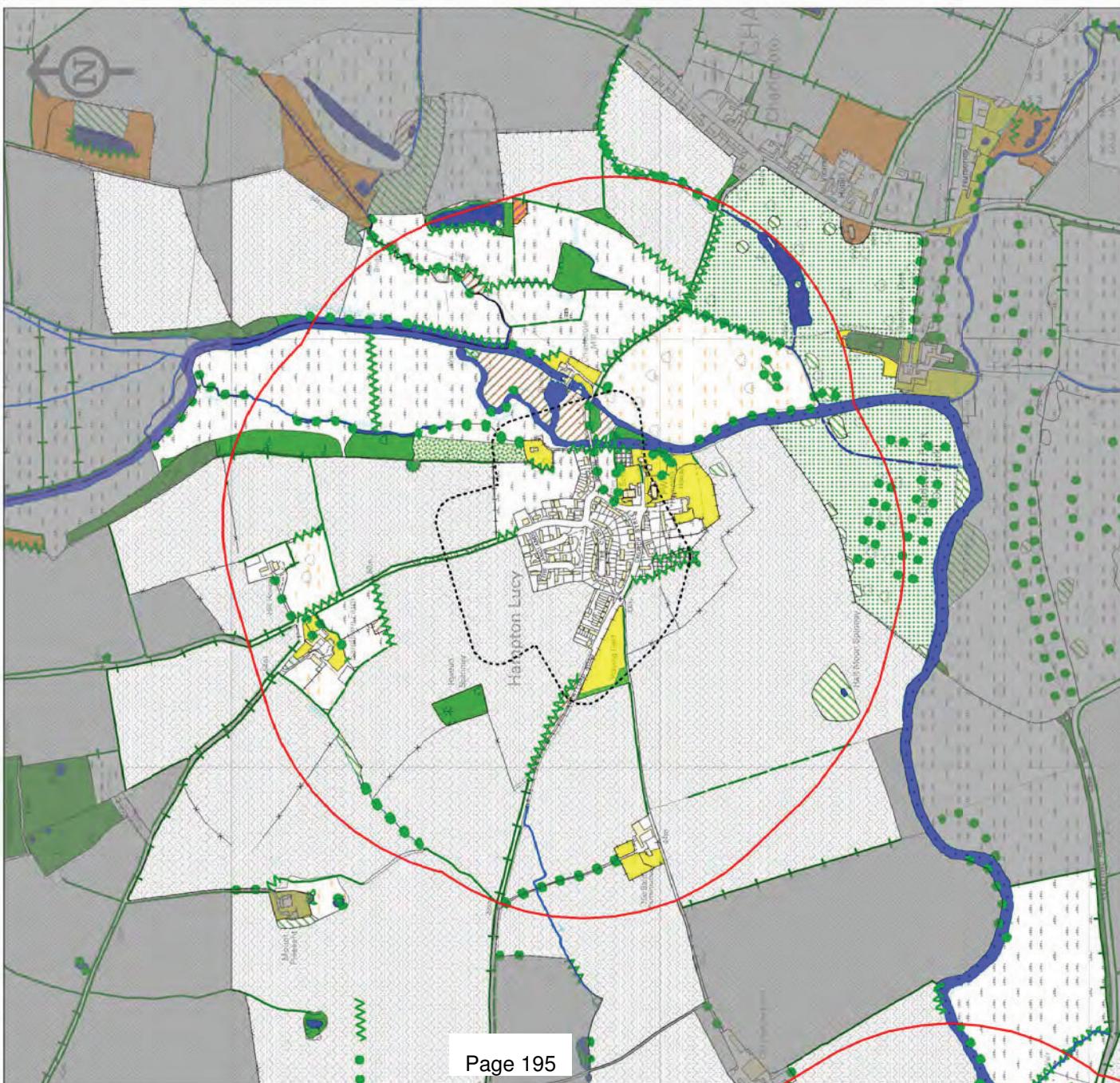


2.1 SQKM

Settlements
[Shaded square] Settlements

500m Buffer
[Red outlined square] 500m Buffer

HAMPTON LUCY



PHASE 1 HABITAT SURVEY

A111 (Broad-leaved semi-natural woodland)	C32 (Non-woodland)
A112 (Broad-leaved plantation)	D5 (Dry heath/acid grassland mosaic)
A121 (Coniferous semi-natural woodland)	E11 (Sphagnum Bog)
A122 (Coniferous plantation)	E21 (Acid/neutral flush)
A131 (Mixed semi-natural woodland)	E31 (Valley mire)
A132 (Mixed plantation)	E32 (Basin mire)
A21 (Dense/continuous scrub)	F1 (Swamp)
A22 (Scattered scrub)	F22 (Inundated vegetation)
A31 (Broad-leaved parkland/scattered trees)	G1 (Standing water)
A32 (Coniferous parkland/scattered trees)	G2 (Running water)
A4 (Recently felled woodland)	I21 (Quarry)
A5 (Orchard)	I22 (Spoil)
B11 (Unimproved acidic grassland)	I23 (Mine)
B12 (Semi-improved acidic grassland)	I24 (Refuse tip)
B21 (Unimproved neutral grassland)	J11 (Arable)
B22 (Semi-improved neutral grassland)	J12 (Amenity grassland)
B31 (Unimproved calcareous grassland)	J13 (Ephemeral/short perennial)
B32 (Semi-improved calcareous grassland)	J14 (Introduced shrub)
B4 (Improved grassland)	J36 (Buildings)
B5 (Marsh/marshy grassland)	J4 (Bare ground)
B6 (Poor semi-improved grassland)	
C11 (Continuous bracken)	
C31 (Tall ruderal)	

Linear Features

J23 (Hedge with Trees)	J231 (Native Species Rich Hedge with Trees)
A21 (Linear Scrub)	A3 (Linear Trees)
G1 (Standing Water)	
G2 (Running Water)	
I1 (Inland Cut)	
J21 (Intact Hedge)	
J22 (Defunct Hedge)	
J221 (Native Species Rich Intact Hedge)	
J222 (Defunct Hedge)	

STUDY AREA



OS DEVELOPED LAND USE AREA



Settlements

HAMPTON LUCY



TARGET NOTES
Point

OS DEVELOPED LAND USE AREA
Settlements

STUDY AREA
500m Buffer

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Stratford-on-Avon District Council Ecological Villages Study

Target Notes

Hampton Lucy

sp25n1	Hampton Lucy Mill Island located between River Avon and mill race. A low patch of ground dominated by nettle and cleavers with scattered elder scrub. UPDATED 22/05/2012 MF. As described.
sp25n11	Halfmoon Spinney. No access. A previous survey undertaken in 1983 describes the site as a mixed woodland on a more or less level site with an elder understorey. The site had been grazed and disturbed and the only notable species present was lesser celandine. UPDATED 22/05/2012 MF. No access, viewed from a distance. The woodland is a plantation of ash and oak with occasional scots pine. There appears to be a small pond within the woodland.
sp25n12	Ryehill Spinney. No access. A previous survey undertaken in 1983 describes the site as broad-leaved woodland on a south facing slope with an open canopy and a dense understorey of elder throughout. The ground flora was predominantly lords and ladies. There was box in the southern corner. UPDATED 22/05/2012 MF. No access, viewed from a distance. The woodland is a former plantation dominated by oak and ash with scots pine to the north. There is hawthorn at the woodland edges.
sp25n2	A large mill pond surrounded by tall ruderals dominated by nettles; with occasional purple loosestrife; marsh woundwort and burdock along the banks. The pond is fringed by abundant Schoenoplectus lacustris with frequent Glyceria maxima; Phalaris arundinacea and occasional branched bur-reed and Typha latifolia. Aquatic vegetation include frequent yellow water-lily and occasional arrowhead. A mink was seen beneath the road bridge during the survey.
sp25n3	Hampton Lucy Escarpment. Steep bank with patchy hawthorn; young elm and willow scrub; dense in places with rough semi-improved grassland between mostly Arrhenatherum elatius and Dactylis glomerata with nettles. Near the top of the steepest scrub free areas there are occasional agrimony; black medick and burnet saxifrage. To the north the scrub becomes ash coppice with hawthorn. UPDATED 22/05/2012 MF. Parts of the steep bank are now heavily scrubbed over with hawthorn and occasional elder and elm. Dog rose is also present. In areas scrub free the following additional species were found; meadow vetchling, vetch species, creeping buttercup, creeping cinquefoil, cow parsley, knapweed, lady's bedstraw, red clover, bird's foot trefoil. Agrimony not found. The field to the east is a wet meadow with dominant areas of meadow foxtail, abundant creeping buttercup, dock and occasional cranesbill species. It is cattle grazed and heavily poached. The area to the north which was coppiced ash is now heavily wooded with mature ash and oak and dense hawthorn and elder. ground floraound flora of cleavers, ncow parsley and cowp. There is occasional sycamore, elder and hazel. The long pool at the foot of the embankment contains celery-leaved buttercup, fools watercress, gypsywort and occasional willow. Heron seen.
sp25n5	Charlecote Park. Consists of predominantly improved grassland with abundant Lolium perenne and frequent Cynosurus cristatus; Poa pratensis and occasional Agrostis tenuis. There are many scattered shade trees which are a mix of oak; ash; poplar; horse chestnut; sweet chestnut; lime; beech as well as many exotics. UPDATED 22/05/2012 MF. As described.
sp25n6	Charlecote Park. Consists of predominantly improved grassland with abundant Lolium perenne and frequent Cynosurus cristatus; Poa pratensis and occasional Agrostis tenuis. There are many scattered shade trees which are a mix of oak; ash; poplar; horse chestnut; sweet chestnut; lime; beech as well as many exotics.
sp25n8	Charlecote Park. Consists of predominantly improved grassland with abundant Lolium perenne and frequent Cynosurus cristatus; Poa pratensis and occasional Agrostis tenuis. There are many scattered shade trees which are a mix of oak; ash; poplar; horse chestnut; sweet chestnut; lime; beech as well as many exotics. UPDATED 22/05/2012 MF. As described.



Target Notes

sp25t14

Lake with little aquatic vegetation other than patchy Canadian pondweed in the deeper sections. *Typha latifolia*; *Juncus effusus* and yellow flag dominate the edges with occasional gipsywort. The steep banks are covered by tall herbs; predominantly nettle with occasional hemlock and meadowsweet and scattered bramble; willow and elder scrub. There are two small islands; one of which is covered in willow scrub and the other with nettle; rosebay willowherb and bramble; willow and elder scrub. The site is good for dragonflies with common blue and blue-tailed damsel fly; common darter and brown hawker. UPDATED 22/05/2012 MF. West bank of the lake now covered with hawthorn and bramble scrub with occasional willow and alder. The east bank of dominated but willow and tall ruderal species. To the north of the lake there is mature crack willow. The islands to the south are dominated by willow, alder and silver birch. The south bank is dominated by goat and crack willow and hawthorn with occasional elder and conifer. There is a very small area of marshy grassland at the far south east of the site, fenced off and occasionally grazed by sheep, it contains pond sedge, water dock, yellow iris, cuckooflower, meadowsweet, marsh marigold, soft rush and tufted hair grass.

sp25t15

A small copse of mature oak over elder and hawthorn understorey and a ground flora dominated by nettles. UPDATED 22/05/2012 MF. Remains as described, however there is very little go except patchy nettles, cleavers and ground ivy. There is a dense elder und and many dead oaks.

SP25T19

Semi natural broadleaved woodland (probably originally a plantation) surrounded on three sides by a steep sided wet ditch. Oak and ash dominated with beech. Hawthorn, elder, hazel and holly understorey. Ground flora dominated by nettle, lesser celandine, dock.

sp25t9

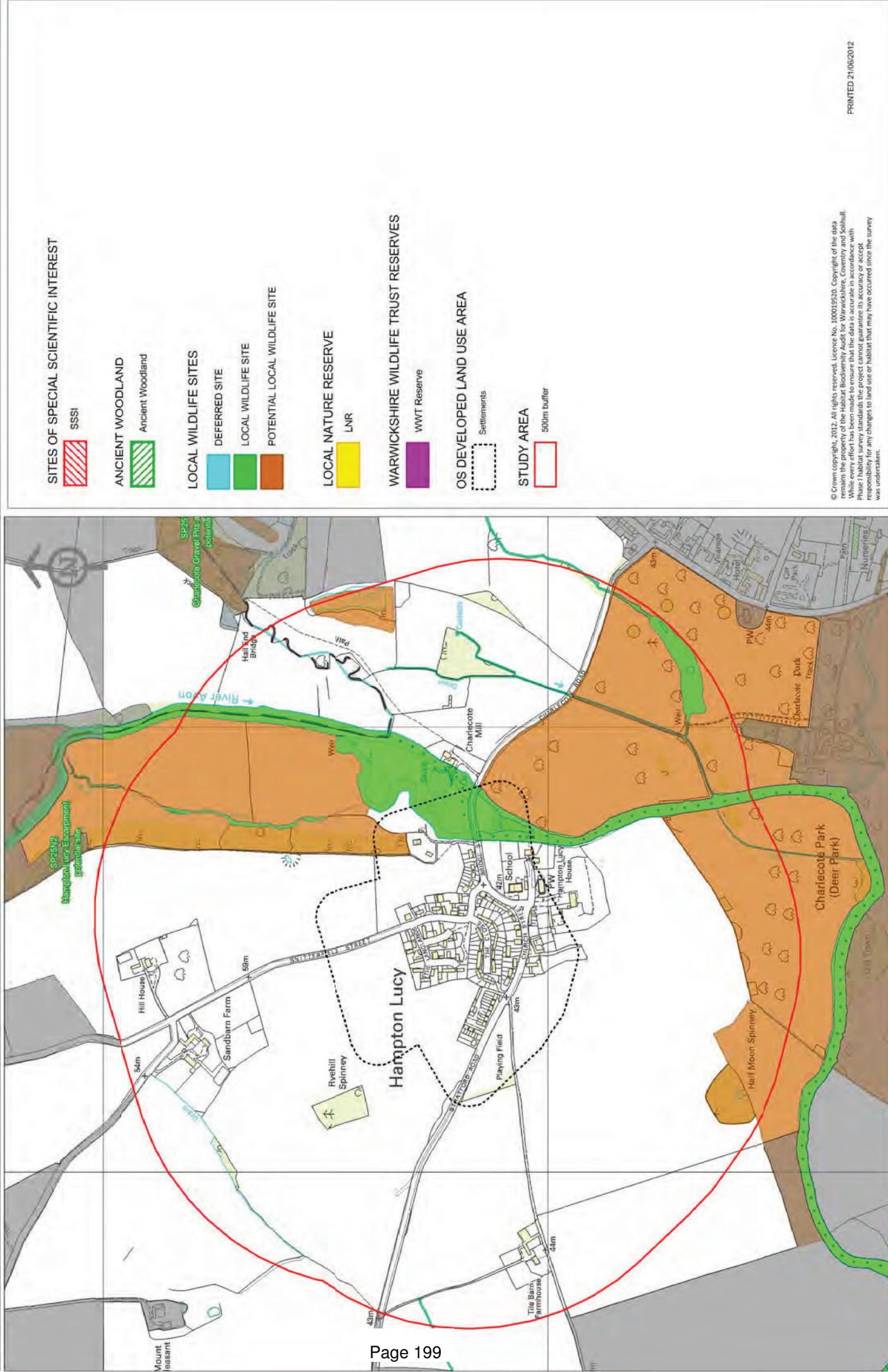
A shallow lake with no aquatic vegetation other than blanket weed; deer grazed up to the water's edge. UPDATED 22/05/2012 MF. Remains a shallow lake formed by the damming of a stream. Mallards and coot nesting. Emergent vegetation includes mint, fools watercress, reed sweet grass, greater pond sedge, hard rush. Swallows and house martins seen feeding over the water. In the grassland surrounding the pool is lesser celandine, field woodrush, creeping buttercup and germander speedwell.



