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11537: Land at Lower Bullingham (The Southern Urban Expansion), Herefordshire

BRIEFING NOTE: BIODIVERSITY NET GAIN ASSESSMENT

INTRODUCTION

1. Ecology Solutions was commissioned by Bloor Homes Ltd. in May 2023 to undertake a Biodiversity Net Gain Assessment of the proposed development at the Land at Lower Bullingham (The Southern Urban Expansion), Herefordshire.

2. The proposals are for the erection of residential dwellings with associated infrastructure, landscaping, attenuation features and areas of open space (including a country park).

3. This document details the Biodiversity Net Gain Assessment undertaken for the above site, using the DEFRA Statutory Biodiversity Metric.

BIODIVERSITY NET GAIN ASSESSMENT

4. This Biodiversity Net Gain Assessment has been based upon the Lower Bullingham Green Infrastructure Plan (07930-FPCR-XX-ZZ-DR-L-0001-Rev C - GI) for the site, which is included at Appendix 1.

Area-based Habitats

5. Existing habitats within the site include cereal crops, modified grassland, mixed scrub, a singular pond (non-priority), ruderal vegetation, developed land; sealed surface and rural trees. The locations of existing habitats within the Site are shown on Plan BNG1. Condition assessments of the existing habitats and trees within the Site are shown in tables 1 & 2 below.

Table 1. Summary of baseline area-based habitats assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Habitat	Condition Sheet	Condition Assessment		Condition
		Criteria Number	Criteria Achieved (Y/N)	
Arable	Condition Assessment N/A			
Modified Grassland	Grassland Habitat Type (Low Distinctiveness)	A	N	Poor (5 / 7 passed) Failed Criterion A which is essential for moderate condition
		B	Y	
		C	Y	
		D	N	
		E	Y	
		F	Y	
		G	Y	
Mixed Scrub	Scrub	A	Y	Moderate (3/5 passed)
		B	Y	
		C	Y	
		D	N	
		E	N	
Pond (non-priority)	Pond	A	Y	Moderate (5/9 passed)
		B	N	
		C	Y	
		D	N	
		E	Y	
		F	Y	
		G	Y	
		H	N	
		I	N	
Ruderal/Ephemeral (area beneath hedgerows)	Urban	A	N	Poor (1/3 passed)
		B	N	
		C	Y	
Ruderal/Ephemeral	Urban	A	Y	Poor (1/3 passed)
		B	N	
		C	N	
Developed Land; Sealed Surface	Condition Assessment N/A			

Table 2. Summary of baseline trees assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets. Tree numbers/groups are taken from the Arboricultural Assessment (FPCR) dated March 2024.

Tree / Tree Group	Size	A	B	C	D	E	F	Condition	Retained
T4	Small	Y	Y	N	Y	N	Y	Moderate	Y
T5	Large	Y	Y	Y	N	Y	Y	Good	Y
T6	Very Large	Y	Y	Y	N	Y	Y	Good	Y
T7	Small	Y	Y	Y	Y	Y	Y	Good	N
T8	Very Large	Y	Y	Y	N	Y	Y	Good	Y
T19	Medium	Y	Y	N	Y	N	Y	Moderate	Y
T20	Medium	Y	Y	N	Y	N	Y	Moderate	Y
T22	Small	Y	Y	N	Y	N	Y	Moderate	Y
T24	Large	Y	Y	N	Y	N	Y	Moderate	Y
T27	Very Large	Y	Y	Y	Y	N	Y	Good	Y
T28	Large	Y	Y	Y	N	Y	Y	Good	Y
T30	Small	Y	Y	N	N	N	Y	Moderate	Y
T31	Medium	Y	Y	N	Y	Y	Y	Good	Y
T45	Medium	N	Y	N	Y	Y	Y	Moderate	N
T46	Medium	N	Y	N	Y	Y	Y	Moderate	N
T51	Medium	N	Y	Y	Y	N	Y	Moderate	Y
T53	Medium	N	Y	Y	Y	N	Y	Moderate	N
T59	Large	Y	Y	Y	Y	Y	Y	Good	N
T60	Very Large	Y	Y	Y	Y	Y	Y	Good	N
G4	Small	Y	Y	N	Y	N	Y	Moderate	Y
G15	Medium	Y	Y	Y	Y	Y	Y	Good	Y

6. Created habitats include modified grassland, other neutral grassland, traditional orchards, mixed scrub, other woodland; broadleaved, wet woodland, sustainable drainage systems, ponds (non-priority habitat), bioswale, developed land; sealed surface, vegetated gardens and small urban trees. Plan BNG2 shows the proposed habitats within the site.

7. A total of 62 urban trees (not associated with a hedgerow) are also proposed, with all of these trees classified as 'small' as these will be 8-10cm in diameter at the time of planting. When inputting 62 small trees into the DEFRA Statutory Metric, a total area of 0.252ha is automatically calculated by the embedded tree helper within the calculator.

8. Condition assessments of the proposed habitats within the Site are shown in tables 3 & 4 below.

Table 3. Summary of proposed area-based habitats assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Proposed Habitat	Condition Sheet	Condition Assessment		Condition
		Criteria Number	Criteria Achieved (Y/N)	
Modified Grassland	Grassland Habitat Type (Low Distinctiveness)	A	N	Poor (4/7 passed)
		B	N	
		C	Y	
		D	Y	
		E	N	
		F	Y	
		G	Y	
Other Neutral Grassland	Grassland Habitat Type (Medium Distinctiveness)	A	Y	Moderate (5/6 passed) Failed Criterion F as a conservative estimate
		B	Y	
		C	Y	
		D	Y	
		E	Y	
		F	N	
Traditional Orchard	Orchard	A	N	Moderate (6 / 8 passed)
		B	N	
		C	Y	
		D	Y	
		E	Y	
		F	Y	
		G	Y	
		H	Y	
Mixed Scrub	Scrub	A	Y	Moderate (4/5 passed)
		B	N	
		C	Y	
		D	Y	
		E	Y	
Ruderal/Ephemeral (area beneath hedgerows)	Urban	A	N	Poor (1/3 passed)
		A	N	
		A	N	
SuDS	Urban	A	Y	Good (5 / 5 passed)
		B	Y	
		C	Y	
		E1	Y	

