

The Biodiversity Metric 3.1 - Calculation Tool

Start page

Project details	
Planning authority:	
Project name:	Land off Kirkby Road, Desford
Applicant:	Davidson Developments Ltd
Application type:	Outline
Planning application reference:	
Assessor:	
Reviewer:	Revised By Kerry Baker, Msc, Senior Ecologist
Metric version:	3.1 REV8
Assessment date:	09.05.2025
Planning authority reviewer:	

Instructions

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Results

View all

Reset view

Cell style conventions	
	Enter data
	Automatic lookup
	Result

On-site baseline map

Insert

On-site post intervention map

Insert



Off-site baseline map

Insert

Off-site post intervention map

Insert

Key

Area habitats

Hedgerows and lines of trees

Rivers and streams

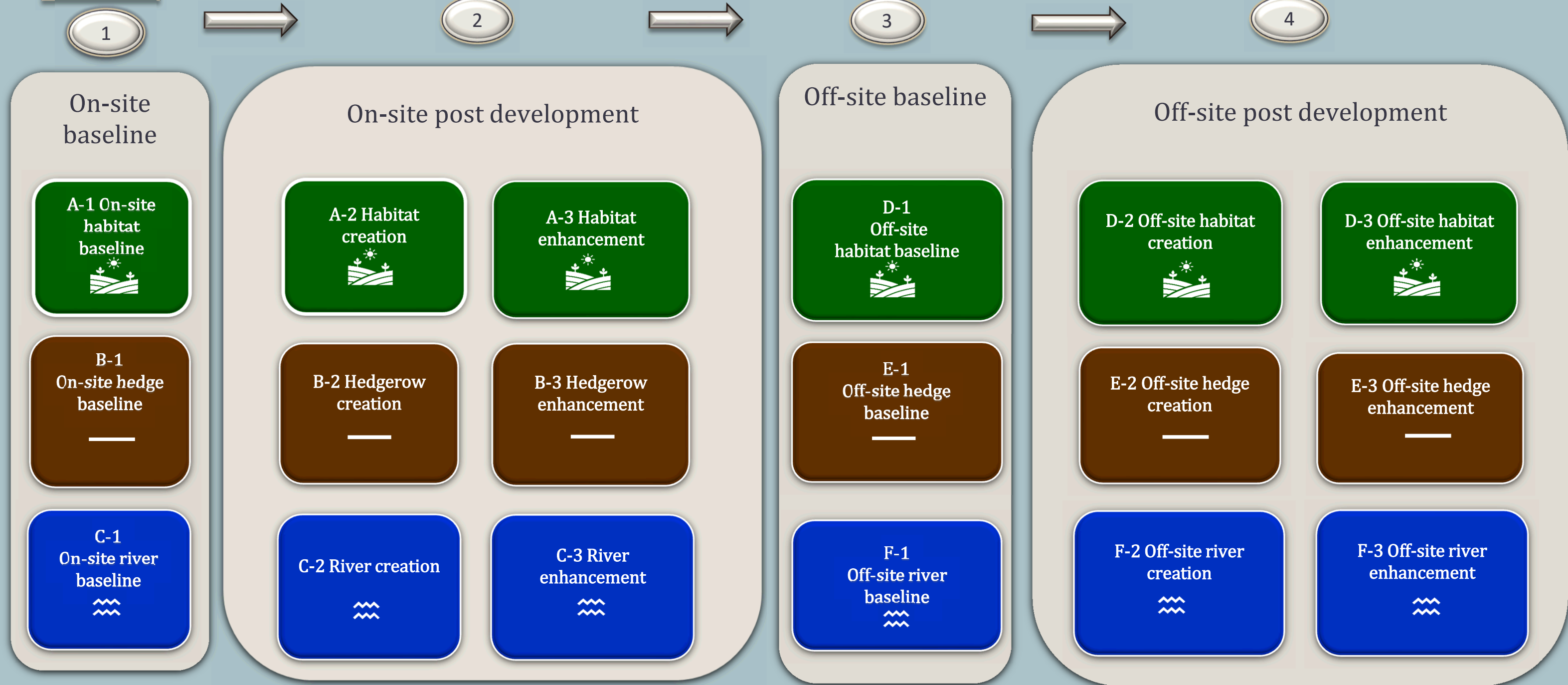
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Urban tree helper						
Tree size	Number of trees and area (ha) for each condition state					
	Poor	Area	Moderate	Area	Good	Area
Small		0.0000	92	0.3744		0.0000
Medium		0.0000	8	0.2930		0.0000
Large		0.0000		0.0000		0.0000
Total	0	0.0000	100	0.6674	0	0.0000