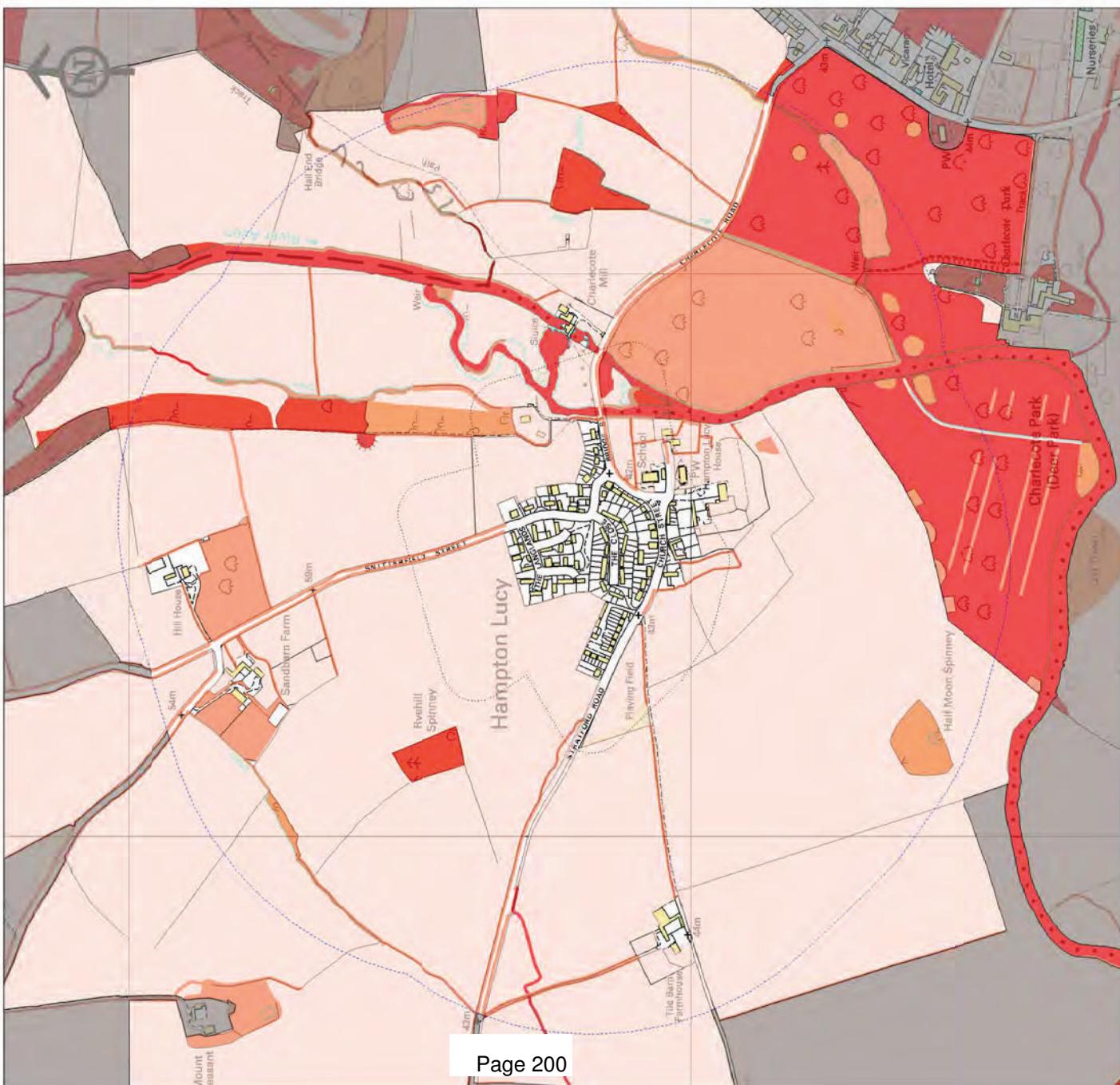
HAMPTON LUCY

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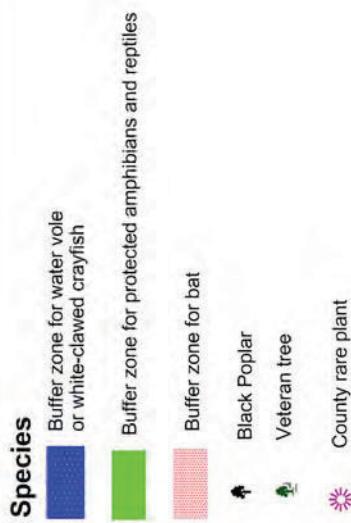




HAMPTON LUCY



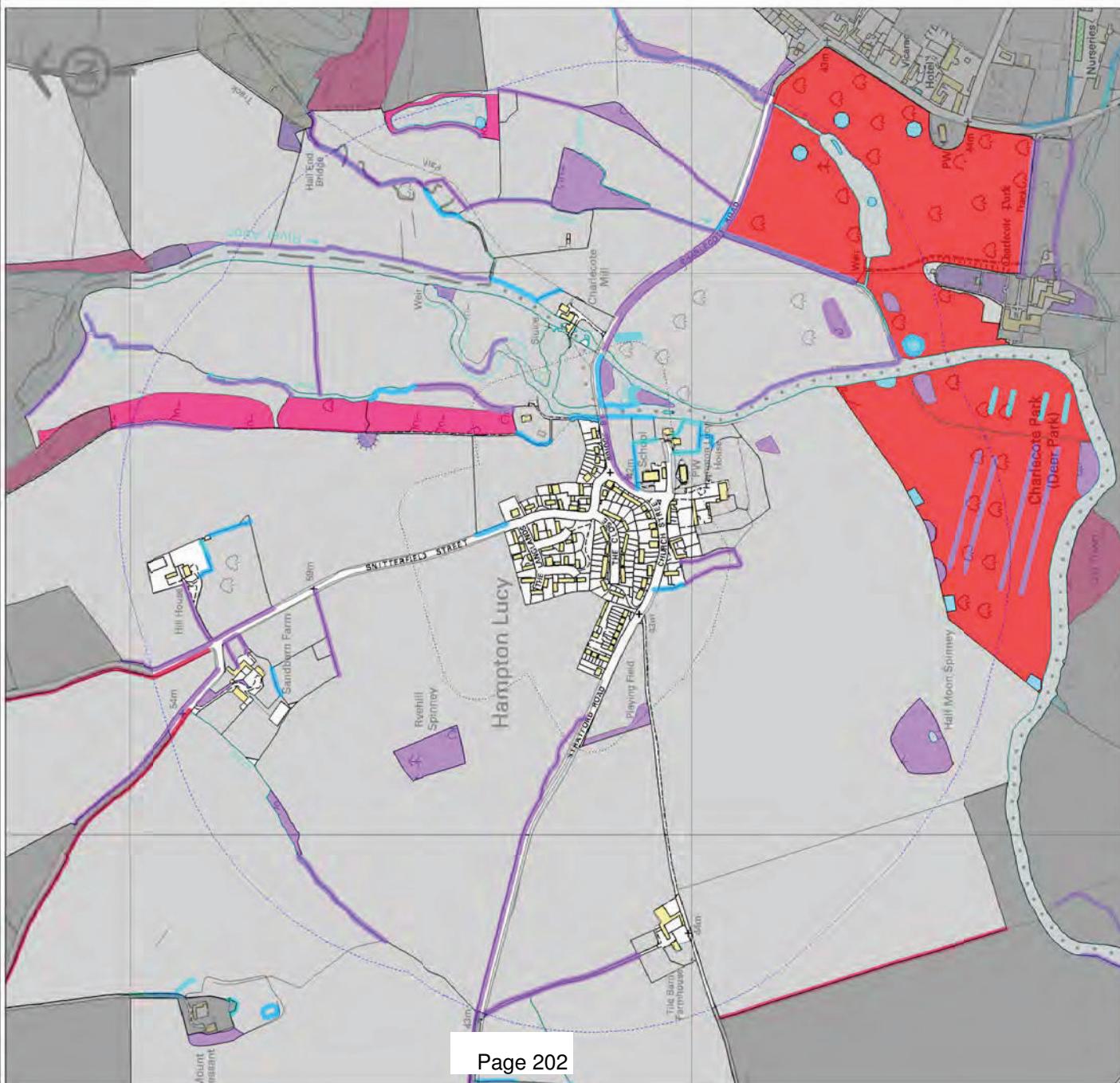
HAMPTON LUCY



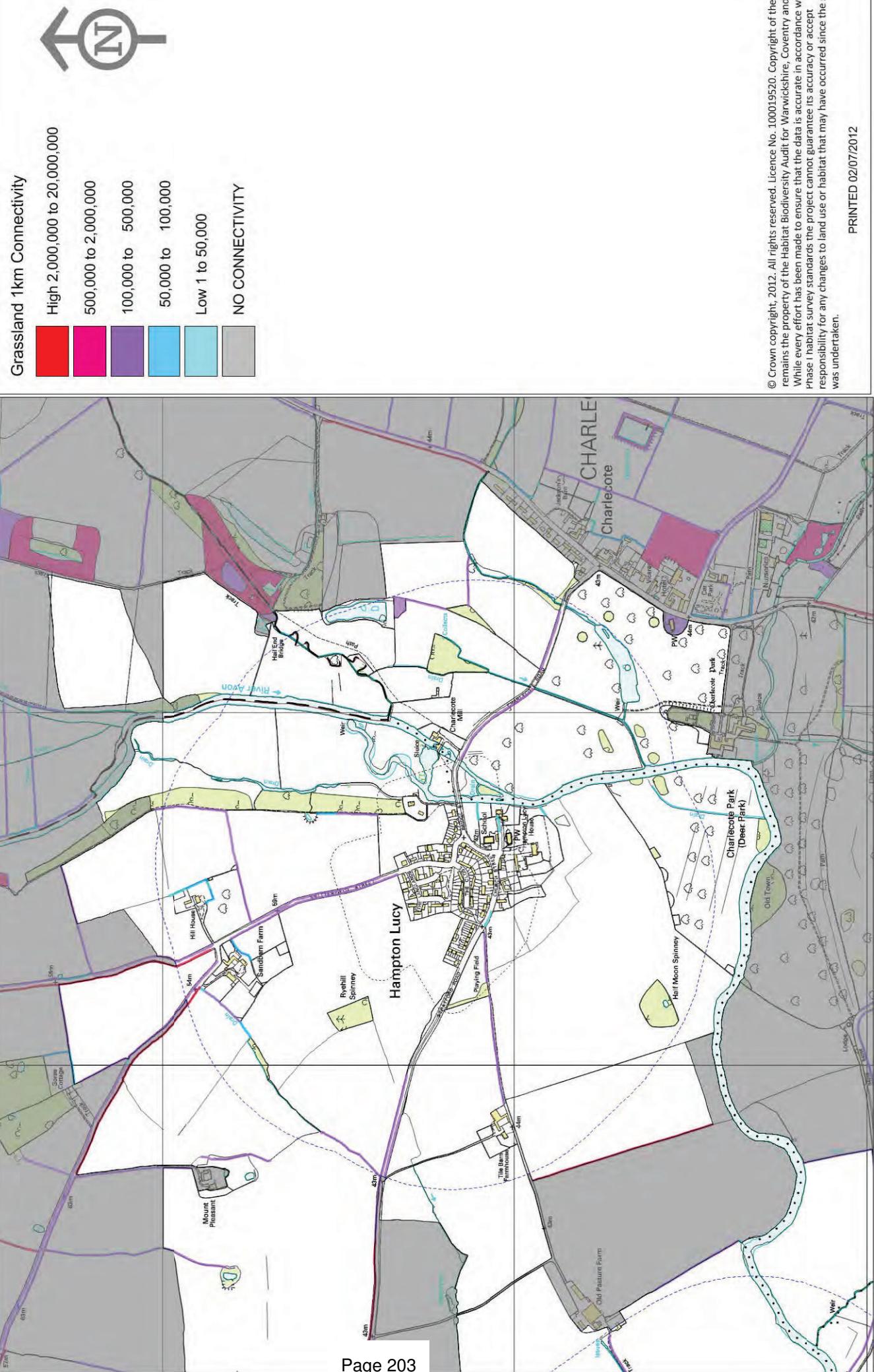
Warwickshire Biological Records Centre



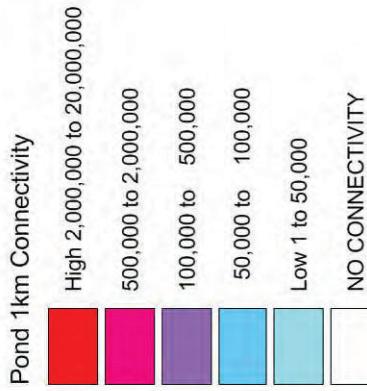
HAMPTON LUCY



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HAMPTON LUCY



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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Harbury

Designated sites:

Status & Name	Area in hectares	Grid ref.	Description
SSSI			
Harbury Railway Cutting	26.74	SP3860	Woodland & scrub
LWS potential site			
Land adjacent to SSSI	24.01	SP3660	Woodland & scrub
WWT Reserve			
Harbury Spoilbank			

Key Target Notes

- SP35z7 – Harbury spoil bank
- SP36q10 – Mature broad-leaf woodland

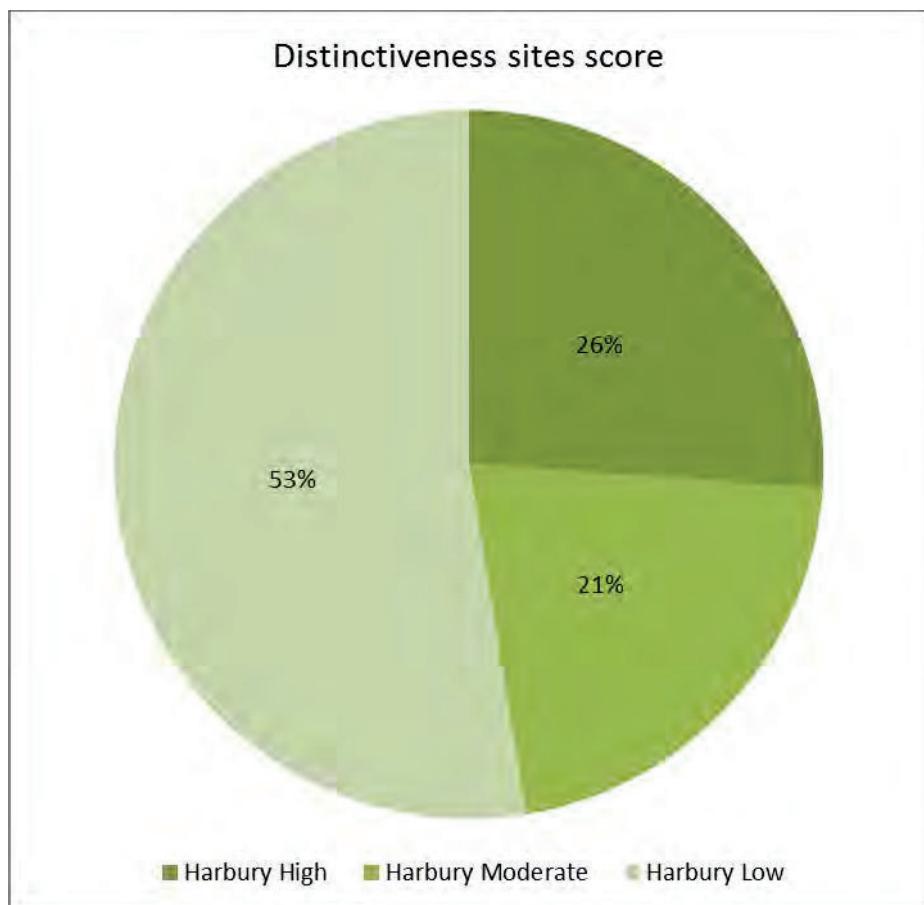
Habitat Description

The habitats associated with the Harbury Railway Cutting SSSI give the high distinctiveness scores characterised by mature broadleaved semi-natural woodland and managed scrubland.