		E2	Y	
Pond (non-priority)	Pond	A	Y	Good (9 / 9 passed)
		B	Y	
		C	Y	
		D	Y	
		E	Y	
		F	Y	
		G	Y	
		H	Y	
		I	Y	
Bioswale	Urban	A	Y	Good (5 / 5 passed)
		B	Y	
		C	Y	
		E1	Y	
		E2	Y	
Developed Land; Sealed Surface	Condition Assessment N/A			
Vegetated Garden	Condition Assessment N/A			

Table 4. Summary of proposed woodland habitat (broadleaved and wet woodland) assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Indicator	Good (3 points)	Moderate (2 points)	Poor (1 point)	Score per indicator
Age distribution of trees	Three age classes present	Two age classes present	One age class present	**1**
Wild, domestic and feral herbivore damage	No significant browsing damage evident in woodland	Evidence of significant browsing pressure is present in 40% or less of whole woodland	Evidence of significant browsing pressure is present in 40% or more of whole woodland	**3**
Invasive plant species	No invasive species present in woodland	Rhododendron or laurel not present, other invasive species < 10% cover	Rhododendron or laurel present, or other invasive species > 10% cover	**3**
Number of native tree species	Five or more native tree or shrub species found across woodland parcel	Three to four native tree or shrub species found across woodland parcel	None to two native tree or shrub species across woodland parcel	**3**

Cover of native tree and shrub species	> 80% of canopy trees and >80% of understory shrubs are native	50-80% of canopy trees and 50-80% of understory shrubs are native	< 50% of canopy trees and <50% of understory shrubs are native	**3**
Open space within woodland	10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply	21- 40% of woodland has areas of temporary open space	More than 40% of woodland has areas of temporary open space	**3**
Woodland regeneration[5]	All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth	One or two classes only present in woodland	No classes or coppice regrowth present in woodland	**2**
Tree health	Tree mortality less than 10%, no pests or diseases and no crown dieback	11% to 25% mortality and/or crown dieback or low risk pest or disease present	Greater than 25% tree mortality and or any high risk pest or disease present	**3**
Vegetation and ground flora	Ancient woodland flora indicators present	Recognisable NVC plant community present	No recognisable NVC community	**2**
Woodland vertical structure	Three or more storeys across all survey plots or a complex woodland	Two storeys across all survey plots	One or less storey across all survey plots	**1**
Veteran trees	Two or more veteran trees per hectare	One veteran tree per hectare	No veteran trees present in woodland	**1**

Amount of deadwood	50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	**1**
Woodland disturbance[8]	No nutrient enrichment or damaged ground evident	Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground	More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground	**3**
Condition		Moderate (29/39)		

Hedgerows

9. A total of 19 hedgerows are present within the site consisting of 5 native hedgerows (H5, H7, H18 and H19), 10 species-rich native hedgerows (H1, H2, H3, H4, H6, H10, H11, H14, H16 and H17), 4 species-rich native hedgerows associated with a bank or ditch (H8, H12, H13 and H15) and one ornamental hedgerow (H9). Three lines of trees associated with a bank or ditch are also present within the site, one on either side of Red Brook (TL1 and TL2) and one running intermittently along the east bank of Norton Brook (TL3). All existing lines of trees are to be retained post-development.

10. The condition assessments of existing hedgerows and lines of trees within the Site are shown in tables 5 and 6 below.

Table 5. Existing hedgerows assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Hedgerow No.	A1	A2	B1	B2	C1	C2	D1	D2	Condition
H1	Y	Y	Y	Y	Y	N	Y	Y	GOOD
H2	Y	Y	Y	N	Y	N	Y	Y	GOOD
H3	Y	Y	Y	Y	Y	N	Y	Y	GOOD
H4	Y	Y	Y	Y	Y	N	Y	Y	GOOD

H5	Y	Y	Y	Y	Y	N	Y	Y	GOOD
H6	N	Y	N	Y	Y	N	Y	Y	GOOD
H7	Y	Y	Y	Y	N	Y	Y	Y	GOOD
H8	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H9	Condition Assessment N/A								
H10	Y	Y	Y	Y	Y	N	Y	Y	GOOD
H11	Y	Y	Y	Y	N	N	Y	Y	MODERATE
H12	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H13	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H14	Y	Y	Y	N	Y	N	Y	Y	GOOD
H15	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H16	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H17	Y	Y	Y	Y	Y	Y	Y	Y	GOOD
H18	Y	Y	Y	Y	Y	N	Y	Y	GOOD
H19	N	N	Y	N	Y	N	Y	Y	MODERATE

Table 6. Existing lines of trees assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Line of Trees	A	B	C	D	E	Condition
TL1	Y	N	Y	N	Y	Moderate
TL2	Y	N	Y	N	Y	Moderate
TL3	Y	N	Y	N	Y	Moderate

11. It is recommended that native hedgerows be bolster planted with native species comprising at least 5 different hedgerow species and appropriate management regime introduced. On this basis, hedgerows H7 and H19 are proposed to be enhanced to native species-rich hedgerows in good condition as part of the proposals. Additionally, the proposed planting of trees within the retained hedgerows will further enhance hedgerows H1, H2, H3, H4, H7 and H19 to species-rich hedgerows with trees.

12. While hedgerows H5, H8 and H18 will be lost under the new development, a total of 2.314km of species-rich native hedgerow with trees will be provided along with 0.162km of species-rich native hedgerow as part of the proposals. The locations of the proposed hedgerow are shown on Plan BNG2, while the condition assessment is shown in table 7 below.

Table 7. Proposed hedgerows assessed against the DEFRA Statutory Biodiversity Metric Calculation Tool condition sheets.

Type	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	Condition
Species-rich Native Hedgerow with Trees	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	GOOD
Species-rich Native Hedgerow	Y	Y	Y	Y	Y	Y	Y	Y	N/A	N/A	GOOD

Watercourses

13. As the Norton Brook and Red Brook lie within 10m of the Site boundary, these watercourses were included as part of the Biodiversity Net Gain Assessment. Plan BNG1 shows the extent of the streams that lie within 10m of the Site boundary.

14. Both streams were subject to a River Condition Assessment (RCA) by an accredited Modular River Physical (MoRPh) survey surveyor. Five contiguous MoRPh surveys were undertaken to create MoRPh 5 surveys and this data was combined with a desk study to determine the type and condition of the river. On average, the streams width both fell within the <5m width category and as such, MoRPh module lengths of 10m were used to undertake the assessment.

15. Two subreaches of MoRPH 5 surveys were undertaken along the Red Brook, which therefore equates to a total of 100m of the river's length. As the length surveyed is in excess of 20% of the total river length that lies within 10m of the Site boundary, it is considered that a robust assessment of the river's condition has been undertaken.