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The Biodiversity Metric 3.1 - Calculation Tool Results

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Headline results

Detailed results

Habitat trading
summary

On-site baseline	Habitat units	11.41
	Hedgerow units	7.89
	River units	0.00
On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	14.44
	Hedgerow units	10.43
	River units	0.00
On-site net % change (Including habitat retention, creation & enhancement)	Habitat units	26.53%
	Hedgerow units	32.25%
	River units	0.00%
Off-site baseline	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Total net unit change (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	3.03
	Hedgerow units	2.54
	River units	0.00
Total on-site net % change plus off-site surplus (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	26.53%
	Hedgerow units	32.25%
	River units	0.00%
Trading rules Satisfied?	Yes ✓	

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Trading Summary		
Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required $\geq$	Yes $\checkmark$
High	Same habitat required =	Yes $\checkmark$
Medium	Some broad habitat or a higher distinctiveness habitat required $\geq$	Yes $\checkmark$
Low	Same distinctiveness or better habitat required $\geq$	Yes $\checkmark$

Very High Distinctiveness				
Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change
Grassland - Lowland dry acid grassland	Grassland	0.00	0.00	0.00
Grassland - Lowland meadows	Grassland	0.00	0.00	0.00
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Callunetum grasslands	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00
Wetland - Blanket bog	Wetland	0.00	0.00	0.00
Wetland - Depressions on Peat substrates (H7150)	Wetland	0.00	0.00	0.00
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00
Wetland - Lowland mixed bog	Wetland	0.00	0.00	0.00
Wetland - Oceanic Valley Mire [1] (D2.1)	Wetland	0.00	0.00	0.00
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00
Wetland - Transition mire and quaking bog (H7140)	Wetland	0.00	0.00	0.00
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00
Intertidal sediment - Littoral swards on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00
		0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00

High Distinctiveness				
Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change
Grassland - Traditional orchards	Grassland	0.00	0.00	0.00
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00
Lakes - Mort Lakes	Lakes	0.00	0.00	0.00
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00
Lakes - Peats (Priority Habitat)	Lakes	0.03	0.00	0.03
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Coastal vegetated dune	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Inland rock, outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00
Urban - Open Moors Habitats on Previously Developed Land	Urban	0.00	0.00	0.00
Wetland - Fenbels	Wetland	0.00	0.00	0.00
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00
		0.03	0.00	0.03

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	0.03
Unit Deficit; Like for like not satisfied	$\checkmark$ 0.00

Medium Distinctiveness				
Habitat Group	Group	On site unit change	Off Site unit Change	Project wide unit change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00
Grassland - Other neutral grassland	Grassland	8.11	0.00	8.11
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Hawthorn scrub	Heathland and shrub	-0.28	0.00	-0.28
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00
Heathland and shrub - Mixed scrub	Heathland and shrub	-0.51	0.00	-0.51
Lakes - Ponds (Non-Priority Habitat)	Lakes	0.00	0.00	0.00
Lakes - Reservoirs	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00
Urban - Concretes and churchyards	Urban	0.00	0.00	0.00
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00
Urban - Urban Tree	Urban	2.02	0.00	2.02
Woodland and forest - Other Beech Pine woodland	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Other woodland; broadleaved	Woodland and forest	0.00	0.00	0.00
Woodland and forest - Other woodland mixed	Woodland and forest	0.00	0.00	0.00
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)	Intertidal	0.00	0.00	0.00
		10.18	0.00	10.18