There are also areas of semi-improved grassland and amenity grassland interspersed throughout the settlement. Semi-improved grassland categorised as having moderate distinctiveness indicates areas of grassland that are in decline through over grazing or have become rank with tall grasses and thistles dominating the site.

Just over half the habitats in the survey area have low distinctiveness score; these are associated with agricultural land use including improved grassland and arable fields

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	12	15.12	36
A5 Orchards	2	0.16	6
B22 Semi-improved neutral grassland	7	3.31	21
G1 Standing water	1	0.14	3
Sub Total	22	18.74	66
Moderate			
A112 Broad-leaved plantation	9	3.32	18
A21 Dense/continuous scrub	3	2.34	6
A22 Scattered scrub	1	0.55	3
B6 Semi-improved neutral grassland	13	10.00	26
J112 Allotments	1	1.20	2
Sub Total	27	17.41	55
Low			
A122 Coniferous plantation	2	0.13	2
A132 Mixed plantation	2	0.45	2
A4 Recently felled woodland	1	0.24	1
B4 Improved grassland	71	113.52	71
C31 Tall ruderal	8	1.84	16
J11 Arable	18	138.76	18
J12 Amenity grassland	29	10.93	58
J13 Ephemeral/short perennial	1	0.96	2
J4 Bare ground	1	0.06	1
Sub Total	133	266.90	171
Totals	182	303.05	292



Geological Description

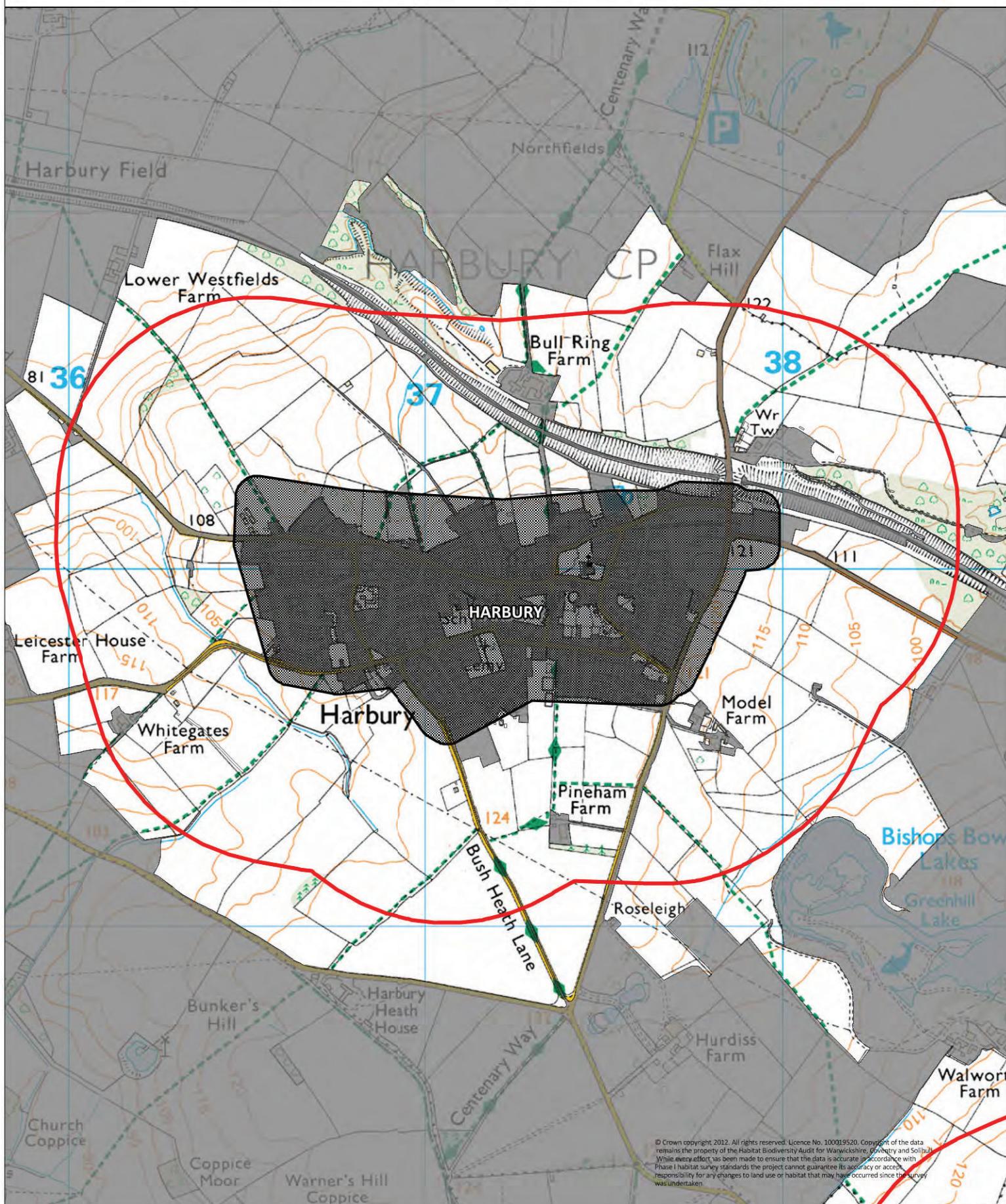
Harbury has considerable geological potential for its early Jurassic geology (Blue Lias Formation - with potential for palaeontological finds) and overlying glacial and fluvial deposits. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

Great crested newt, smooth newt and common lizard plus the bat species of common pipistrelle, noctule, brown long-eared, brandts and an indeterminable bats species have been recorded in the settlement area. In the wider area there are additional records grass snake, adder, badger, brown hare, hedgehog and the butterfly species of dingy and grizzled skipper, small blue and small heath. There are also rare plants including corn marigold rough hawk's-beard, green-winged orchid, strawberry clover, basil thyme, monk's-hood and eyebright recorded in the wider area.

Recommendations for Further Survey

- The Land adjacent to Harbury cutting SSSI



3.6 SQKM

Settlements

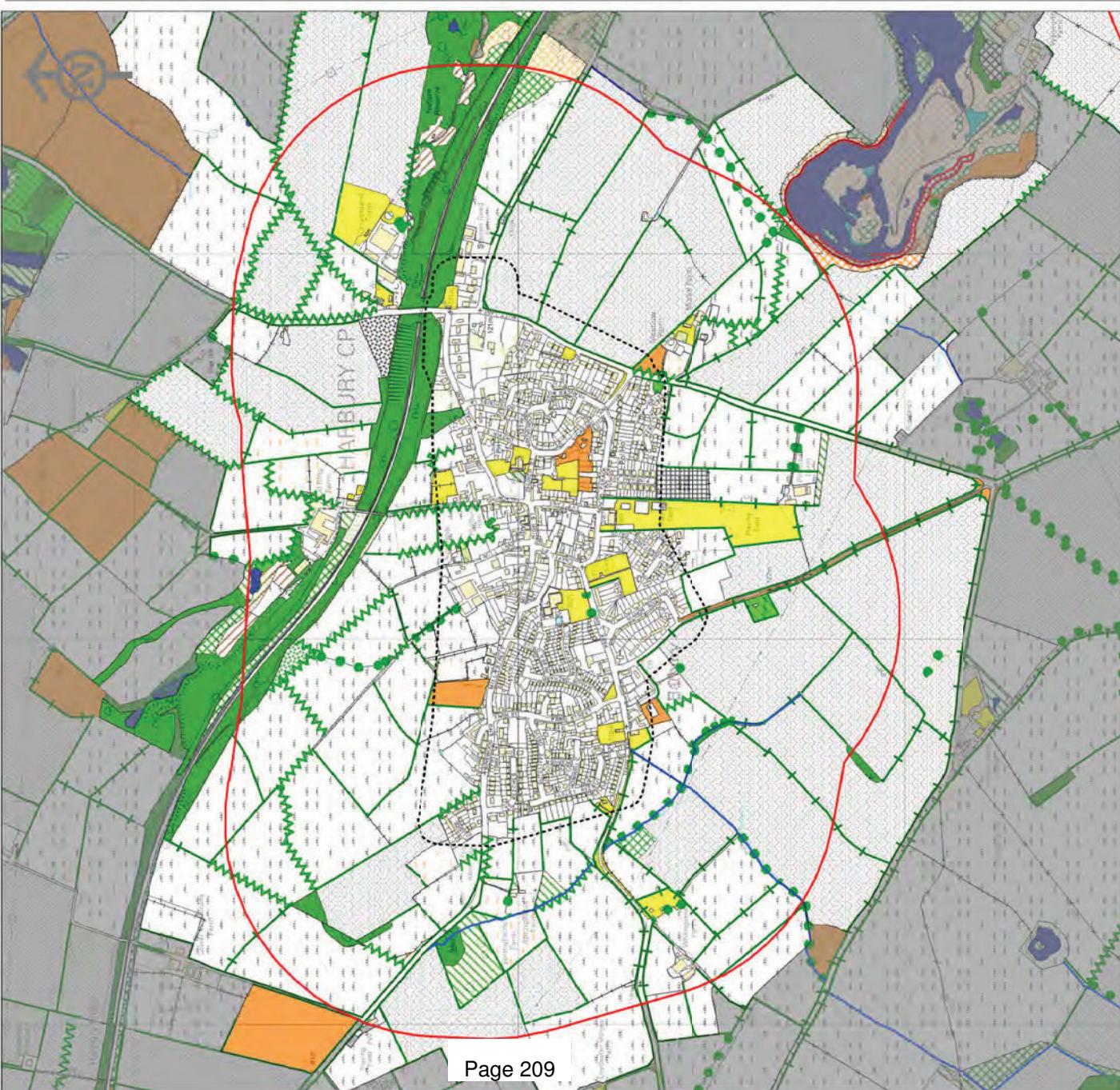


Settlements

500m Buffer



500m Buffer



PHASE 1 HABITAT SURVEY

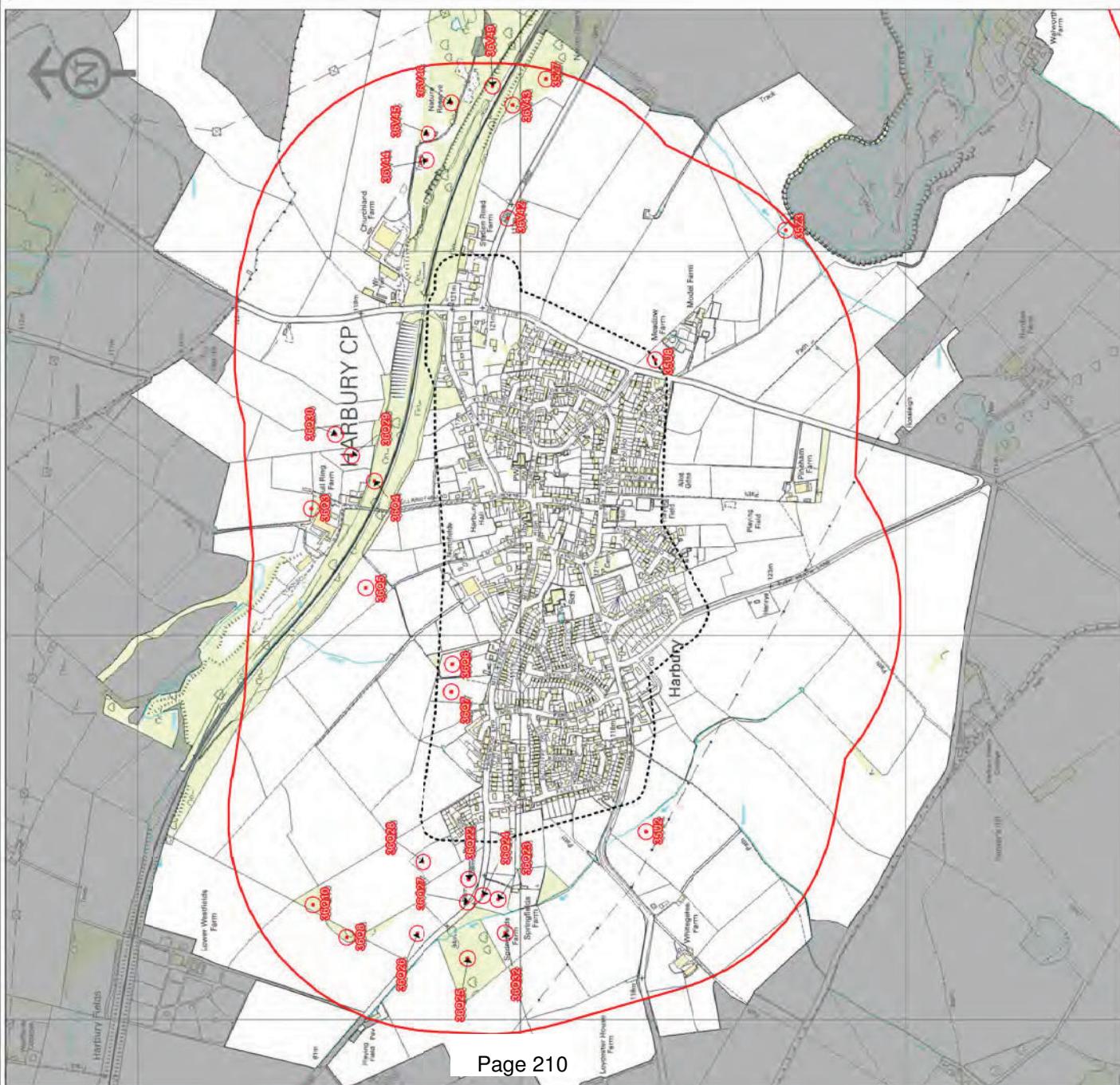
Habitat Types
A111 (Broad-leaved semi-natural woodland)
A112 (Broad-leaved plantation)
A121 (Coniferous semi-natural woodland)
A122 (Coniferous plantation)
A131 (Mixed semi-natural woodland)
A132 (Mixed plantation)
A21 (Dense/continuous scrub)
A22 (Scattered scrub)
A31 (Broad-leaved parkland/scattered 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-woodland)
D5 (Dry heath/acid grassland mosaic)
E11 (Sphagnum Bog)
E21 (Acid/neutral flush)
E31 (Valley mire)
E32 (Basin mire)
F1 (Swamp)
F22 (Inundated vegetation)
G1 (Standing water)
G2 (Running water)
I21 (Quarry)
I22 (Spoil)
I23 (Mine)
I24 (Refuse tip)
J11 (Arable)
J12 (Albermarle)
J13 (Seth-aside)
J14 (Ephemeral/short perennial)
J36 (Buildings)
J4 (Bare ground)