16. Three subreaches of MoRPH 5 surveys were undertaken along the Norton Brook, which therefore equates to a total of 150m of the river's length. As the length surveyed is in excess of 20% of the total river length that lies within 10m of the Site boundary, it is considered that a robust assessment of the river's condition has been undertaken.

17. The existing conditions of the Red Brook and Norton Brook were calculated as moderate.

18. Part of this survey includes measuring the dimension of the river channel and while measuring these dimensions it was considered that both the Red Brook and Norton Brook are highly likely to be overdeep. The Guide to Assessing River Condition defines overdeep as:

    "*a* river *channel whose depth relative to its width suggests that the bed has been incised/dredged and/or the bank tops have been raised with the result that flood flows are less likely to connect with the bank tops and floodplain than if the channel cross-profile were unmodified*."

19. The guide also states that:

    "*River shape is used to assess the likelihood of a surveyed channel being sufficiently overdeep to adversely affect its hydrological/ecological lateral connectivity:*

    If River shape has a value of < 2 the river is highly likely to be overdeep.
    If River shape has a value of < 4 the river is likely to be overdeep, especially if the Average width is greater than 10 m.

    …

    If the presence *of an overdeep channel seems to be a reasonable judgement then the RCA for your site should be reduced by one class (e.g. from Good to Fairly Good, or from Moderate to Fairly Poor)*".

20. Where:

    "River Shape = " "Average MoRPh width" /"Average (water depth + lower bank height)" " "

21. As such, both watercourses were downgraded from Moderate condition to Fairly Poor condition.

22. Enhancements to the Norton Brook include creating a 10m buffer along 225m of the watercourse wherein at least a third of the area adjacent to the watercourse is wetland habitat, the remainder being neither arable or developed land. This shifts Norton Brook up a condition category to Moderate while Red Brook remains in Fairly Poor condition.
    Calculation

23. Following calculations based upon the illustrative proposals undertaken using DEFRA Statutory Biodiversity Metric Calculation Tool, it can be seen that a net gain in biodiversity can be delivered as a result of the proposed development. Specifically, an increase in habitat units from 98.25 units to 118.28 units which equates to a **20.38% increase** overall.

24. An increase in hedgerow units has also been calculated, from 43.64 units to 52.39 units (which equates to a **20.03% increase**). This net increase in hedgerow units does not currently meet trading rules due to the loss of habitat (species-rich hedgerow associated with a bank or ditch) that requires 'like for like or better' post development. As such, incorporating species-rich native hedgerow associated with a bank or ditch into the proposed development, with a length of 310m, will satisfy trading rules and raise hedgerow net gain to 28.37%. The DEFRA Statutory Biodiversity Metric Calculation is shown at Appendix 2.

25. The proposed enhancement of 225m of Norton Brook satisfies trading rules and increases watercourse units from 9.48 units to 9.82 units (which equates to a **3.53% increase**). While this is below the 10% target, the creation of ditches within the site with a total length of 130m would raise the net gain in watercourse units to 10.35%.

26. These calculations are based on certain assumptions made from the current proposals. These being that all retained native hedgerows will be enhanced to

species-rich hedgerows (with any hedgerows in moderate condition also being improved to good condition), and that a third of the land being enhanced along the Norton Brook is wet woodland while the other two thirds are other neutral grassland. A 70:30 split between developed land; sealed surface and vegetated gardens is also assumed for the proposed residential development.

27. It should be noted that the DEFRA Biodiversity Metric calculation does not take into consideration measures relating to protected or notable species. The provision of new species-rich grassland will provide enhanced foraging opportunities for Badgers, bats, and birds, as well as habitat for invertebrates, amphibians and reptiles. New native tree and hedgerow planting will provide enhanced foraging and navigational opportunities for bats, foraging and nesting opportunities for birds and foraging opportunities for Badgers, potential hibernation/shelter opportunities for amphibians and reptiles, as well as enhanced habitat for invertebrates. The provision of new SuDS features will also provide enhanced aquatic habitat for amphibians and invertebrates as well as enhanced foraging opportunities for bats and foraging/nesting opportunities for birds.

28. A number of additional enhancements will also be provided as part of the proposed development, that are not accounted for within the net gain calculation. This includes the provision of bat boxes providing enhanced roosting opportunities for bats and bird boxes providing enhanced nesting opportunities for birds post-development.

CONCLUSION

29. The calculation indicates that a net gain in biodiversity can be achieved under the current development proposals subject to the meeting of hedgerow trading rules and the creation of watercourses (ditches) as described above.