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset lower distinctiveness deficit	10.18
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	0.00
Higher distinctiveness surplus units minus Medium Distinctiveness Broad Habitat Deficit	0.03
Cumulative surplus of units	10.21

Low Distinctiveness				
Habitat group	Group	On site unit change	Off Site Unit Change	Project wide unit change
Cropland - Cereal crops	Cropland	0.00	0.00	-10.34
Cropland - Horticulture	Cropland	0.00	0.00	0.00
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00
Grassland - Modified grassland	Grassland	0.00	0.00	-0.06
Grassland - Bracken	Grassland	0.00	0.00	0.00
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Ornamental lake or pond	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Ruderal (Epimont)	Sparsely vegetated land	-0.09	0.00	-0.09
Urban - Browale	Sparsely vegetated land	0.00	0.00	0.00
Urban - Allotments	Urban	0.00	0.00	0.00
Urban - Facade-bound green wall	Urban	0.00	0.00	0.00
Urban - Ground-based green wall	Urban	0.00	0.00	0.00
Urban - Ground-level planter	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Intensive green roof	Urban	0.00	0.00	0.00
Urban - Intensive green roof	Urban	-0.02	0.00	-0.02
Urban - Rain garden	Urban	0.00	0.00	0.00
Urban - Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00
Urban - Sustainable urban drainage feature	Urban	1.32	0.00	1.32
Urban - Vacant/derelict land/ bareground	Urban	-0.02	0.00	-0.02
Urban - Vegetated parking	Urban	1.27	0.00	1.27
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral swards	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00
Intertidal Hard Structures - Artificial hard structures	Intertidal	0.00	0.00	0.00
Intertidal Hard Structures - Artificial features of hard structures	Intertidal	0.00	0.00	0.00
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00
		-7.19	0.00	-7.19

Low Distinctiveness Summary	
Low Distinctiveness Net Change in Units	-7.19
Cumulative surplus of units	3.03

Habitats and areas				Distinctiveness		Condition		Strategic significance			Suggested action to address habitat losses	Ecological baseline
Ref	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic Significance multiplier		Total habitat units
1	Urban	Developed land; sealed surface	0.05	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00
2	Cropland	Cereal crops	5.17	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 ≥	10.34
3	Grassland	Modified grassland	0.12	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.48
4	Lakes	Ponds (Priority Habitat)	0.01	High	6	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same habitat required =	0.12
5	Heathland and shrub	Bramble scrub	0.07	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)	0.28
6	Urban	Introduced shrub	0.01	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 ≥	0.02
7	Sparsely vegetated land	Ruderal/Ephemeral	0.02	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness or better habitat required ≥	0.09
8	Urban	Vacant/derelict land/ bareground	0.01	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.02
9	Grassland	Modified grassland	0.03	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.06
10												
11												
12												
13												
Total habitat area			5.49									11.41

Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments	
Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost		Assessor comments	Reviewer comments
		0.00	0.00	0.05	0.00		Hardstanding to driveway and house.	
		0.00	0.00	5.17	10.34		Arable crop	
		0.00	0.00	0.12	0.48		Species poor semi-improved grassland. Meets moderate condition due to meeting 5 criteria only. Fewer than 8 species per square metre.	
	0.01	0.00	0.12	0.00	0.00		Pond 1 - poor quality, however qualifies as priority due to the presence of a breeding population of grass snake.	
		0.00	0.00	0.07	0.28		Dense scrub associated with building B1. Passes 4 of 5 criteria, failing criteria 1 due to the dominance of bramble which comprises over 75% of the structure.	
		0.00	0.00	0.01	0.02		Introduced scrub within garden habitats.	
		0.00	0.00	0.02	0.09		Tall ruderal herbs to habitat boundaries.	
		0.00	0.00	0.01	0.02		Vegetable patches associated with garden habitats	
		0.00	0.00	0.03	0.06		Amenity Grassland to rear garden	
0.00	0.01	0.00	0.12	5.48	11.29			

Total area lost (excluding area of Urban trees and Green walls)	5.48
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