C32 (Non-woodland)	D5 (Dry heath/acid grassland mosaic)
E11 (Sphagnum Bog)	E21 (Acid/neutral flush)
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J36 (Buildings)	J4 (Bare ground)

OS DEVELOPED LAND USE AREA



HARBURY



TARGET NOTES
Point

OS DEVELOPED LAND USE AREA
Settlements

STUDY AREA
500m Buffer

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Target Notes

Harbury

sp35u2	Poor semi-improved grassland containing abundant <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> ; dock; mugwort; nettle; creeping thistle; creeping buttercup with some hawthorn and surrounded by encroaching bramble. UPDATED 22/09/2011 OP. This area now contains dense scrub.
SP35U8	Two small semi-improved neutral grassland meadows at the front of Meadow Farm. Contains ridge and furrow with, common knapweed, lady's bedstraw, red clover and common mallow.
sp35z3	Small remnant semi-improved grassland containing abundant <i>Poa pratensis</i> and <i>Holcus lanatus</i> with frequent cowslip; bulbous buttercup; ribwort plantain; meadow buttercup; hogweed; lesser knapweed; hoary plantain; some common spotted orchid; daisy; yarrow; selfheal and ragwort. Cattle grazed. UPDATED 12/05/2012 MF. Unable to access, no footpath.
sp35z7	Managed scrub which includes different ages and heights of hawthorn. Area contains locally abundant salad burnet; <i>Brachypodium sylvaticum</i> ; selfheal; bramble; bird's foot trefoil; hoary plantain; cowslip; ribwort plantain; lesser knapweed; ladies bedstraw; meadow vetchling ox-eye daisy and common two-blade. Recent scrub clearance has created new rides that have become colonised by hairy violet and common centaury. UPDATED 12/05/2012 MF. Harbury spoil bank Nature Reserve SSSi - Warwickshire Wildlife Trust. Remains as described. Large areas of hawthorn scrub have been recently cleared and consequently there are many areas of bare ground. Additional species of agrimony, burdock and wild strawberry.
sp36q10	Mature broad leaf woodland with frequent sycamore; oak and ash. The understorey contains hawthorn; elder and planted sycamore and horse chestnut. The ground cover is continuous and contains frequent ivy; cleavers; nettle; bramble; wood avens; dock; herb robert; cow parsley; burdock and lords and ladies. UPDATED 13/05/2012 MF. Woodland remains as described with additional species of field maple, cherry, horse chestnut. Ash is dominant. Understory of wild privet, hawthorn, and elder. Ground flora is sparse but includes cleavers, dog violet, ivy, nettle and lords and ladies.
sp36q22	A field of poor semi improved grass with frequent <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> ; <i>Agrostis stolonifera</i> ; <i>Elytrigia repens</i> and creeping thistle; meadow buttercup; dock; <i>Holcus lanatus</i> ; common sorrel; clover and occasional cut leaf cranesbill. UPDATED 13/05/2012 MF. Sheep grazed improved grassland with patches of nettle and creeping thistle. Frequent garrow but other species previously listed not found.
sp36q23	A neglected area of poor semi improved grass. There is frequent <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> ; <i>Agrostis stolonifera</i> ; <i>Phleum pratense</i> as well as frequent dock; nettle; creeping buttercup; common sorrel; red clover and cow parsley with occasional vetch sp. and hogweed. UPDATED 13/05/2012 MF. Unable to access. Viewed from locked gate. Dominant grass appears to be meadow foxtail. Unable to identify and forbs excepting daisy, creeping buttercup.
sp36q24	A semi improved road verge with frequent <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> ; <i>Agrostis stolonifera</i> ; nettle; cow parsley; dock and bind weed and occasional vetch sp. and <i>Equisetum fluviatile</i> . UPDATED 13/05/2012 MF. Hedge and road verge recently cut. Verge less diverse than previously recorded. At time of survey hogweed, field horsetail, ribwort plantain, birslyt ox tongue and self heal dominant.
sp36q25	A young mixed plantation on a hill; it is mainly ash and cherry with less conifers than broad leaf trees. There are grasses and tall ruderals growing between the trees which include <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> ; rose bay willowherb and cow parsley. UPDATED 13/05/2012 MF. Woodland remains as described, however there is a small area of broadleaved semi-natural woodland (either side of a stream) to the north of the site. Ground flora in plantation is dominated by common nettle and white dead nettle. And there is hawthorn and elm in the understory.



Target Notes

sp36q26	A semi improved field dominated by <i>Arrhenatherum elatius</i> and <i>Dactylisglomerata</i> with frequent <i>Cynosurus cristatus</i> ; <i>Agrostis stolonifera</i> ; creepingthistle; birds foot trefoil; clover; daisy; field mouse ear and creepingcinquefoil with occasional spear thistle. UPDATED 13/05/2012 MF. Sheep grazed improved grassland with patches of nettle and creeping thistle.
sp36q27	A semi improved road verge with frequent <i>Holcus lanatus</i> ; <i>Arrhenatherumelatius</i> ; <i>Dactylis glomerata</i> ; occasional <i>Festuca rubra</i> and <i>Carex flacca</i> . Theforbs here include frequent coltsfoot; birds foot trefoil; creeping cinquefoil;bittersweet; black knapweed; red clover; vetch sp and less common goats beard;hedge woundwort; herb robert; yellow rattle and prickly lettuce. There is ahawthorn hedge beside the road which also contains privet; dog rose and blackbryony. UPDATED 13/05/2012 MF. Hedge and road verge recently cut. Hedge remains as described with additional species of ash. At time of survey birds foot trefoil and knapweed dominant but most of these species previously recorded not found.
sp36q28	A semi improved field with scattered trees, it is probably an old orchard, it is now grazed and was viewed from the next field. There is frequent <i>Arrhenatherum elatius</i> , <i>Dactylis glomerata</i> , <i>Agrostis stolonifera</i> , nettle, cow parsley and creeping thistle. [Horse paddock. - PD]29. UPDATED 13/05/2012 MF. Area is an old orchard and new fruit trees have been planted and fenced off. Dominant grass is meadow foxtail. There are patches of nettle and occasional meadow buttercup and cow parsley. Not recently grazed. Hedgerow has been layed.
sp36q29	A poor semi improved field with frequent <i>Dactylis glomerata</i> ; <i>Phleum pratense</i> ; <i>Cynosurus cristatus</i> ; <i>Agrostis stolonifera</i> ; dock; meadow buttercup; clover; and occasional cut leaf cranesbill.
sp36q3	A footpath with a scrub hedge on one side and planted rowan trees eitherside of the path. the grasses and tall ruderals beside the path includefrequent green alkanet; bramble; cleavers; cow parsley; dock; hogweed; groundivy; wood avens; and forget me not. Further down the path the dominant treesbecome mature hawthorn and elder. UPDATED 13/05/2012 MF. No rown trees; ash trees have been planted either side of the foot path.
sp36q30	A poor semi improved field with frequent <i>Phleum pratense</i> , <i>Bromus mollis</i> , creeping thistle, clover and cut leaf cranesbill. [Rank hay field. - PD]31. UPDATED 13/05/2012 MF. Semi-improved meadow. Dominant grasses meadow foxtail and red fescue. Forbs include meadow and creeping buttercup, red cleaver, meadow vetchling, vetch spp. Hedgrow to west contains hawthorn, elm, elder, and ash. Buzzard seen.
SP36Q32	Rank grassland with patches of nettle, creeping thistle, and dock. However, there is also abundant knapweed, birds foot and forget-me-not. There is also possible scabious spp.
sp36q4	Broad leaf semi natural woodland on the railway embankment some parts arevery dense; there is frequent horse chestnut; sycamore; mature hawthorn andelder. There are some grassy clearings and the ground cover at the edge of thewood contains frequent nettle; bramble; ragwort; lesser celandine; cleavers;cow parsley; ivy; bittersweet and garlic mustard. UPDATED 13/05/2012 MF. Dense scrub and woodland with species as previously recorded. There are no clearings.
sp36q5	A semi improved ungrazed field containing frequent <i>Bromus mollis</i> ; <i>Loliumperenne</i> ; hogweed; clover; vetch sp; germander speedwell; field mouse ear;hemlock; black medick and cut leaved cranesbill. UPDATED 13/05/2012 MF. Horse grazed heavily patched field. Unable to access but charactersics of improved grassland.
sp36q6	A poor semi improved field which is horse grazed; it contains frequent <i>Dactylis glomerata</i> ; nettle; bramble; <i>Phleum pratense</i> ; white dead nettle; dock;ribwort plantain; creeping buttercup and occasional cowslip. UPDATED 13/05/2012 MF. Field remains as described, however to the north is being encroached by bramble and there are patches of tall rudreal to the south.
sp36q7	A hay meadow with frequent <i>Phleum pratense</i> , hogweed, creeping buttercup, dock, common sorrel and common mouse ear. [Red clover - PD.]8. UPDATED 13/05/2012 MF. Meadow remains as described with additional species of meadow buttercup, vetch spp. Foothpath goes through meadow. Dominant grasses meadow foxtail and cocksfoot.



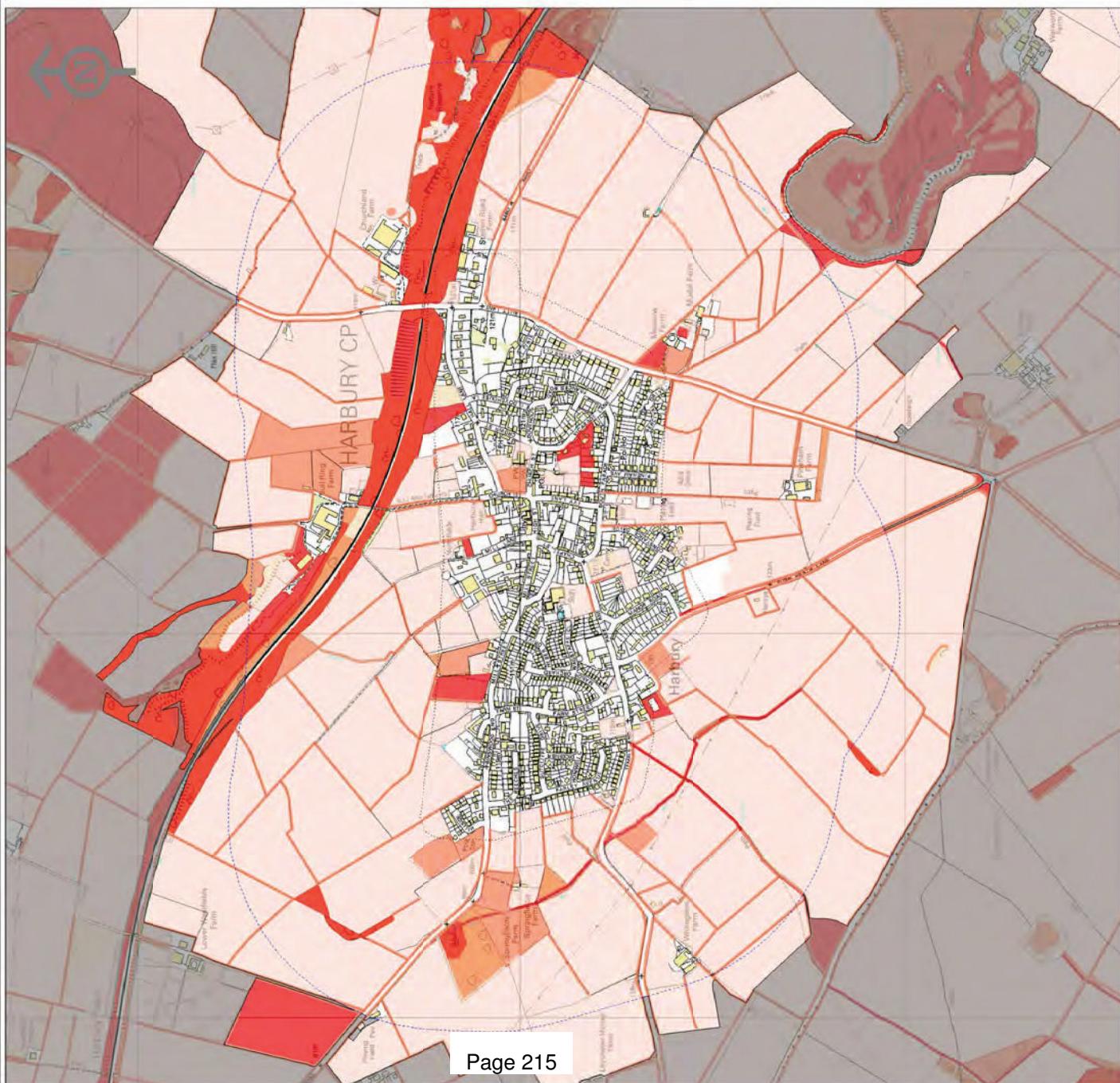
Target Notes

sp36q8	Broad leaf semi natural woodland on a hilltop at the edge of a field there is frequent mature oak with mature hawthorn and blackthorn in the understorey. UPDATED 13/05/2012 MF. Woodland remains as described with additional species of field maple, ash, crab apple, dog rose and horse chestnut. Sparse ground flora of nettle, dock and ground ivy.
sp36v42	Semi improved roadside verge with <i>Phleum pratense</i> ; <i>Dactylis glomerata</i> ; <i>Festuca rubra</i> ; yarrow; common vetch; black medick; hogweed; dandelion; groundivy; ribwort plantain; cinquefoil; garlic mustard; bramble; white deadnettle; nettle; meadow buttercup; sow thistle; cleavers and beaked hawksbeard. UPDATED 13/05/2012 MF. No longer a semi-improved road side verge. Has characteristics of improved grassland with occasional knapweed and ribwort plantain.
sp36v43	Harbury spoilbank nature reserve. An SSSI with extensive areas of dense scrub comprising of dominant hawthorn with dog rose; elder; privet and blackthorn. Pathways through this of semi improved grassland with rich groundflora including bird's foot trefoil; greater plantain; common spotted orchid; clover; creeping thistle; meadow buttercup; nettle and prickly lettuce. UPDATED 13/05/2012 MF. Remains a nature reserve as described. Harbury spoil bank (Warwickshire Wildlife Trust).
sp36v44	A patch of tall ruderals in a neglected area which is used as a scrap yard. This area has frequent <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> ; bramble; nettle; bindweed; cleavers; creeping thistle; spear thistle; teasel; creeping cinquefoil; cow parsley; dock; creeping buttercup and patches of rose bay willowherb with encroaching hawthorn and elder scrub. UPDATED 13/05/2012 MF. Remains as described. Additional species include ash, dog rose and hemlock. Dominant grasses cocksfoot and false oak grass.
sp36v45	Elder and hawthorn scrub which is very dense and contains some mature ash. Beside the path running through the centre of the area there are large patches of nettle and dock with frequent hedge mustard; scentless mayweed; forget me not; cow parsley; <i>Agrostis stolonifera</i> ; spear thistle; mugwort and occasional common poppy. UPDATED 13/05/2012 MF. Area of disturbed ground now dominated by tall ruderal and scrub. Species include ash, budleia, wild privet, elder, dogrose, bramble, honey suckle, hemlock, creeping thistle, teasel, mugwort, common nettle and dock. Where grasses are dominant there is abundant vetch spp. Many scrap vehicles, trailers and caravans abandoned here.
sp36v46	A patch of tall ruderals surrounded by scrub. There is frequent nettle; <i>Arrhenatherum elatius</i> ; bindweed; dock; teasel; clover; rose bay willowherb; scentless mayweed; cut leaf cranesbill; bramble and ribbed melilot. UPDATED 13/05/2012 MF. This target note applies to an area of broadleaved semi-natural woodland dominated by ash, hawthorn, dogrose, honeysuckle, wild privet, elder. Ground flora is very sparse; there is much bare ground with very occasional lords and ladies, common nettle, cleavers and dog violet. Former quarry with many steep sided ditches.
sp36v49	An area of broad leaf semi natural trees on the railway bank which is dominated by ash with occasional willow and some hawthorn and elder scrub. UPDATED 13/05/2012 MF. Remains as described with additional species of budleia. Hawthorn and alder are more dominant than ash. An area of tall ruderal to the north of the woodland in used for scrap metal. This area has diverse flora including St. John's wort, wild strawberry, greater celandine, lady's mantle, bluebell, great mullein, hemlock, burdock.