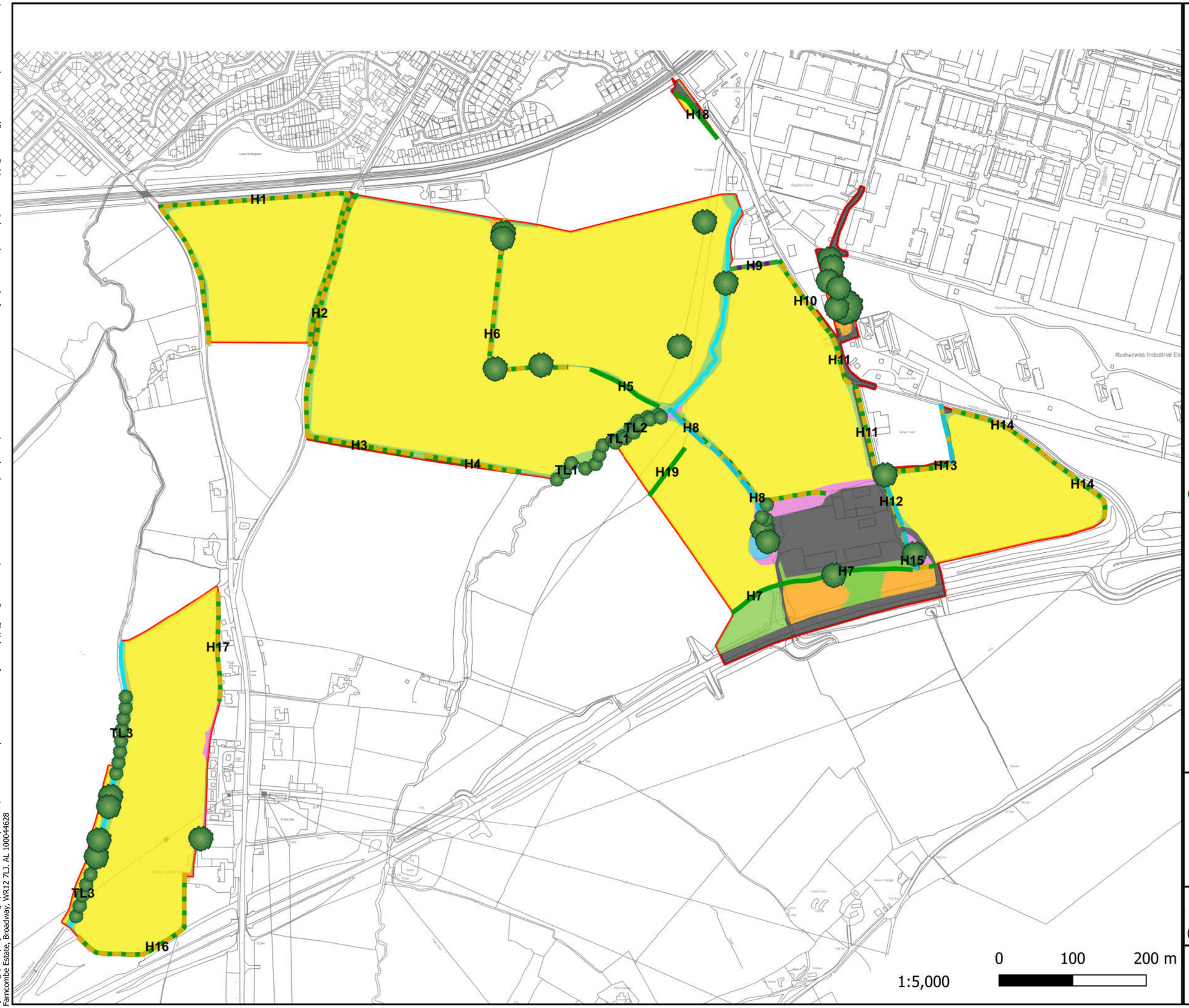
30. It is also considered that the development proposals will deliver a further net gain in biodiversity through the additional enhancement measures detailed above that are not accounted for within the calculation. As such, it is considered that it has been demonstrated that the proposed development will achieve an overall net gain in biodiversity over the existing situation.

Ecology Solutions
March 2024

PLANS

PLAN BNG1

Baseline Habitats



KEY:

- SITE BOUNDARY
- CEREAL CROPS
- MODIFIED GRASS
- DEVELOPED LAND; SEALED SURFACE
- MIXED SCRUB
- RUDERAL VEGETATION
- HEDGEROW (AREA)
- POND (NON-PRIORITY)
- HEDGEROW
- SPECIES-RICH HEDGEROW
- WET DITCH
- ORNAMENTAL HEDGEROW
- TREE LINE
- STREAM
- TREE

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11537: LAND AT LOWER BULLINGHAM (THE SOUTHERN URBAN EXPANSION)

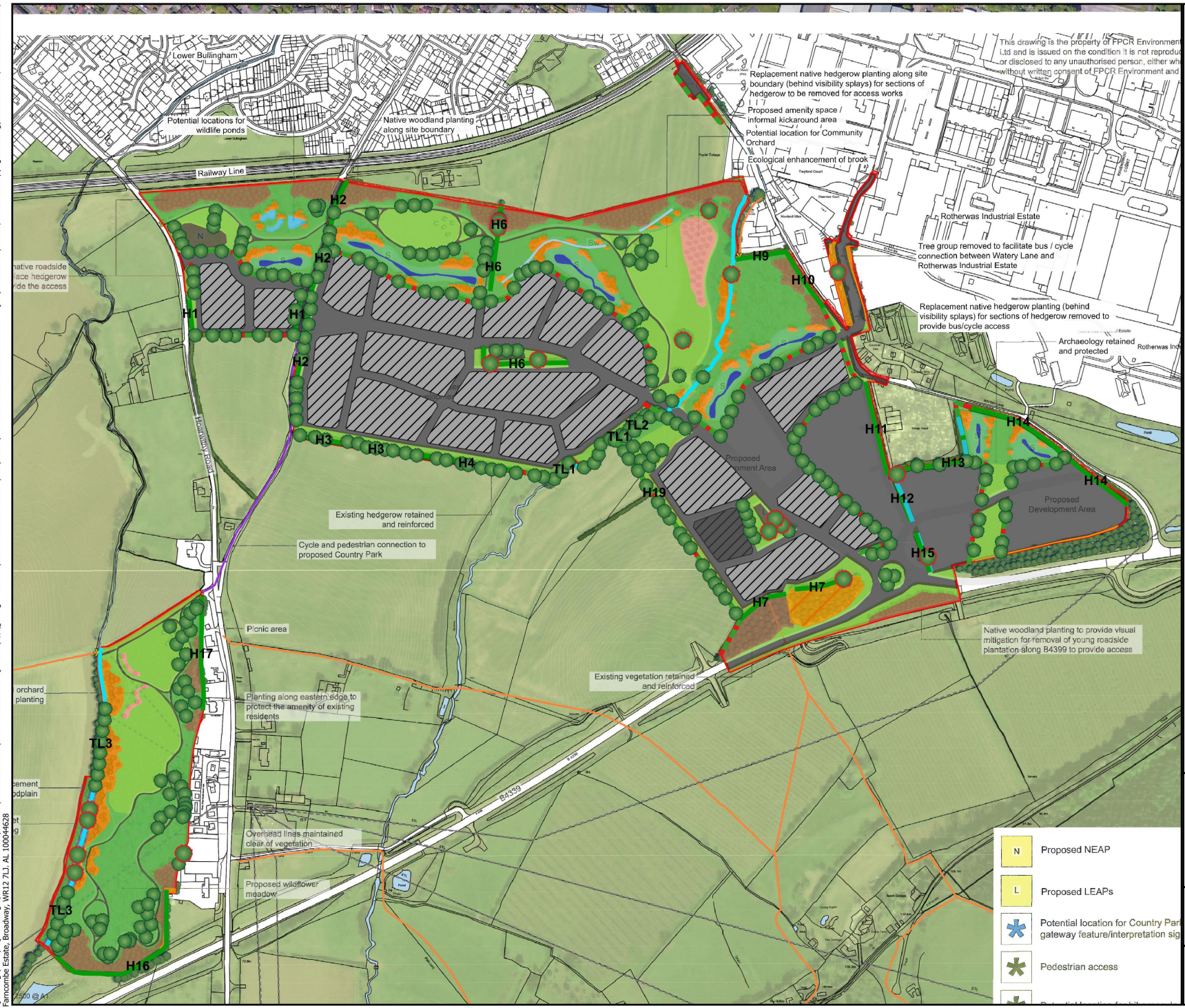
PLAN: BNG1

Rev: B

Oct 2024

PLAN BNG2

Proposed Habitats



KEY:

