The Biodiversity Metric 2.0 - Calculation Tool
Start page

Project details

Planning authority:	**St Helens Council**
Project name:	**Omega Zone 8**
Applicant:	**Omega Warrington Ltd**
Application type:	**Hybrid**
Planning application reference:	
Assessor:	**Mark Morgan**
Reviewer:	
Revision:	**A**
Assessment date:	**15/06/2020**
Planning authority reviewer:	

Cell style conventions

	Enter data
	Automatic lookup
	Result

Instructions

Main menu

Results

View all

Reset view

The Biodiversity Metric 2.0 - Calculation Tool Instructions

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NATURAL ENGLAND

The Biodiversity Metric 2.0

auditing and accounting for biodiversity

Calculation Tool: Short Guide

Beta Version

July 2019

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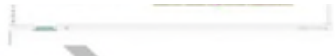
The Biodiversity Metric 2.0 – Calculation Tool Guidance

This guide shows you how to use the biodiversity metric 2.0 calculation tool in six quick steps.

Before starting you will need to know the following about your project:

- The types of habitat involved (on-site and off-site)
- The size of each habitat parcel (in hectares or, if linear, kilometres)
- The condition of each habitat parcel
- How ecologically connected the site(s) are
- Whether the site(s) are in locations identified as local nature priorities

START	
Open tool on any laptop with spreadsheet software installed. Press "Open Tool".	

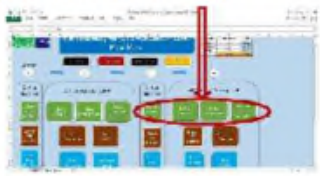
	
This is the start page. Input details of your project into "Project Details". **Remember to periodically save your work.**	
Click the "Main Menu" button. The Worksheet Menu will then open like this. The next steps explain how to enter the key data for your project.	

Step 1: Entering Baseline Data	
Click the green "On-site habitat baseline" button at the left hand side of the page:	
Fill in all of the white columns. Some allow you to select from drop-down lists, others (such as Area) require you to input data. The tool will start automatically populating the blue columns.	
Scroll right and fill in all remaining "white" columns. Complete a new row for every habitat parcel found on site.	
When you have finished entering all the site baseline data scroll left and click the "Main menu" button.	

Step 2: Entering On- Site Post-Development Data	
In the Main Menu there are three buttons to enter data; "Habitat Creation", "Habitat Enhancement" and "Habitat Accelerated Succession".	

BETA

Data can be entered into each as appropriate by clicking the relevant green button.	
When you click on each "on-site post development" button a new screen will open. Fill in each of the white columns as appropriate. You will need to complete a new row for each habitat parcel on-site. Image shows the habitat creation screen.	
When you have finished entering data click the "Main menu" Button in the top left of the screen to return to the worksheet menu.	
Complete the "On-site habitat enhancement" and "On-site habitat accelerated succession" if needed by clicking the buttons and filling in the white columns. When finished return to the "Main menu".	
If you are seeking to achieve a biodiversity net gain outcome on-site no further data input is needed. You can now skip to "Step 4" to check the results and see whether an on-site biodiversity net gain has been achieved.	

Step 3: Entering Off-Site Data (NOTE: only needed when creating or enhancing habitat outside the project 'red line' boundary)	
You may skip this step if you are not creating or enhancing any habitats outside your development site and proceed to Step 4. Projects creating or enhancing any habitats outside your development ("off-site") will need to enter baseline habitat and habitat enhancement/creation data. This data can be entered using the green buttons highlighted under points 3 and 4 of the tool.	
Off-site data should be entered into the white columns on each of the off-site sheets. When entering data scroll right on the screen to ensure that all white data entry fields are completed. Complete a new row for each habitat type found off-site.	
When all "off-site" data has been entered click on the 'main menu' button.	
Step 4: Hedgerows, Lines of Trees, Rivers and Streams	
If your project contains hedgerows, lines of trees or rivers, streams and watercourses then you will need to fill in the additional metric modules for these habitats. They are separate from the main metric as each uses a slightly different calculation.	

BETA TEST

On-site and off-site project data for these habitats should be entered in the same way as for area habitats by inputting data into the white columns.	
Step 5: The Results	
Click on the "Results" to see whether or not your project has achieved a forecast net biodiversity gain.	
On this screen you can click to see the "headline results", "detailed results" or the 'habitat trading summary'. In most circumstances only the 'headline' or 'detailed' results will be needed.	
The "headline results" page provides a breakdown of the biodiversity units lost and gained and the percentage loss or gain achieved in biodiversity units.	
For more detailed results click the "Detailed Results" button.	