HARBURY





Settlement Distinctiveness

3: HIGH
2: MODERATE
1: LOW

OS DEVELOPED LAND USE AREA

STUDY AREA

500m buffer

Settlements

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Warwickshire Biological Records Centre

STUDY AREA

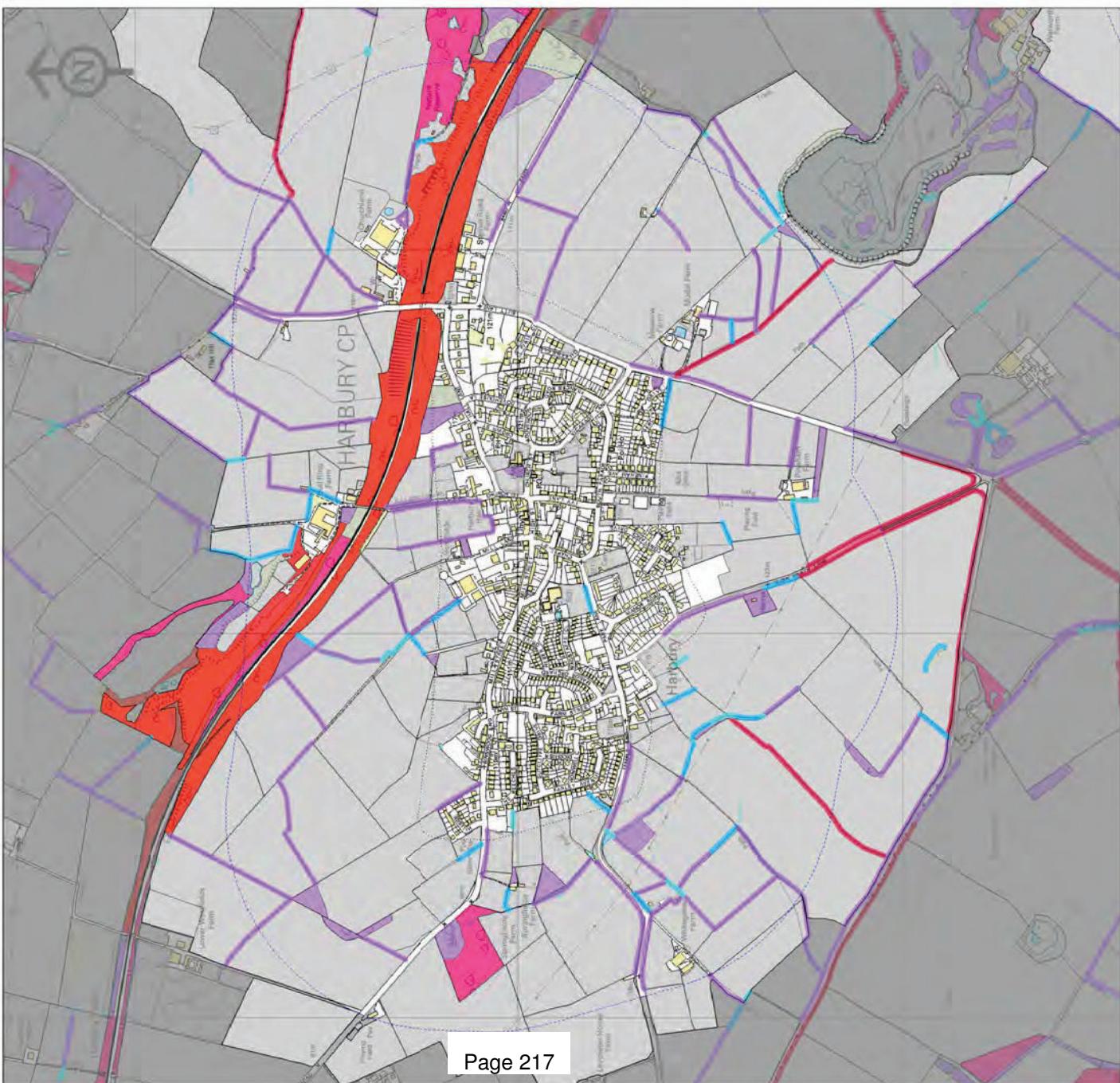
OS DEVELOPED LAND USE AREA

Settlements

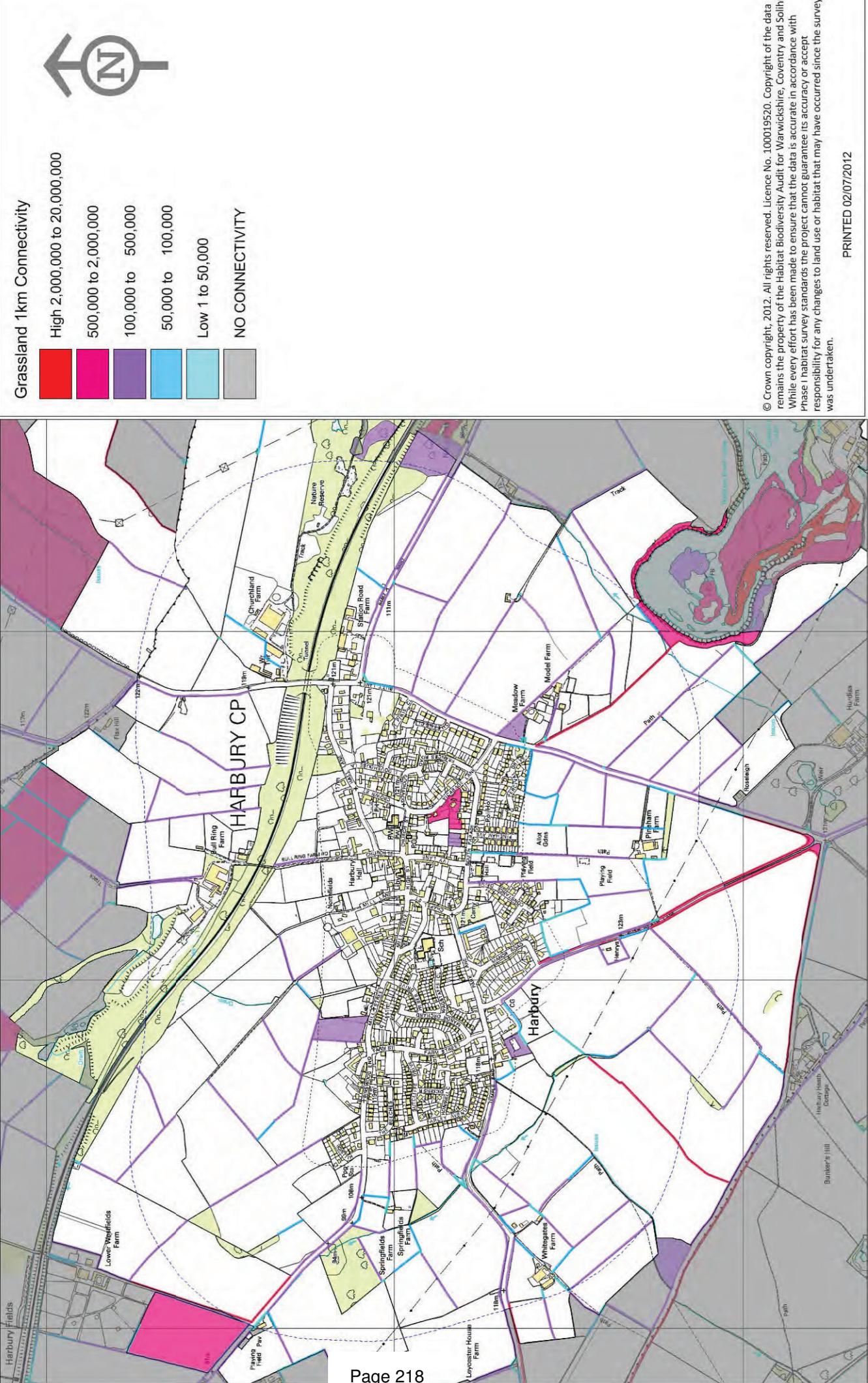
500m buffer

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HARBURY

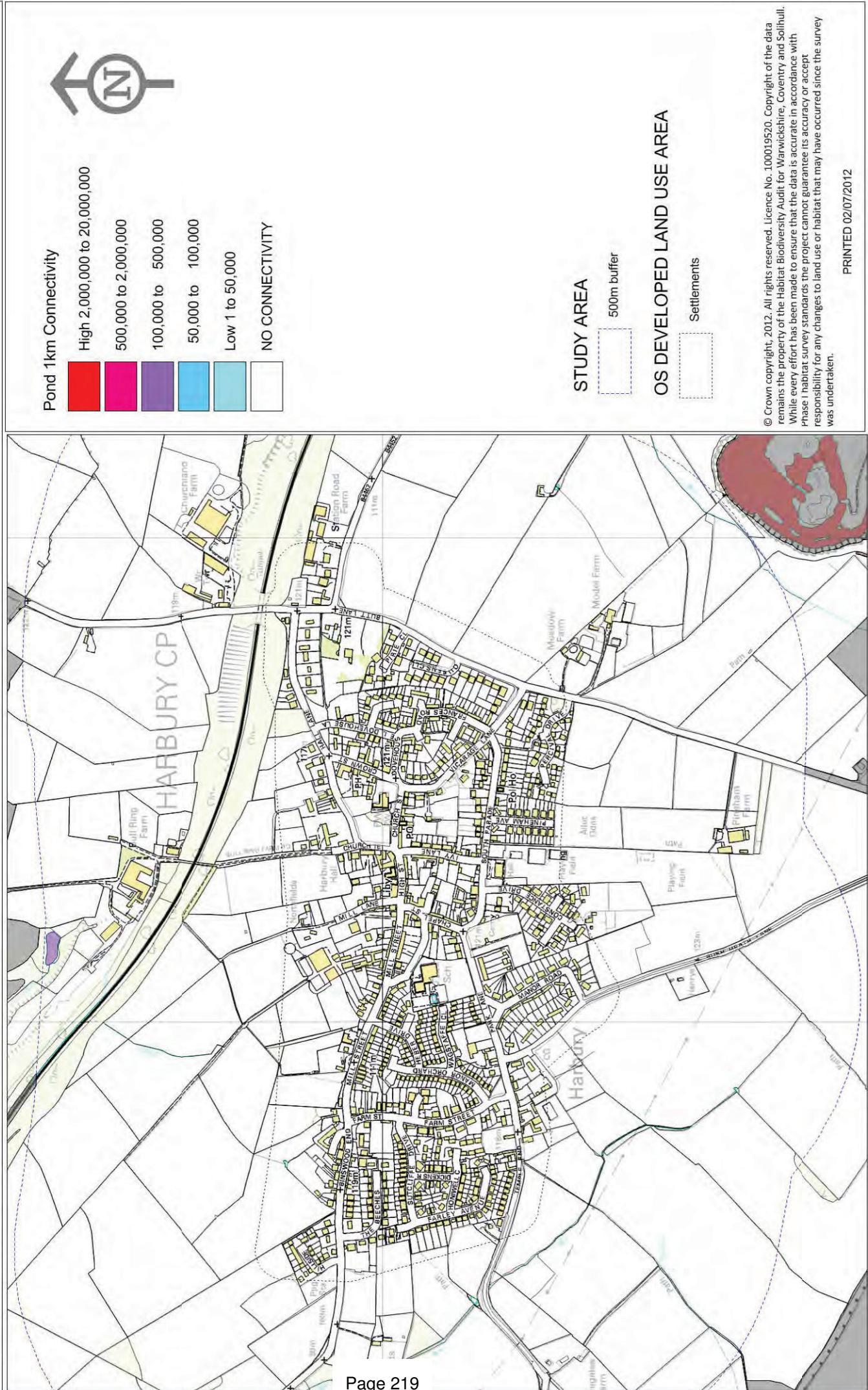


HARBURY



HARBURY

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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Ilmington

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
Local Geological Site			
Humpty Dumpty Field	n/a	SP2042	marlstone rock formation
Local Wildlife Site			
SP24C2 Admington Lane	4.30	SP2064	Semi-natural grasslands & marsh
SP24B5 Ilmington Quarry Fields	0.97	SP2194	Semi-natural grasslands & marsh
SP24B4 Ilmington Quarry Fields	1.66	SP2124	Semi-natural grasslands & marsh
SP24B1 Manor Farm Ponds	1.53	SP2104	Water courses and water bodies
SP24B3 Ilmington Quarry Fields	10.40	SP2074	Semi-natural grasslands & marsh

Key Target Notes

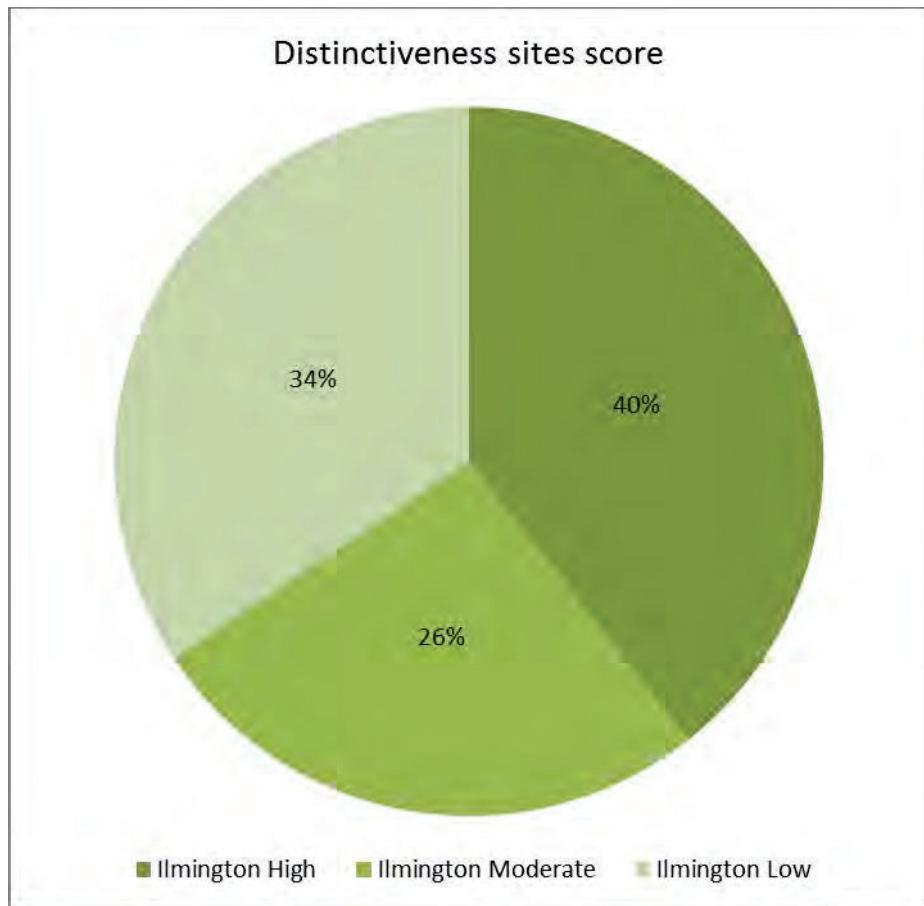
- SP24b25 – Semi-improved grassland pasture
- SP24b23 – Semi-improved grassland pasture with scattered scrub
- SP24b3 - Manor Farm ponds and surrounding grassland

Habitat Descriptions.