- SITE BOUNDARY
- BUILT ENVIRONMENT (ASSIGNED 70:30 DEVELOPED:GARDENS)
- DEVELOPED LAND; SEALED SURFACE
- MODIFIED GRASSLAND
- OTHER NEUTRAL GRASSLAND
- SuDS
- ORCHARD
- WILDLIFE POND
- PROPOSED WOODLAND
- RETAINED SCRUB
- RETAINED HEDGEROW (AREA)
- PROPOSED HEDGEROW (AREA)
- PROPOSED SCRUB
- SWALE
- WETLAND HABITAT (ASSUMED WET WOODLAND)
- TREE LINE
- HEDGEROW
- RETAINED HEDGEROW
- WET DITCH
- PROPOSED HEDGEROW
- STREAM
- RETAINED TREE

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11537: LAND AT LOWER BULLINGHAM (THE SOUTHERN URBAN EXPANSION)

PLAN: BNG2

Rev: B

August 2024

ANNEXES

ANNEX 1

Site Layout

Lower Bullingham

Potential locations for wildlife ponds

Native woodland planting along site boundary

Railway Line

Replacement native hedgerow planting along site boundary (behind visibility splays) for sections of hedgerow to be removed for access works

Proposed amenity space / informal kickaround area

Potential location for Community Orchard

Ecological enhancement of brook

Rotherwas Industrial Estate

Tree group removed to facilitate bus / cycle connection between Watery Lane and Rotherwas Industrial Estate

New tree planting and native roadside hedgerow planting to replace hedgerow removed to provide the access

Replacement native hedgerow planting (behind visibility splays) for sections of hedgerow removed to provide bus/cycle access

Archaeology retained and protected

Rotherwas Industrial Estate

N

S

Sw

L

Proposed Development Area

Hoarwithy Road

Existing hedgerow retained and reinforced

Cycle and pedestrian connection to proposed Country Park

Picnic area

Informal orchard tree planting

Planting along eastern edge to protect the amenity of existing residents

Native woodland planting to provide visual mitigation for removal of young roadside plantation along B4399 to provide access

Existing vegetation retained and reinforced

Ecological enhancement within floodplain

Proposed Native Wet Woodland Planting

Overhead lines maintained clear of vegetation

Proposed wildflower meadow

B4339

B 4399

Scale: 1:2500 @ A1

0 50 100 150 200 250m

N Proposed NEAP

L Proposed LEAPs

Potential location for Country Park gateway feature/interpretation signage

Pedestrian access

Potential location for hibernacula

Site boundary

Existing woodland/trees/hedgerow retained *(Refer to Tree Survey)*

Proposed Parkland Trees

Indicative mix

Species	Girth	Root
Acer campestre	10-12cm	RB
Alnus glutinosa	10-12cm	RB
Betula pendula	10-12cm	RB
Corylus avellana	10-12cm	RB
Fagus sylvatica	10-12cm	RB
Malus sylvestris	10-12cm	RB
Populus nigra	10-12cm	RB
Prunus avium	10-12cm	RB
Quercus ilex	10-12cm	RB
Quercus robur	10-12cm	RB
Salix fragilis	10-12cm	RB
Sorbus torminalis	10-12cm	RB
Tilia x europaea	10-12cm	RB

Proposed Riparian Scrub / Wet Woodland

Indicative Mix

Species	Size	Root
Alnus glutinosa	60-80cm	br
Populus tremula	60-80cm	br
Salix caprea	60-80cm	br
Salix cinerea	60-80cm	br
Salix fragilis	60-80cm	br
Salix viminalis	60-80cm	br

To be planted at density circa 1 plant/m2

Proposed Native Woodland

Indicative Mix

Species	Size	Root
Acer campestre	60-80cm	br
Alnus glutinosa	60-80cm	br
Betula pendula	60-80cm	br
Crataegus monogyna	60-80cm	br
Ilex aquifolium	60-80cm	C
Quercus robur	60-80cm	br
Prunus spinosa	60-80cm	br
Sorbus aucuparia	60-80cm	br

To be planted at density circa 1 plant/m2

Proposed Native Hedgerow

Indicative Mix

Species	Size	Root
Acer campestre	60-80cm	br
Corylus avellana	60-80cm	br
Crateagus monogyna	60-80cm	br
Ilex aquifolium	60-80cm	C
Prunus spinosa	60-80cm	br
Rosa canina	60-80cm	br

To be planted at 7 plants/lm double staggered

Proposed Orchard Trees

Existing grassland
To be resown with Emorsgate EM2 or similar where disturbed through construction

Proposed Wildflower Grassland
To be sown with Emorsgate EM2 or similar

Proposed Amenity Grassland
To be sown with Emorsgate EG22 or similar

S / Sw SuDS Basins (S) and Swale (Sw) (Indicative)
To be sown with Emorsgate EG8 or similar

Potential locations for picnic areas

Indicative pedestrian routes

Existing Public Right of Way (PROW)

Pedestrian connection to Country Park

J:\7900\7930\LANDS\Plans\7930 Green Infrastructure Plan [D].indd

Bloor Homes
Lower Bullingham
Hereford

GREEN INFRASTRUCTURE PLAN

1:2500 @ A1
27th August 2024 ER/CEP
07930-FPCR-XX-ZZ-DR-L-0001 rev D

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

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ANNEX 2

DEFRA Statutory Biodiversity Metric

Project Name: Map Reference:
A-1 On-Site Habitat Baseline

Condense / Show Columns | Condense / Show Rows | Main Menu

Area habitat summary	
Total Net Unit Change	20.03
Total Net % Change	20.38%
Trading Rules Satisfied	Yes ✓

