



The Biodiversity Metric 3.0

auditing and accounting for biodiversity

Calculation Tool

[Open Tool](#)

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The Biodiversity Metric 3.0 - Calculation Tool

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Project details	
Planning authority:	
Project name:	High Street, Colney Heath
Applicant:	Tarmac
Application type:	
Planning application reference:	
Assessor:	Emilia Adamson M BiolSci (Hons)
Reviewer:	
Metric version:	3
Assessment date:	27/01/2022
Planning authority reviewer:	

Instructions

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Results

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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

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The Biodiversity Metric 3.0

Auditing and accounting for biodiversity

Calculation Tool: Short Guide

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Main menu

Urban tree helper		
Tree size	Tree number	Area
Small	2	0.0009
Medium	57	0.2320
Large	2	0.0226
Total	61.00	0.2555

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On-site baseline

A-1 On-site habitat baseline

B-1 On-site hedge baseline

C-1 On-site river baseline

On-site post development

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C-3 River enhancement

Off-site baseline

D-1 Off-site habitat baseline

E-1 Off-site hedge baseline

F-1 Off-site river baseline

Off-site post development

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D-3 Off-site habitat enhancement

E-2 Off-site hedge creation

E-3 Off-site hedge enhancement

F-2 Off-site river creation

F-3 Off-site river enhancement

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Headline results

Detailed results

Habitat trading summary

High Street, Colney Heath

Headline Results

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On-site baseline	Habitat units	3.77
	Hedgerow units	2.53
	River units	0.00
On-site post-intervention <small>(Including habitat retention, creation & enhancement)</small>	Habitat units	4.62
	Hedgerow units	2.92
	River units	0.00
On-site net % change <small>(Including habitat retention, creation & enhancement)</small>	Habitat units	22.56%
	Hedgerow units	15.53%
	River units	0.00%
Off-site baseline	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention <small>(Including habitat retention, creation & enhancement)</small>	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Total net unit change <small>(including all on-site & off-site habitat retention, creation & enhancement)</small>	Habitat units	0.85
	Hedgerow units	0.39
	River units	0.00
Total on-site net % change plus off-site surplus <small>(including all on-site & off-site habitat retention, creation & enhancement)</small>	Habitat units	22.56%
	Hedgerow units	15.53%
	River units	0.00%
Trading rules Satisfied?	Yes	

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Summary Figures

Net project biodiversity units (including all on-site & off-site habitat retention/enhancement)	Proposed units	3,348
	Baseline units	3,328
Total project biodiversity % change (including all On-site & Off-site habitat Creation + Retention/enhancement)	Proposed units	0.69%
	Baseline units	0.69%

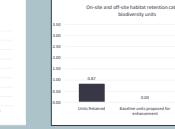
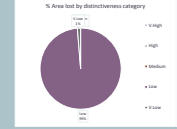
Combined habitat retention and enhancement

	Baseline	Proposed	Change
Total area length	100%	100%	0%
Total area	100%	100%	0%
On-site length retention	100%	100%	0%
On-site area	100%	100%	0%
Off-site length proposed for enhancement	100%	100%	0%
Off-site area proposed for enhancement	100%	100%	0%
Area length lost	100%	100%	0%
Area	100%	100%	0%

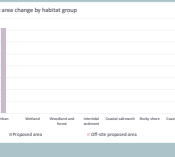
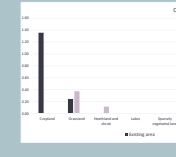
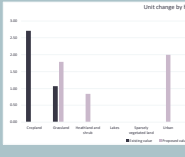
Area habitats

Habitat group	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grassland	100%	100%	100%	100%	0%	0%
Woodland	100%	100%	100%	100%	0%	0%
Wetland	100%	100%	100%	100%	0%	0%
Watercourse	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%

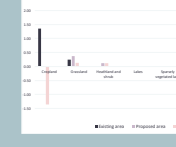
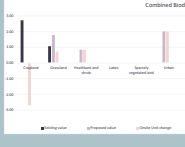
Category	Area lost (hectares)	Area lost (%)
High	0	0
Medium	0	0
Low	1.000	10
Very Low	0.000	0



Habitat group	Existing length	Existing area	Proposed length	Proposed area	Off-site length	Off-site area	Off-site length change	Off-site area change
Grassland	100%	100%	100%	100%	0%	0%	0%	0%
Woodland	100%	100%	100%	100%	0%	0%	0%	0%
Wetland	100%	100%	100%	100%	0%	0%	0%	0%
Watercourse	100%	100%	100%	100%	0%	0%	0%	0%
Other	100%	100%	100%	100%	0%	0%	0%	0%