Ilmington has a high proportion of semi-improved grassland sites associated with the Cotswold edge limestone escarpment. Many of these fields are associated with former quarry workings which create mixed grassland sites. It is possible that these grassland sites are more semi-improved calcareous grasslands than previously recorded.

Manor Farm ponds are surrounded by semi-improved grassland with nearby church yard and small fields grazed by sheep in centre of village.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	2	0.45	6
A5 Orchard (commercial)	2	0.68	6
B22 Semi-improved neutral grassland	17	15.89	51
B5 Marsh/marshy grassland	1	0.32	3
G1 Standing water	9	0.84	27
G2 Running water	3	0.18	9
Sub Total	34	18.36	102
Moderate			
A112 Broad-leaved plantation	10	3.32	20
A21 Dense/continuous scrub	5	0.99	10
A22 Scattered scrub	6	4.56	18
B6 Semi-improved neutral grassland	11	19.82	22
J112 Allotments	2	0.34	4
Sub Total	34	29.03	74
Low			
A132 Mixed plantation	1	0.47	1
B4 Improved grassland	49	93.99	49
C31 Tall ruderal	4	0.79	8
J11 Arable	12	91.27	12
J12 Amenity grassland	22	11.95	44
J4 Bare ground	1	0.20	1
Sub Total	89	198.67	115
Totals	157	246.06	291



Geological Description

- The Humpty Dumpty Field Local Geological Site

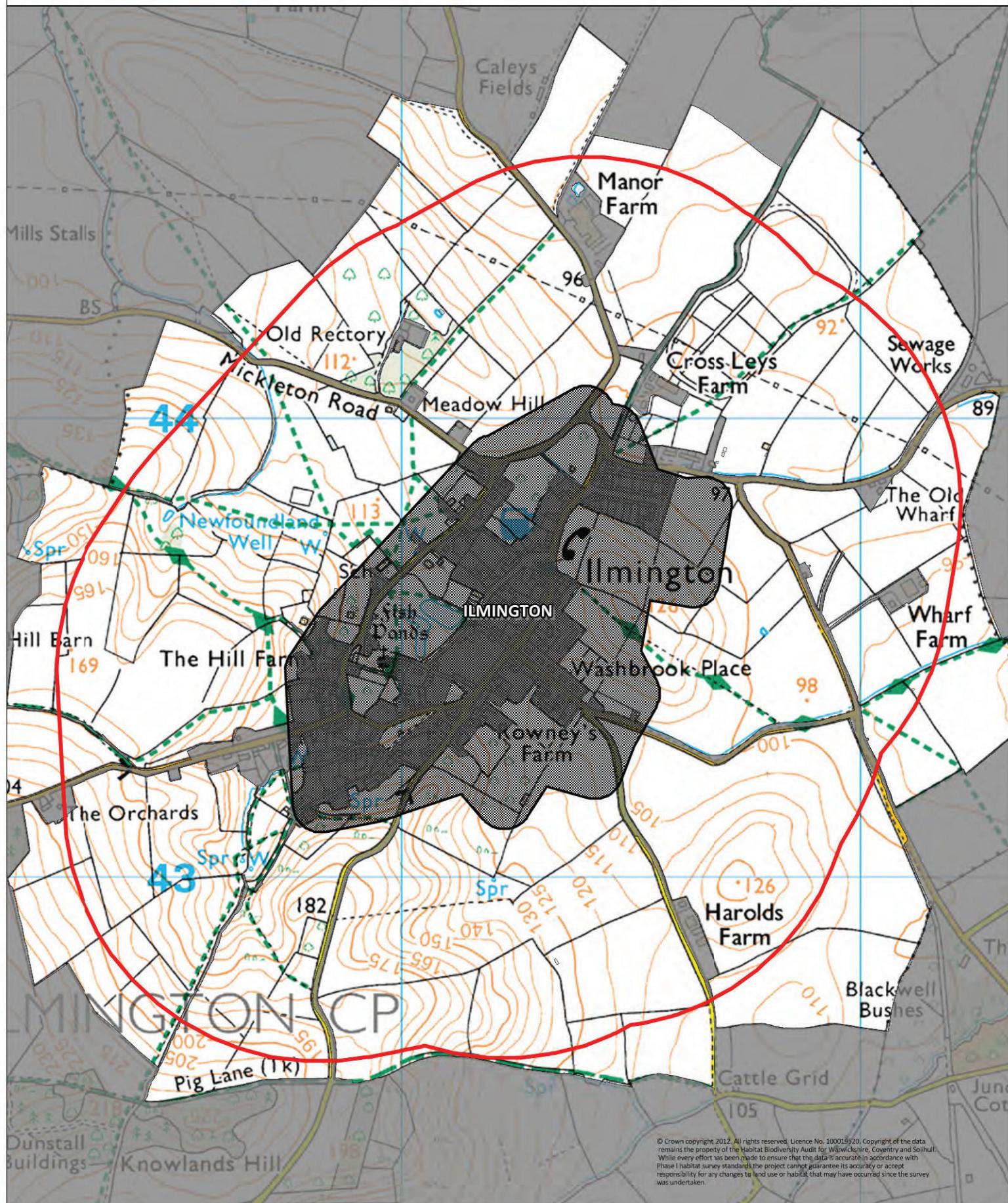
Iilmington has much potential for its early Jurassic geology (principally mudstones of the Lias Group), with possibilities of significant palaeontological finds. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

Small heath butterfly, large-leaved lime, badger and brown hare plus the bat species of common and soprano pipistrelle, brown long-eared, myotis sp., liesers, noctule whiskered/brandts and an indeterminable bats species have been recorded in the settlement area. In the wider area there is grass snake and the additional rare plant records of common spike-rush and corn buttercup.

Recommendations for Further Survey

- Semi-improved grasslands along the Cotswold edge should be surveyed in the summer.



3 SQKM

Settlements



Settlements

500m Buffer



500m Buffer

ILMINGTON

PHASE 1 HABITAT SURVEY

Habitat Types	A111 (Broad-leaved semi-natural woodland)	C32 (Non-woodland)
A112 (Broad-leaved plantation)	D5 (Dry heath/acid grassland mosaic)	
A121 (Coniferous semi-natural woodland)	E11 (Sphagnum Bog)	
A122 (Coniferous plantation)	E21 (Acidineutral flush)	
A131 (Mixed semi-natural woodland)	E31 (valley mire)	
A132 (Mixed plantation)	E32 (Basin mire)	
A21 (Dense/continuous scrub)	F1 (Swamp)	
A22 (Scattered scrub)	F22 (Inundated vegetation)	
A31 (Broad-leaved parkland/scattered trees)	G1 (Standing water)	
A32 (Coniferous parkland/scattered trees)	G2 (Running water)	
A4 (Recently felled woodland)	I21 (Quarry)	
A5 (Orchard)	I22 (Spoil)	
B11 (Unimproved acidic grassland)	I23 (Mine)	
B12 (Semi-improved acidic grassland)	I24 (Refuse tip)	
B21 (Unimproved neutral grassland)	J11 (Arable)	
B22 (Semi-improved neutral grassland)	J12 (Agricultural)	
B31 (Unimproved calcareous grassland)	J13 (Set-aside)	
B32 (Semi-improved calcareous grassland)	J14 (Ephemeral/short perennial)	
B4 (Improved grassland)	J15 (Intercropping)	
B5 (Marsh/marshy grassland)	J16 (Intercropping)	
B6 (Poor semi-improved grassland)	J36 (Buildings)	
C11 (Continuous bracken)	J4 (Bare ground)	
C31 (Tall ruderal)		

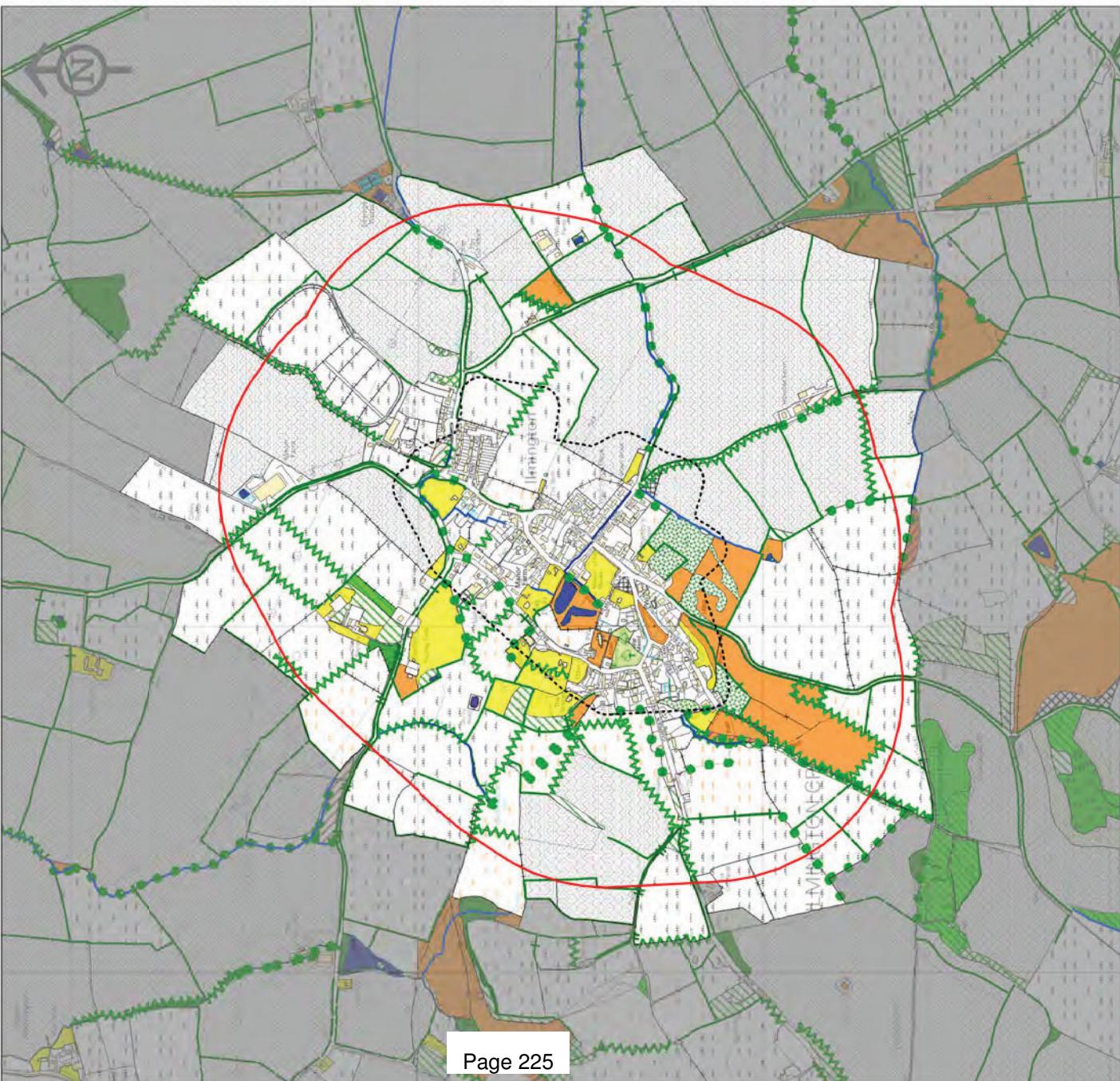
J23 (Hedge with Trees)	J231 (Native Species Rich Hedge with Trees)
J24 (Fence)	
J25 (Wall)	
J26 (Dry Ditch)	
J27 (Boundary Removed)	
J28 (Earth Bank)	

STUDY AREA

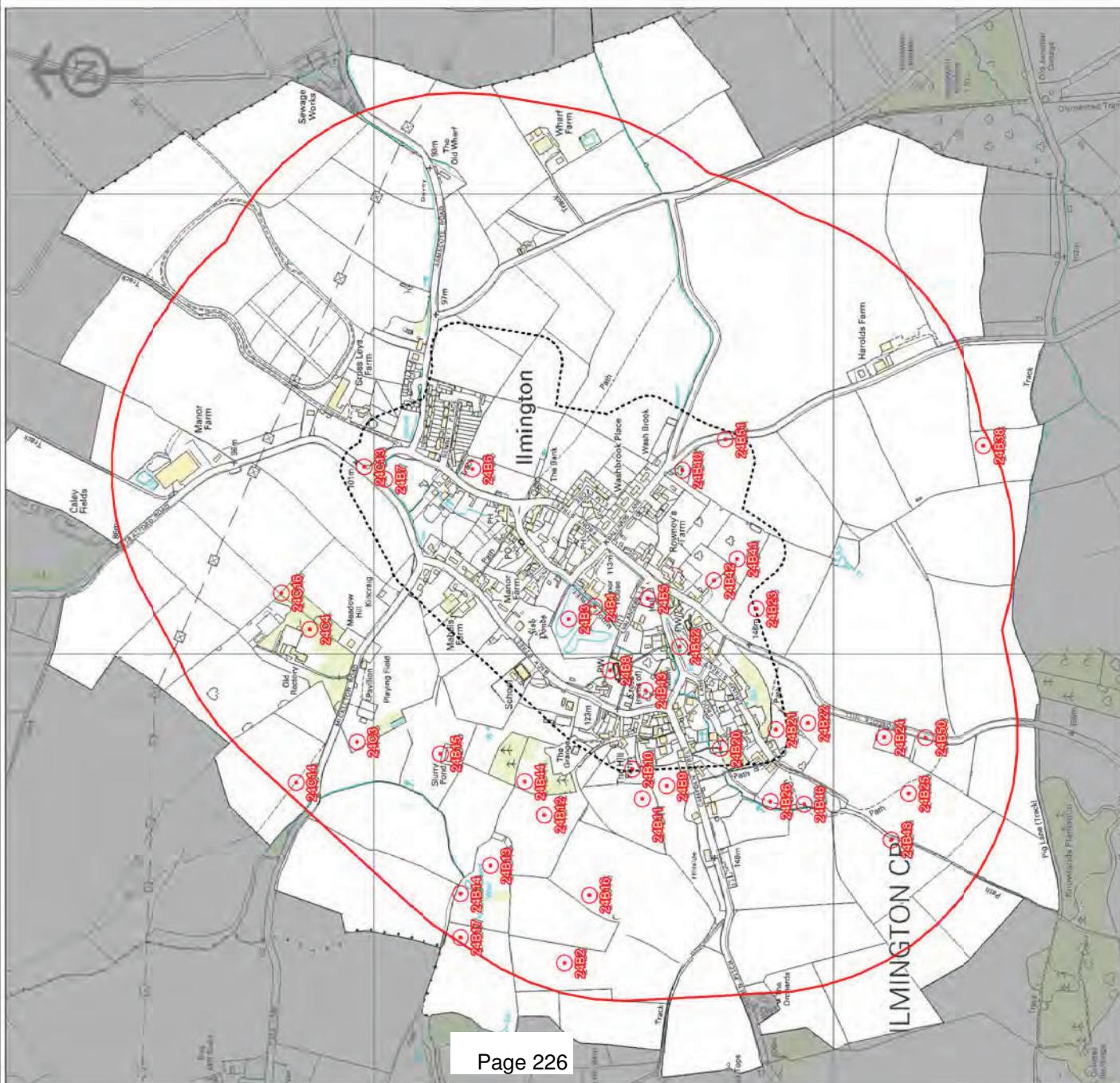
500m buffer



Settlements



ILMINGTON



TARGET NOTES
Point

OS DEVELOPED LAND USE AREA
Settlements

STUDY AREA
500m Buffer

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Stratford-on-Avon District Council Ecological Villages Study