	Existing area habitats				Distinctiveness		Condition		Strategic significance			
Ref	Broad Habitat	Habitat Type	Irreplaceable habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Required Action to Meet Trading Rules
1	Cropland	Cereal crops	No	35.524	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥
2	Urban	Developed land; sealed surface	No	2.759	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required
3	Sparsely vegetated land	Ruderal/Ephemeral	No	0.989	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥
4	Grassland	Modified grassland	No	3.432	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥
5	Lakes	Ponds (non-priority habitat)	No	0.095	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
6	Sparsely vegetated land	Ruderal/Ephemeral	No	0.525	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥
7	Heathland and shrub	Mixed scrub	No	1.054	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
8	Individual trees	Rural tree	No	0.004071504	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
9	Individual trees	Rural tree	No	0.036643537	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
10	Individual trees	Rural tree	No	0.076453799	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
11	Individual trees	Rural tree	No	0.004071504	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
12	Individual trees	Rural tree	No	0.076453799	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
13	Individual trees	Rural tree	No	0.016286016	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
14	Individual trees	Rural tree	No	0.016286016	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
15	Individual trees	Rural tree	No	0.004071504	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
16	Individual trees	Rural tree	No	0.036643537	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
17	Individual trees	Rural tree	No	0.076453799	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
18	Individual trees	Rural tree	No	0.036643537	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
19	Individual trees	Rural tree	No	0.004071504	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
20	Individual trees	Rural tree	No	0.016286016	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
21	Individual trees	Rural tree	No	0.032572033	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
22	Individual trees	Rural tree	No	0.065144065	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
23	Individual trees	Rural tree	No	0.0163	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
24	Individual trees	Rural tree	No	0.0163	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
25												
26	Individual trees	Rural tree	No	0.0163	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
27	Individual trees	Rural tree	No	0.0163	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)
28	Individual trees	Rural tree	No	0.0366	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher
29	Individual trees	Rural tree	No	0.0765	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher
30												
31												
32												
33												
34												
		Total habitat area		45.06								
		Site Area (Excluding area of individual trees, green walls, intertidal hard structures)		44.38								

	Ecological baseline								Comments		
Ref	Total habitat units	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost	Bespoke compensation agreed for losses of VHDH or irreplaceable habitat	User comments	Planning authority comments	Habitat reference number
1	71.05			0.00	0.00	35.52	71.05				
2	0.00			0.00	0.00	2.76	0.00				
3	1.98	0.915	0	1.83	0.00	0.07	0.15		area beneath hedgerows		1
4	6.86			0.00	0.00	3.43	6.86				
5	0.38			0.00	0.00	0.10	0.38				
6	2.10			0.00	0.00	0.53	2.10				
7	8.43	0.642	0	5.14	0.00	0.41	3.30				2
8	0.03	0.0040715		0.03	0.00	0.00	0.00		T4		
9	0.44	0.0366435		0.44	0.00	0.00	0.00		T5		
10	0.92	0.0764538		0.92	0.00	0.00	0.00		T6		
11	0.05	0		0.00	0.00	0.00	0.05		T7		
12	0.92	0.0764538		0.92	0.00	0.00	0.00		T8		
13	0.13	0.016286		0.13	0.00	0.00	0.00		T19		
14	0.13	0.016286		0.13	0.00	0.00	0.00		T20		
15	0.03	0.0040715		0.03	0.00	0.00	0.00		T22		
16	0.29	0.0366435		0.29	0.00	0.00	0.00		T24		
17	0.92	0.0764538		0.92	0.00	0.00	0.00		T27		
18	0.44	0.0366435		0.44	0.00	0.00	0.00		T28		
19	0.03	0.0040715		0.03	0.00	0.00	0.00		T30		
20	0.20	0.016286		0.20	0.00	0.00	0.00		T31		
21	0.26	0.032572		0.26	0.00	0.00	0.00		G4		
22	0.78	0.0651441		0.78	0.00	0.00	0.00		G15		
23	0.13			0.00	0.00	0.02	0.13		T45		
24	0.13	0		0.00	0.00	0.02	0.13		T46		
25											
26	0.13		0.0163	0.00	0.13	0.00	0.00		T51		
27	0.13	0		0.00	0.00	0.02	0.13		T53		
28	0.44	0		0.00	0.00	0.04	0.44		T59		
29	0.92	0		0.00	0.00	0.08	0.92		T60		
30											
31											
32											
33											
34											
	98.25	2.08	0.02	13.49	0.13	42.99	85.83				

Total area lost (excluding area of individual trees, green walls and intertidal hard structures)	42.82

M² to hectares conversion tool:	Select a unit	Hectares	M²

Project Name: Map Reference:

A-2 On-Site Habitat Creation

Condense / Show Columns

Condense / Show Rows

Main Menu

Area habitat summary	
Total Net Unit Change	20.03
Total Net % Change	20.38%
Trading Rules Satisfied	Yes ✓
Area Check	Area Acceptable ✓

Post intervention habitats

				Distinctiveness		Condition		Strategic significance		
Ref	Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier
1	Urban	Developed land; sealed surface	18.603	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
2	Urban	Vegetated garden	2.979	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
3	Grassland	Modified grassland	6.77	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
4	Grassland	Traditional orchards	0.387	High	6	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
5	Grassland	Other neutral grassland	8.549	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
6	Sparsely vegetated land	Ruderal/Ephemeral	0.751	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
7	Heathland and shrub	Mixed scrub	1.465	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
8	Urban	Sustainable drainage system	0.272	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
9	Woodland and forest	Other woodland; broadleaved	2.671	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
10										
11	Lakes	Ponds (non-priority habitat)	0.061	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
12	Urban	Bioswale	0.063	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
13	Woodland and forest	Wet woodland	0.246	High	6	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
14	Individual trees	Urban tree	0.252433253	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
15										
16										
17										
		Total habitat area	43.07							

	Temporal multiplier						Difficulty multipliers					Comments		
Ref	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Habitat units delivered	User comments	Planning authority comments	Habitat reference number
1	0			Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Low	1	0.00			
2	1			Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	5.75			
3	1			Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	13.07			
4	20			Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	2.28			
5	5			Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	57.23			
6	1			Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	1.45	proposed hedgerow area		
7	5			Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	9.81			
8	5			Standard time to target condition applied	5	0.837	Medium	Standard difficulty applied	Medium	0.67	0.92			
9	15			Standard time to target condition applied	15	0.586	Low	Standard difficulty applied	Low	1	12.52			
10														
11	5			Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	0.61			
12	3			Standard time to target condition applied	3	0.899	Medium	Standard difficulty applied	Medium	0.67	0.23			
13	15			Standard time to target condition applied	15	0.586	Medium	Standard difficulty applied	Medium	0.67	1.16			
14	27			Standard time to target condition applied	27	0.382	Low	Standard difficulty applied	Low	1	0.77	62 small trees		
15														
16														
17														
										Total Units	105.79			

Site Area (Excluding area of individual trees, green walls, intertidal hard structures)	42.82