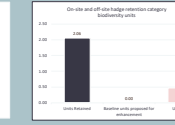
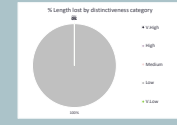
Habitat group	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grassland	100%	100%	100%	100%	0%	0%
Woodland	100%	100%	100%	100%	0%	0%
Wetland	100%	100%	100%	100%	0%	0%
Watercourse	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%



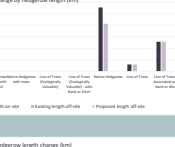
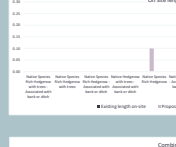
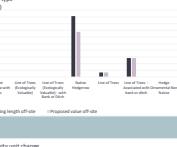
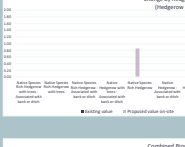
Hedgerows and lines of trees

Hedgerow type	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grass	100%	100%	100%	100%	0%	0%
Wood	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%

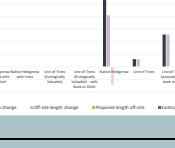
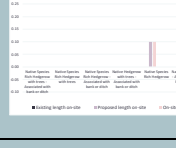
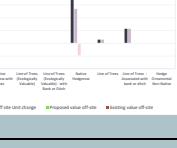
Category	Length lost (km)	Length lost (%)
High	0	0
Medium	0	0
Low	0.000	0
Very Low	0	0



Hedgerow type	Existing length	Existing area	Proposed length	Proposed area	Off-site length	Off-site area	Off-site length change	Off-site area change
Grass	100%	100%	100%	100%	0%	0%	0%	0%
Wood	100%	100%	100%	100%	0%	0%	0%	0%
Other	100%	100%	100%	100%	0%	0%	0%	0%



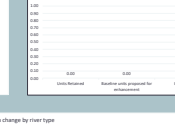
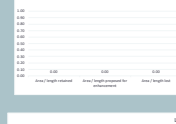
Hedgerow type	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grass	100%	100%	100%	100%	0%	0%
Wood	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%



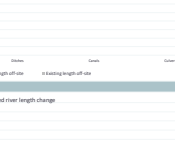
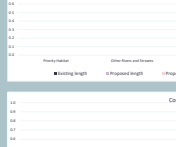
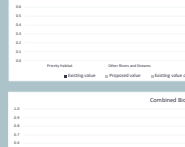
Rivers and Streams

River type	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grass	100%	100%	100%	100%	0%	0%
Wood	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%

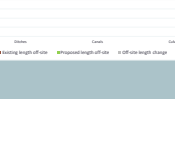
Category	Length lost (km)	Length lost (%)
High	0	0
Medium	0	0
Low	0	0
Very Low	0	0



River type	Existing length	Existing area	Proposed length	Proposed area	Off-site length	Off-site area	Off-site length change	Off-site area change
Grass	100%	100%	100%	100%	0%	0%	0%	0%
Wood	100%	100%	100%	100%	0%	0%	0%	0%
Other	100%	100%	100%	100%	0%	0%	0%	0%



River type	Existing length	Existing area	Proposed length	Proposed area	Change length	Change area
Grass	100%	100%	100%	100%	0%	0%
Wood	100%	100%	100%	100%	0%	0%
Other	100%	100%	100%	100%	0%	0%



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Trading Summary			
Distinctiveness Group	Trading Rule	Trading Satisfied?	
Very High	Bespoke compensation likely to be required	Yes	
High	Some habitat required	Yes	
Medium	Some distinctiveness or better habitat required	Yes	
Low	Some distinctiveness or better habitat required	Yes	

Very High Distinctiveness					
Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Unit Losses
Cropland - Lowland dry acid grassland	Cropland	0.00	0.00	0.00	
Cropland - Lowland meadows	Cropland	0.00	0.00	0.00	
Cropland - Upland hay meadows	Cropland	0.00	0.00	0.00	
Heathland and shrub - Moorland heath 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	
Sparingly vegetated land - Callunetum grasslands	Sparingly vegetated land	0.00	0.00	0.00	
Sparingly vegetated land - Limestone pavement	Sparingly vegetated land	0.00	0.00	0.00	
Wetland - Blanket bog	Wetland	0.00	0.00	0.00	
Wetland - Depositional peat substrates (A1720)	Wetland	0.00	0.00	0.00	
Wetland - Fens (sustained and lowland)	Wetland	0.00	0.00	0.00	
Wetland - Lowland raised 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 - Temporary lakes, pools and ponds	Wetland	0.00	0.00	0.00	
Woodland and forest - Broadleaved deciduous woodland	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 seaweeds on peat, clay or chalk	Intertidal sediment	0.00	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	Losses not yet accounted for
Cropland - Traditional orchards	Cropland	0.00	0.00	0.00	
Cropland - Woodland/Wetland/Moors (CFGB)	Cropland	0.00	0.00	0.00	
Cropland - Lowland calcareous grassland	Cropland	0.00	0.00	0.00	
Cropland - Tall herb communities	Cropland	0.00	0.00	0.00	
Cropland - Upland calcareous grassland	Cropland	0.00	0.00	0.00	
Heathland and shrub - 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 - High alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Marl 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 - Ponds (Priority Habitat)	Lakes	0.00	0.00	0.00	
Lakes - Temporary lakes, pools and ponds	Lakes	0.00	0.00	0.00	
Sparingly vegetated land - Coastal sand dunes	Sparingly vegetated land	0.00	0.00	0.00	
Sparingly vegetated land - Coastal vegetated shingle	Sparingly vegetated land	0.00	0.00	0.00	
Sparingly vegetated land - Inland rock outcrops and scree habitats	Sparingly vegetated land	0.00	0.00	0.00	
Sparingly vegetated land - Maritime cliff and slopes	Sparingly vegetated land	0.00	0.00	0.00	
Urban - Open Moors/Habitats on Previously Developed Land	Urban	0.00	0.00	0.00	
Urban - Wetland - Reeds/beds	Urban	0.00	0.00	0.00	
Woodland and forest - Lowland broad and wet 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 hardwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwoods	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 sand	Intertidal sediment	0.00	0.00	0.00	
Coastal saltmarsh - Saltmarshes and saline heathbeds	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 - Sponges	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	
		0.00	0.00	0.00	0.00