Target Notes

Ilmington

sp24b10	Rough semi-improved grassland dominated by <i>Dactylis glomerata</i> ; <i>Poapratensis</i> ; <i>Holcus lanatus</i> and occasional <i>Agrostis stolonifera</i> and <i>Poa trivialis</i> . There is scattered creeping thistle.
sp24b11	Poor semi-improved grassland possibly on old set-aside with <i>Poapratensis</i> ; <i>Dactylis glomerata</i> ; <i>Hordeum secalinum</i> and occasional <i>Cynosurus cristatus</i> ; <i>Lolium perenne</i> ; <i>Agrostis stolonifera</i> ; <i>Bromus mollis</i> ; <i>Alopecurus myosuroides</i> and <i>Festuca rubra</i> .
sp24b12	Poor semi-improved sheep grazed pasture on a north facing slope with frequent <i>Poa pratensis</i> ; <i>Lolium perenne</i> ; <i>Dactylis glomerata</i> ; <i>Cynosurus cristatus</i> ; <i>Holcus lanatus</i> ; <i>Agrostis tenuis</i> and occasional <i>Anthoxanthum odoratum</i> . Forbs are limited to common mouse-ear and white clover. UPDATED 10/04/2012 by CFT. Recently planted avenue of beech trees either side of foot path ridge and furrow through out field.
sp24b13	Poor semi-improved sheep grazed pasture on a west facing slope with frequent <i>Poa pratensis</i> ; <i>Lolium perenne</i> ; <i>Dactylis glomerata</i> ; <i>Cynosurus cristatus</i> ; <i>Holcus lanatus</i> ; <i>Agrostis tenuis</i> and occasional <i>Anthoxanthum odoratum</i> . Forbs are limited to common mouse-ear and white clover. There are small patches of gorse at the top of the slope.
sp24b14	Small pond with some pollarded willow; <i>Juncus effusus</i> ; <i>Juncus inflexus</i> and broad-leaved pondweed.
sp24b15	Pond surrounded by bramble and tall herb. No access for a more detailed survey.
sp24b16	A sloping ridge covered by hawthorn scrub with ash and elder.
sp24b17	Poor semi-improved grassland dominated by <i>Cynosurus cristatus</i> with <i>Agrostis tenuis</i> ; <i>Dactylis glomerata</i> ; <i>Lolium perenne</i> ; <i>Poa pratensis</i> ; <i>Bromus mollis</i> and <i>Holcus lanatus</i> . There is scattered spear and marsh thistle and frequent white clover. UPDATED 10/04/2012 by CFT. New foundland well.
sp24b2	Large arable field with flax and abundant common poppy. Many skylarks and linnets.
sp24b20	Rough grassland dominated by <i>Holcus lanatus</i> ; <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> and <i>Phleum pratense</i> with large patches of broad-leaved dock and occasional hogweed and creeping thistle.
sp24b21	Overgrown orchard with scattered old apple and pear trees with blackcurrant and bramble over <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> and <i>Dactylis glomerata</i> . UPDATED 10/04/2012 by CFT. Former orchard has now scrubbed over with ash, elder and holly.
sp24b22	Poor semi-improved sheep grazed pasture on a north-west facing slope previously cattle grazed. <i>Poa pratensis</i> ; <i>Dactylis glomerata</i> and <i>Holcus lanatus</i> are frequent with occasional <i>Festuca rubra</i> . Forbs at the base of the slope are sparse; including occasional sorrel; bulbous and meadow buttercup; selfheal and germander speedwell. At the top of the slope these species are more common plus occasional red clover; lady's bedstraw; Autumn hawkbit and bird's-foot trefoil.
sp24b23	Improved field with gorse scrub at the top of an east facing slope; patches of hawthorn and elder mid-slope and scattered creeping thistle at the bottom.
sp24b24	Small field of apparently unmanaged grassland with frequent <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and occasional <i>Festuca rubra</i> with scattered creeping thistle; nettle and ragwort. UPDATED 10/04/2012 by CFT. Field still appears unchanged. No evidence of recent grazing. Tall grasses throughout with occasional bramble, common dock, common nettle, and white dead nettle (<i>L. album</i>). Field is surrounded by scrub hedge.



Target Notes

sp24b25	Semi-improved pasture on the hummocky terrain of an old quarry; with frequent <i>Poa pratensis</i> ; <i>Festuca rubra</i> ; <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and <i>Cynosurus cristatus</i> . Forbs are most common at the top of slopes and include frequent black medick; hoary plantain; Autumn hawkbit; red clover; white clover; selfheal; ribwort plantain with occasional lady's bedstraw; mouse-earhawkweed and locally frequent salad burnet. UPDATED 10/04/2012 by CFT. Cattle grazed semi-improved grassland ridge and furrow possibly field lynchets, old quarry site. Forbs daisy (<i>Bellis perennis</i>), throughout, occasional dandelion (<i>Taraxacum sp</i>), Cowslips (<i>Primula veris</i>), lords and ladies (<i>Arum maculatum</i>), lesser celandine (<i>Ranunculus ficaria</i>). Interesting field, suggest re-visiting late spring/early summer for grasses etc.
sp24b26	Poor semi-improved sheep grazed pasture on a north facing slope with frequent <i>Poa pratensis</i> ; <i>Lolium perenne</i> ; <i>Dactylis glomerata</i> ; <i>Cynosurus cristatus</i> ; <i>Holcus lanatus</i> ; <i>Agrostis tenuis</i> and occasional <i>Anthoxanthum odoratum</i> . Forbs are limited to common mouse-ear and white clover.
sp24b3	Farm Ponds. Two large mature ponds surrounded by willows and alder; tallherbs such as nettle; dock; cow parsley and upright hedge parsley with <i>Postrivialis</i> ; <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> ; <i>Dactylis glomerata</i> and creeping cinquefoil; ground ivy; selfheal and ribwort plantain. The pond edges are particularly rich in marginal and emergent species with abundant greatwillowherb and locally frequent <i>Typha latifolia</i> and <i>Carex riparia</i> .
sp24b38	Poor semi-improved hay meadow with frequent <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> ; <i>Poa pratensis</i> and <i>Lolium perenne</i> and scattered creeping thistle; nettle and broad-leaved dock. UPDATED 10/04/2012 by CFT. Poor semi-improved grassland meadow not grazed at time of visit. Ridge and furrow throughout, with meadow foxtail (<i>Alopecurus pratensis</i>), occasional dandelion (<i>T.sp</i>), creeping buttercup (<i>R. repens</i>), common chickweed (<i>Stellaria media</i>), silver weed (<i>P. anserina</i>) and white dead nettle (<i>L. album</i>) along field edge.
sp24b4	Narrow artificial channel alongside alley with locally frequent <i>Asplenium scolopendrium</i> and <i>Brachypodium sylvaticum</i> .
sp24b40	Small orchard over rough grassland; <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> and <i>Holcus lanatus</i> .
sp24b41	No access but surveyed from the road it appears to be rough grassland with frequent <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> and <i>Holcus lanatus</i> .
sp24b42	Orchard over rough grassland; <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> and creeping thistle.
SP24B43	Small apple orchard with mistletoe (<i>Viscum album</i>) on most of the trees.
SP24B44	Recently planted deciduous woodland consisting mainly of beech with occasional ash.
SP24B46	Small area of marshy grassland. Spring line at the head of small valley. Deep cut narrow valley with mature ash trees. Understory of elder, hawthorn and bramble. Ground flora nettle, common dock and primrose along bank. Soft rush (<i>Juncus effusus</i>), occasional great horsetail (<i>Equisetum telmateia</i>), where grassland becomes drier on slope becomes semi-improved. See target note 26 for description.
SP24B48	Small steep sided valley headed of stream-spring. Scrub on either side with pollarded willow. Steep banks with primrose (<i>P. Vulgaris</i>) and bramble. Gorse on top of bank. Occasional mature ash, cattle grazed in part slope to semi-improved grassland . See target note 26.
sp24b5	Orchard over rank grassland dominated by <i>Holcus lanatus</i> ; <i>Arrhenatherum elatius</i> and <i>Poa trivialis</i> .
SP24B50	Wide grass verge with species rich hedgerow including mature ash, hawthorn, blackthorn, and elder. Verge semi-improved grassland ground flora (garlic mustard (<i>A. petiolata</i>)), white dead nettle (<i>L. Album</i>), lesser celandine (<i>R. ficaria</i>), ground ivy (<i>G. Hederacea</i>), ivy (<i>H. helix</i>), dandelion (<i>T.sp</i>), groundsel (<i>Senicio vulgaris</i>), lesser periwinkle (<i>vinca minor</i>), bramble, broadleaf dock (<i>R. obtusifolius</i>). Also grow garlic/wild onion not in flower, so not confirmed. Worth checking not in flower until summer.



Target Notes

SP24B51	Hedgerow with re-generating common elm from cut stumps with hawthorn and ash.
SP24B52	village green/war memorial unmown at time of visit so possibly maintained for plant interest, with occasional planted bird cherry, ash and horse chestnut, silver birch, daffodils, abundant creeping speedwell (<i>veronica filiformis</i>), primroses, cowslips, dandelions, lesser celandine, creeping buttercup.
sp24b6	Poor horse grazed semi-improved grassland with much <i>Lolium perenne</i> but also <i>Dactylis glomerata</i> ; <i>Alopecurus pratensis</i> ; <i>Phleum pratense</i> ; <i>Cynosurus cristatus</i> and <i>Poa pratensis</i> . Forbs include white clover with frequent redclover; selfheal; creeping buttercup and occasional meadow buttercup; sorrel and patches of nettle; dock and creeping thistle.
sp24b7	Rough grassland of <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> ; <i>Arrhenatherum elatius</i> and <i>Poa trivialis</i> with scattered young copper beech; ash and hawthorn plantation. UPDATED 10/04/2012 by CFT. Area is now a building site for a large house and presumably garden - J12.
sp24b8	Churchyard; recently cut at the time of survey with frequent <i>Poa spp.</i> ; <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and <i>Festuca rubra</i> . Forbs include creeping buttercup; selfheal; germander speedwell; field speedwell; ribwort plantain and occasional hedge bedstraw; rough hawkbit; common dog violet and patches of ground elder. UPDATED 10/04/2012 BY CFT. Avenue of pollarded lime with occasional yew and holly. Primrose, field forget-me-not (<i>Myosotis arvensis</i>), ground ivy (<i>Glechoma hederacea</i>), ribwort plantain (<i>Plantago lanceolata</i>), lesser celandine (<i>Ranunculus ficaria</i>).
sp24b9	Poor semi-improved sheep grazed pasture with frequent <i>Poa pratensis</i> ; <i>Cynosurus cristatus</i> ; <i>Lolium perenne</i> ; <i>Agrostis tenuis</i> ; <i>Dactylis glomerata</i> and occasional <i>Festuca rubra</i> ; <i>Arrhenatherum elatius</i> ; <i>Phleum pratense</i> and <i>Alopecurus pratensis</i> . Forbs are limited to daisy occasional Autumn hawkbit and patches of creeping thistle. UPDATED 10/04/2012 by CFT. Field is on a steep slope with ridge and furrow and anthills throughout.
SP24C13	Semi-improved road verge with smooth meadow grass (<i>Poa pratensis</i>), black medic, cut leaved cranes bill, common vetch, tormentil, red clover, meadow buttercup, ribwort plantain, daisy and ground ivy.
SP24C14	A poor semi-improved grassland with meadow buttercup throughout. Common mouse ear white clover, smooth meadow grass (<i>Poa pratensis</i>) sweet vernal grass (<i>Anthoxanthum odoratum</i>). Common bent (<i>Agrostis capillaris</i>), cocks foot, around field margins and shaded areas close to hedgerows.
SP24C16	meadow hill footpath from road through private property has been blocked off. Area behind house is now a mixed plantation of ash, oak, lime, sycamore, hornbeam and pine species. Exit to manor farm footpath has also been blocked off by hedgerow growing across style. Both sides appear to have been deliberately blocked and sign posts covered.
sp24c3	Small area of young mostly broad-leaved plantation with mature ash and willow in the hedgerow behind. Species planted include cherry; copper beech; ash; oak; birch and occasional cedar over <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> . There is a small area of poor semi-improved grassland behind the tennis courts with <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and frequent creeping buttercup. UPDATED 01/06/2012 CFT. Add: Pond on edge of plantation surrounded by trees here as well.
sp24c4	Scattered broad-leaved plantation with species such as horse chestnut; common lime; birch; beech and occasional oak; ash; sycamore and yew overamenity grassland with dense patches of rhododendron.