M² to hectares conversion tool:	Select a unit	Hectares	M²

Project Name:	Map Reference:
B-1 On-Site Hedge Baseline	

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Main Menu

Hedgerow summary	
Total Net Unit Change	12.36
Total Net % Change	26.37%
Trading Rules Satisfied	Yes ✓

	Existing hedgerow habitats			Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Ecological baseline						Comments		
Ref	Hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier		Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Planning authority comments	Habitat reference number
1	H1	Species-rich native hedgerow	0.669	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	8.03	0.046	0.046	0.55	0.55	0.59	6.92			
2	H2	Species-rich native hedgerow	0.337	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	4.04		0.312	0.00	3.74	0.03	0.30			
3	H3	Species-rich native hedgerow	0.143	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.72		0.139	0.00	1.67	0.00	0.05			
4	H4	Species-rich native hedgerow	0.127	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.52		0.127	0.00	1.52	0.00	0.00			
5	H5	Native hedgerow	0.102	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.61	0		0.00	0.00	0.10	0.61			
6	H6	Species-rich native hedgerow	0.31	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	3.72	0.228		2.74	0.00	0.08	0.98			
7	H7	Native hedgerow	0.247	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.48		0.118	0.00	0.71	0.13	0.77			
8	H8a	Species-rich native hedgerow - associated with bank or ditch	0.148	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.66	0		0.00	0.00	0.15	2.66	associated with ditch		
9	H9	Non-native and ornamental hedgerow	0.059	V.Low	1	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.06	0.059		0.06	0.00	0.00	0.00			
10	H10	Species-rich native hedgerow	0.126	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.51	0.063		1.00	0.00	0.04	0.52			
11	H11	Species-rich native hedgerow	0.194	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.55	0.12		0.96	0.00	0.07	0.59			
12	H12	Species-rich native hedgerow - associated with bank or ditch	0.069	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	1.24	0.069		1.06	0.00	0.01	0.18			
13	H13	Species-rich native hedgerow - associated with bank or ditch	0.178	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	3.20	0.164		2.95	0.00	0.01	0.25			
14	H14	Species-rich native hedgerow	0.256	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	3.07	0.233		2.80	0.00	0.02	0.28			
15	H15	Species-rich native hedgerow - associated with bank or ditch	0.073	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	1.31	0.048		0.86	0.00	0.03	0.45			
16	H16	Species-rich native hedgerow	0.232	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	2.78	0.232		2.78	0.00	0.00	0.00			
17	H17	Species-rich native hedgerow	0.142	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.70	0.142		1.70	0.00	0.00	0.00			
18	H18	Native hedgerow	0.051	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.31	0		0.00	0.00	0.05	0.31			
19	H19	Native hedgerow	0.076	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.30		0.007	0.00	0.03	0.07	0.28			
20	TL1	Line of trees - associated with bank or ditch	0.177	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.71	0.177		0.71	0.00	0.00	0.00			
21	TL2	Line of trees - associated with bank or ditch	0.075	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.30	0.075		0.30	0.00	0.00	0.00			
22	TL3	Line of trees - associated with bank or ditch	0.178	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.71	0.178		0.71	0.00	0.00	0.00			
23	H8b	Species-rich native hedgerow	0.09	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.08	0		0.00	0.00	0.09	1.08	not associated with ditch		
24																					
25																					
26																					
27																					
			4.06									43.64	1.04	0.76	19.19	8.23	1.47	16.23			

Project Name:	Map Reference:
B-2 On-Site Hedge Creation	

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Main Menu

Hedgerow summary	
Total Net Unit Change	12.38
Total Net % Change	25.37%
Trading Rules Satisfied	Yes ✓

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier					Difficulty risk multipliers				Hedge units delivered	Comments		
Ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		User comments	Planning authority comments	Habitat reference number
1	1	Species-rich native hedgerow with trees	2.314	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	20			Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	20.43			
2		Species-rich native hedgerow	0.162	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	12			Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	1.27			
3		Species-rich native hedgerow - associated with bank or ditch	0.31	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	12			Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	3.64			
4																								
5																								
			2.79																		25.33			

Project Name:	Map Reference:
B-3 On-Site Hedge Enhancement	

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Hedgerow summary	
Total Net Unit Change	12.38
Total Net % Change	28.37%
Trading Rules Satisfied	Yes ✓

Baseline Habitats

Baseline ref	Baseline habitat	Length (km)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Baseline strategic significance score	Baseline habitat units	Required Action to Meet Trading Rules
1	Species-rich native hedgerow	0.669	Medium	4	Good	3	Low Strategic Significance	1	8.028	Same distinctiveness band or better
2	Species-rich native hedgerow	0.337	Medium	4	Good	3	Low Strategic Significance	1	4.044	Same distinctiveness band or better
3	Species-rich native hedgerow	0.143	Medium	4	Good	3	Low Strategic Significance	1	1.716	Same distinctiveness band or better
4	Species-rich native hedgerow	0.127	Medium	4	Good	3	Low Strategic Significance	1	1.524	Same distinctiveness band or better
7	Native hedgerow	0.247	Low	2	Good	3	Low Strategic Significance	1	1.482	Same distinctiveness band or better
19	Native hedgerow	0.076	Low	2	Moderate	2	Low Strategic Significance	1	0.304	Same distinctiveness band or better

Post intervention habitats

Baseline ref	Proposed habitat	Change in distinctiveness and condition: Distinctiveness movement	Change in distinctiveness and condition: Condition movement	Length (km)	Distinctiveness: Distinctiveness	Distinctiveness: Score	Condition: Condition	Condition: Score	Strategic significance: Strategic significance	Strategic significance: Strategic significance	Strategic significance: Strategic significance multiplier
1	Species-rich native hedgerow with trees	Medium - High	Lower Distinctiveness Habitat - Good	0.046	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
2	Species-rich native hedgerow with trees	Medium - High	Lower Distinctiveness Habitat - Good	0.312	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
3	Species-rich native hedgerow with trees	Medium - High	Lower Distinctiveness Habitat - Good	0.139	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
4	Species-rich native hedgerow with trees	Medium - High	Lower Distinctiveness Habitat - Good	0.127	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
7	Species-rich native hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.118	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
19	Species-rich native hedgerow with trees	Low - High	Lower Distinctiveness Habitat - Good	0.007	High	6	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
				0.75							