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Unit Deficit: Line for line not satisfied	0.00

Medium Distinctiveness					
Habitat Group	Group	On site unit change	Off Site Unit Change	Project wide unit change	Cumulative Broad Habitat Change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins/gene/bird mix	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins/petals & nectar	Cropland	0.00	0.00	0.00	0.00
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	
Cropland - Cereal crop/winter stubble	Cropland	0.00	0.00	0.00	
Cropland - Other lowland acid grassland	Cropland	0.00	0.00	0.00	
Cropland - Other neutral grassland	Cropland	0.53	0.00	0.53	0.53
Cropland - Upland acid grassland	Cropland	0.00	0.00	0.00	
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Bramble scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	0.84
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Mixed scrub	Heathland and shrub	0.94	0.00	0.94	
Lakes - Ponds (Non Priority Habitat)	Lakes	0.00	0.00	0.00	
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00
Sparingly vegetated land - Other inland rock and scree	Sparingly vegetated land	0.00	0.00	0.00	
Urban - Brown roof	Urban	0.00	0.00	0.00	
Urban - Conventional chimneys	Urban	0.00	0.00	0.00	0.00
Urban - Interspersed roof	Urban	0.00	0.00	0.00	
Woodland and forest - Other Scots Pine woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Other woodland, mixed	Woodland and forest	0.00	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	0.00
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (GGI)	Intertidal	0.00	0.00	0.00	0.00
		1.36	0.00	1.36	

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset lower distinctiveness deficit	1.36
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	0.00
Higher distinctiveness surplus units minus Medium Distinctiveness Broad Habitat Deficit	0.00
Cumulative surplus of units	1.36

Low Distinctiveness					
Habitat group	Group	On site unit change	Off Site Unit Change	Project wide unit change	
Cropland - Cereal crops	Cropland	-2.00	0.00	-2.00	
Cropland - Cereal crops/other	Cropland	0.00	0.00	0.00	
Cropland - Horticulture	Cropland	0.00	0.00	0.00	
Cropland - Intensive pastures	Cropland	0.00	0.00	0.00	
Cropland - Non-cultivated crops	Cropland	0.00	0.00	0.00	
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00	
Grassland - Moorland grassland	Grassland	0.00	0.00	0.00	
Grassland - Bracken	Grassland	0.00	0.00	0.00	
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Charismatic lakes or ponds	Lakes	0.00	0.00	0.00	
Sparingly vegetated land - Rubra/Ephemeral	Sparingly vegetated land	0.00	0.00	0.00	
Urban - Bioretains	Urban	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 planters	Urban	0.00	0.00	0.00	
Urban - Extensive green roof	Urban	0.00	0.00	0.00	
Urban - Intensive green roof	Urban	0.00	0.00	0.00	
Urban - Rain garden	Urban	0.00	0.00	0.00	
Urban - Sand oil canopy or open cell mine	Urban	0.00	0.00	0.00	
Urban - Urban trees	Urban	0.88	0.00	0.88	
Urban - Urban green walls/vertical gardens	Urban	0.22	0.00	0.22	
Urban - Vacant/unused land background	Urban	0.00	0.00	0.00	
Urban - Vacant/unused land foreground	Urban	0.88	0.00	0.88	
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00	
Coastal saltmarsh - Artificial saltmarshes and saline heathbeds	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 sponges	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	-0.51	0.00	-0.51	

Low Distinctiveness Summary	
Low Distinctiveness Net Change in Units	-2.00
Overall surplus/deficit of units	0.36