WILMINGTON



SITES OF SPECIAL SCIENTIFIC INTEREST

ANCIENT WOODS AND

Ancient Woodland

LOCAL WILDLIFE SITES

REFERRED SITE

LOCAL WINE SITE

POTENTIAL LOCAL WILDLIFE SITE

LOCAL NATURE RESERVE

LNR

WARWICKSHIRE WILDLIFE TRUST RESERVES

LOCAL GEOLOGICAL SITE

LGS

OS DEVELOPED LAND USE AREA

Settlements

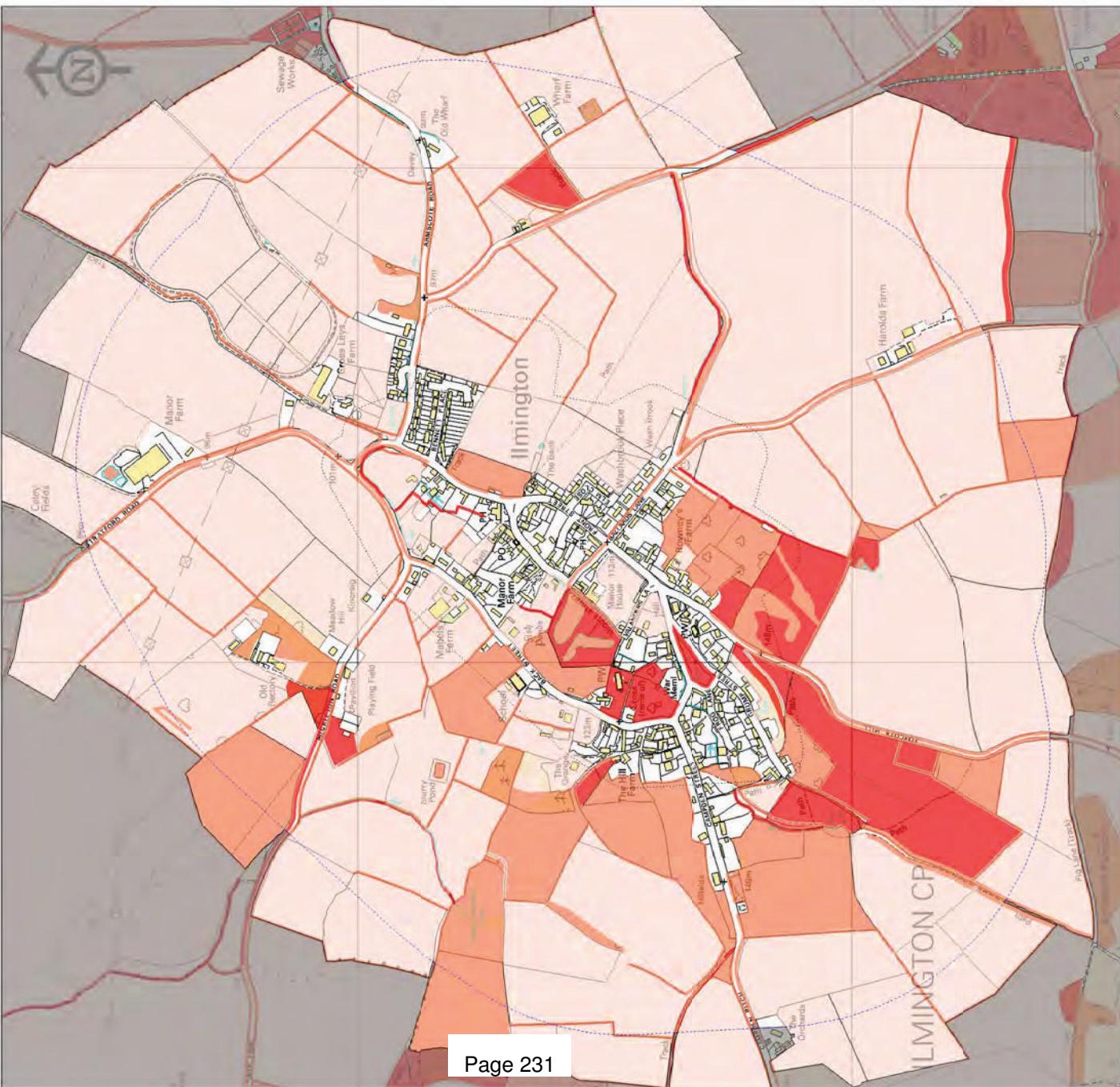
STUDY AREA

500m buffer

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WILMINGTON

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



Settlement Distinctiveness

3: HIGH
2: MODERATE
1: LOW

STUDY AREA

OS DEVELOPED LAND USE AREA

Settlements

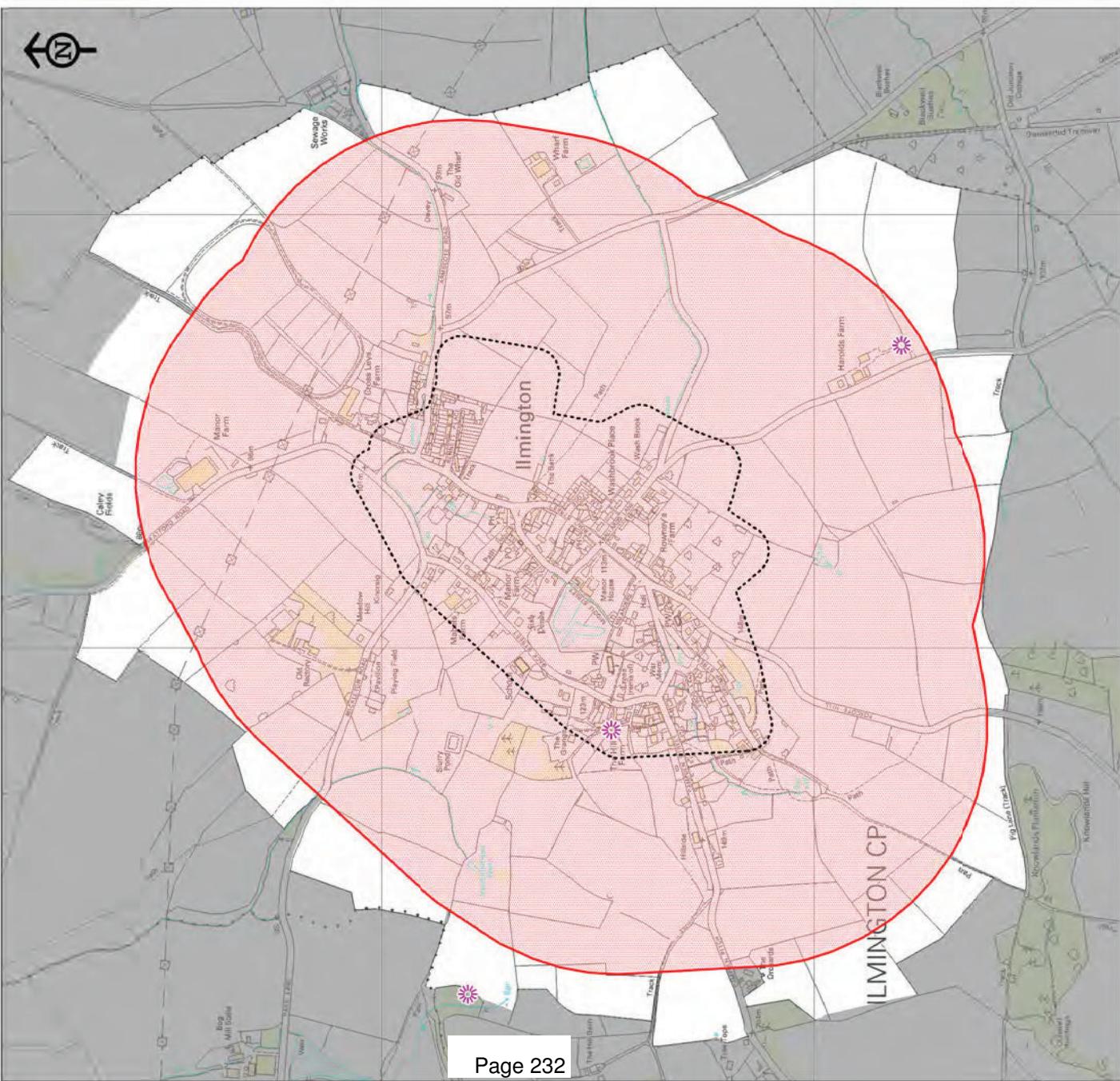
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ILMINGTON

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



ILMINGTON



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

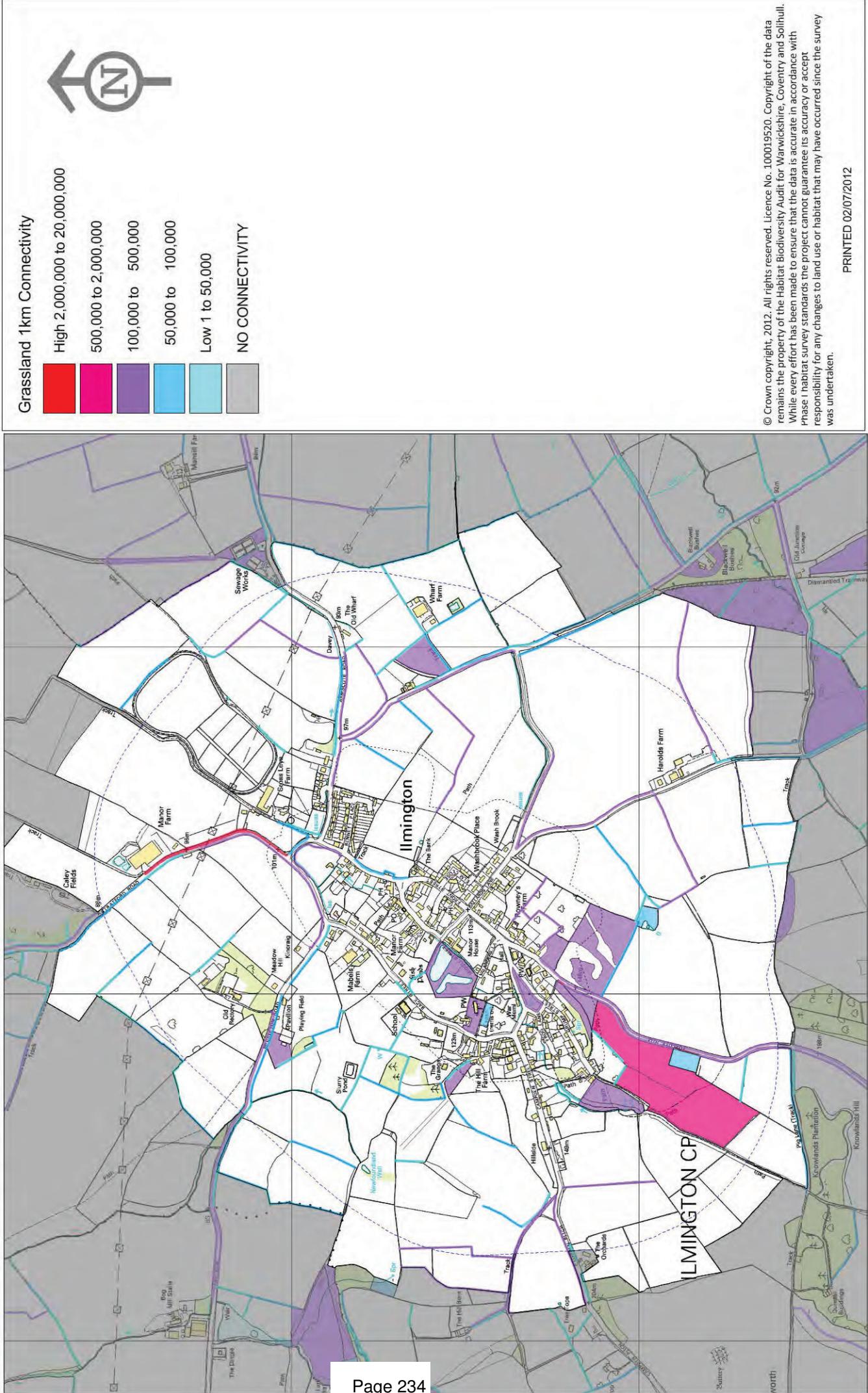
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Settlements

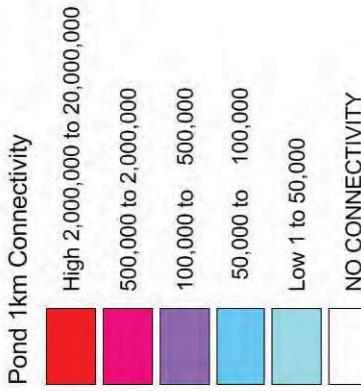
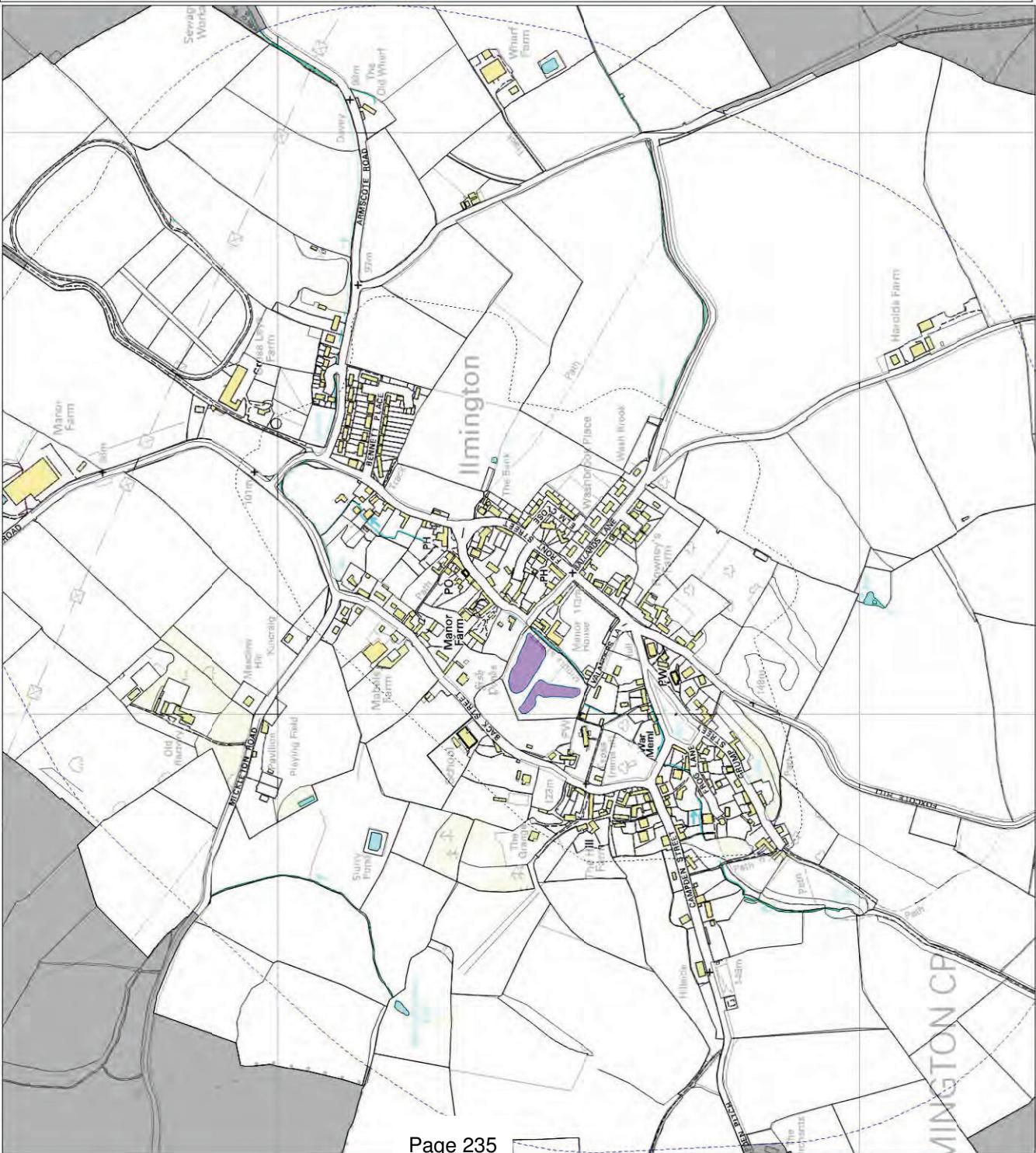
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STUDY AREA

500m buffer

OS DEVELOPED LAND USE AREA

Settlements

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