Baseline ref	Temporal multiplier: Standard Time to target condition (years)	Temporal multiplier: Habitat enhanced in advance (years)	Temporal multiplier: Delay in starting habitat enhancement (years)	Temporal multiplier: Standard or adjusted time to target condition	Temporal multiplier: Final time to target condition (years)	Temporal multiplier: Final Time to target multiplier	Difficulty risk multipliers: Standard difficulty of enhancement	Difficulty risk multipliers: Applied difficulty multiplier	Difficulty risk multipliers: Final difficulty of enhancement	Difficulty risk multipliers: Difficulty multiplier applied	Hedge units delivered	Comments: User comments	Comments: Planning authority comments	Comments: Habitat reference number
1	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	0.75			
2	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	5.05			
3	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	2.25			
4	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	2.06			
7	5			Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	1.30			
19	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	0.10			
											11.51			

Project Name:	Map Reference:
C-1 On-Site WaterC' Baseline	

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Watercourse summary	
Total Net Unit Change	0.96
Total Net % Change	10.35%
Trading Rules Satisfied	Yes ✓

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Ecological baseline						Bespoke compensation agreed for losses of YHDH	Comments		
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Total watercourse units	Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost		User Comments	Planning authority comments	Habitat reference number
1	Other rivers and streams	0.087	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	No Encroachment	1	Moderate/ No Encroachment	0.92	Same habitat required =	0.83	0.087		0.83	0.00	0.00	0.00		Red Brook - Existing None/Mod Encroachment		
2	Other rivers and streams	0.422	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	No Encroachment	1	No Encroachment/ No Encroachment	1	Same habitat required =	4.38	0.366		3.79	0.00	0.06	0.59		Red Brook - Existing No Encroachment		
3	Other rivers and streams	0.4	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	No Encroachment	1	No Encroachment/ No Encroachment	1	Same habitat required =	4.14	0.175	0.225	1.81	2.33	0.00	0.00		Norton Brook		
4	Ditches	0.03	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	No Encroachment	1	No Encroachment/ No Encroachment	1	Same habitat required =	0.14	0		0.00	0.00	0.03	0.14		Ditch to south of HB (not associated with hedgerow)		
5																									
6																									
7																									
8																									
		0.94													9.48	0.63	0.23	6.43	2.33	0.09	0.73				

Project Name:	Map Reference:
C-2 On-Site WaterC' Creation	

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Watercourse summary	
Total Net Unit Change	0.98
Total Net % Change	10.58%
Trading Rules Satisfied	Yes ✓

	Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier					Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Watercourse units delivered	Comments		
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		User comments	Planning authority comments	Habitat reference number
1	Other rivers and streams	0.025	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	2	10		Check details - Is there evidence that habitat has reached target condition? ⚠	0	1.000	High	Low Difficulty - only applicable if all habitat created before losses ⚠	Low	1	No Encroachment	1	Minor/ No Encroachment	0.98	0.25			
2	Other rivers and streams	0.005	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	2	10		Check details - Is there evidence that habitat has reached target condition? ⚠	0	1.000	High	Low Difficulty - only applicable if all habitat created before losses ⚠	Low	1	No Encroachment	1	Moderate/ No Encroachment	0.92	0.05			
3	Other rivers and streams	0.006	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	2	10		Check details - Is there evidence that habitat has reached target condition? ⚠	0	1.000	High	Low Difficulty - only applicable if all habitat created before losses ⚠	Low	1	No Encroachment	1	Major/No Encroachment	0.87	0.05			
4	Culvert	0.021	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	10		Check details - Is there evidence that habitat has reached target condition? ⚠	0	1.000	Medium	Low Difficulty - only applicable if all habitat created before losses ⚠	Low	1	N/A - Culvert	0.68	N/A - Culvert	1	0.03	Culvert		
5	Ditches	0.13	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10			Standard time to target condition applied	10	0.700	Medium	Standard difficulty applied	Medium	0.67	No Encroachment	1	No Encroachment/ No Encroachment	1	0.84	created ditches to reach above 10%		
6																											
7																											
8																											
9																											
10																											
		0.19																						1.83			

Project Name: Map Reference:
C-3 On-Site WaterC' Enhancement

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Watercourse summary	
Total Net Unit Change	0.96
Total Net % Change	10.35%
Trading Rules Satisfied	Yes ✓

	Baseline habitats										
Baseline ref	Baseline habitat	Length (km)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Strategic significance	Baseline strategic significance Score	Required Action to Meet Trading Rules	Baseline habitat units
3	Other rivers and streams	0.4	High	6	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	Same habitat required =	4.14

	Post intervention habitats																	
	Proposed habitat	Change in distinctiveness and condition		Length (km)	Habitat distinctiveness		Habitat condition		Strategic significance			Temporal multiplier						
Baseline ref		Distinctiveness movement	Condition movement		Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat enhanced in advance (years)	Delay in starting habitat enhancement (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier
3	Other rivers and streams	High - High	Fairly Poor - Moderate	0.225	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	2	0	0	Standard time to target condition applied	2	0.931
				0.23													

	Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Watercourse units delivered	Comments		
Baseline ref	Standard difficulty of enhancement	Applied difficulty multiplier	Final difficulty of enhancement	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		User comments	Planning authority comments	Habitat reference number
3	Medium	Standard difficulty applied	Medium	0.67	No Encroachment	1	No Encroachment/ No Encroachment	1	2.81			
									2.81			

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Headline Results

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On-site baseline	*Habitat units*	98.25	
	Hedgerow units	43.64	
	Watercourse units	9.48	
On-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	118.28	
	Hedgerow units	56.02	
	Watercourse units	10.47	
On-site net change (units & percentage)	*Habitat units*	20.03	20.38%
	Hedgerow units	12.38	28.37%
	Watercourse units	0.98	10.35%
Off-site baseline	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site net change (units & percentage)	*Habitat units*	0.00	0.00%
	Hedgerow units	0.00	0.00%
	Watercourse units	0.00	0.00%
Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	20.03	
	Hedgerow units	12.38	
	Watercourse units	0.98	
Spatial risk multiplier (SRM) deductions	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	

FINAL RESULTS

Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	20.03	
	Hedgerow units	12.38	
	Watercourse units	0.98	
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	20.38%	
	Hedgerow units	28.37%	
	Watercourse units	10.35%	
Trading rules satisfied?	Yes ✓		

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	10.00%	98.25	108.08	0.00	No additional area habitat units required to meet target ✓
Hedgerow units	10.00%	43.64	48.01	0.00	No additional hedgerow units required to meet target ✓
Watercourse units	10.00%	9.48	10.43	0.00	No additional watercourse units required to meet target ✓

Input errors/rule breaks present in metric ▲