Step 6: Saving and Submitting Your Assessment	
Go to save as and save the document as the same name as the user has put in the project title.	
Additional Functions	
Street Tree Helper The calculation tool also comes with a street tree helper to quickly convert your street tree measurements into an area calculation to use when calculating baseline and post-intervention values for street trees. Enter the number of trees of each size type and the tool will convert this into hectares.	
Technical Data Information about all of the technical data that underpins the calculation tool can be found by clicking the "Technical data" button on the main menu There is also a conversion tool	

BETA

There is also a conversion tool embedded into the technical data section to allow for easy conversion between Phase1 and UKHab classifications.	
Instructions A copy of these instructions can be accessed at any point in the tool by pressing the red instructions button	
Additional help and detailed instructions describing all of the functions of the calculation tool can be found in Chapter 4 of *The Biodiversity Metric 2.0 – User Guide*	

The Biodiversity Metric 2.0 - Calculation Tool
Main menu

Street tree helper		
Tree size	Tree number	Area
Small		0.0000
Medium		0.0000
Large		0.0000
Total	0.00	0.0000

Start page | Instructions | Technical data | Results

Start here

1 → 2 → 3 → 4

On-site baseline

- A-1 On-site habitat
- B-1 On-site hedge
- C-1 On-Site river baseline

On-site post development

- A-2 Habitat creation
- A-3 Habitat enhancement
- A-4 Habitat accelerated succession
- B-2 Hedgerow creation
- B-3 Hedgerow enhancement
- C-2 River creation
- C-3 River enhancement

Off-site baseline

- D-1 Off-site habitat
- E-1 Off-site hedge baseline
- F-1 Off-site river baseline

Off-Site post development

- D-2 Habitat creation
- D-3 Habitat enhancement
- D-4 Habitat accelerated succession
- E-2 Hedgerow creation
- E-3 Hedgerow enhancement
- F-2 River creation
- F-3 River enhancement

The Biodiversity Metric 2.0 - Calculation Tool

Return to start page

Headline results

Detailed results

Habitat trading summary

Omega Zone 8

Headline Results

Return to results menu

On-site baseline	*Habitat units*	147.15
	Hedgerow units	3.11
	River units	13.80
On-site post-intervention (Including habitat retention, creation, enhancement & succession)	*Habitat units*	73.03
	Hedgerow units	10.48
	River units	18.26
Off-site baseline	*Habitat units*	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention (Including habitat retention, creation, enhancement & succession)	*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)	*Habitat units*	**-74.12**
	Hedgerow units	7.37
	River units	4.46
Total net % change (including all on-site & off-site habitat creation + retained habitats)	*Habitat units*	**-50.37%**
	Hedgerow units	237.40%
	River units	32.31%

Return to results menu

Check Proposed Habitat Trading

Very high		
Habitat group	**Group**	**Existing area lost**
Grassland - Lowland dry acid grassland	Grassland	0.00
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00
Wetland - Blanket bog	Wetland	0.00
Wetland - Depressions on Peat Substrates (H7150)	Wetland	0.00
Wetland - Fens (upland and lowland)	Wetland	0.00
Wetland - Lowland raised bog	Wetland	0.00
Wetland – Oceanic Valley Mire[1] (D2.1)	Wetland	0.00
Wetland - Purple moor grass and rush pastures	Wetland	0.00
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00
Grassland - Lowland meadows	Grassland	0.00
Grassland - Upland hay meadows	Grassland	0.00
lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00
Rocky shore - High energy littoral rock - on bedrock	Rocky shore	0.00
Rocky shore - Moderate energy littoral rock - on bedrock	Rocky shore	0.00
Rocky shore - Low energy littoral rock - on bedrock	Rocky shore	0.00
Rocky shore - Features of littoral rock - on bedrock	Rocky shore	0.00
Intertidal sediment - Littoral sediments dominated by aquatic angiosperms - on bedrock	Intertidal sediment	0.00
Intertidal sediment - Littoral biogenic reefs - on bedrock	Intertidal sediment	0.00
Total impact to be addressed through separate mechanism		0.00

Any rows highlighted in red within this table highlight habitat types that require further compensation in order to deliver the required number of units to reach no net loss

High								
Habitat group	**Group**	**On-Site units lost**	**Units delivered on-site**	**On Site Unit Change**	**Units delivered off-site**	**Project wide Unit Change**	**Percentage change above loss**	**losses not yet accounted for**
Cropland - Traditional orchards	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Tall herb communities	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Lowland Heathland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Marl Lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Ponds (Priority Habitat)	Lakes	8.08	15.87	7.78	0.00	7.78		
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Open Mosaic Habitats on Previously Developed Land	Urban	0.00	0.00	0.00	0.00	0.00		
Wetland - Reedbeds	Wetland	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	45.39	34.22	-11.17	0.00	-11.17		-11.17
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	0.00	0.00		
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Littoral sand and muddy sand	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Coastal Saltmarsh -saltmarshes and saline reedbeds	Coastal Saltmarsh	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Littoral sediments dominated by aquatic angiosperms	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		

cumulative positive - this sums only the positive values in order for them to be utilised to offset any deficit in lower distinctiveness bands	7.78

Error - Compensation Not Like For Like

Trading Down Liability High Distinctiveness/Units	0.00
Not Like For Like/Units	-11.17

Intertidal sediment - Littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
				-3.38	0.00	-3.38		-11.17

Medium

Habitat Group	Group	On-Site units lost	Units delivered on-site	On site unit change	Units delivered off-site	Project wide unit change	Percentage change above loss	losses not yet accounted for
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Bracken	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Other neutral grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Bramble scrub	Heathland and shrub	1.63	0.00	-1.63	0.00	-1.63		-1.63
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Mixed scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Lakes - Ditches	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Allotments	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Artificial lake or pond	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Brown roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Extensive green roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Orchard	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Woodland	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other woodland; broadleaved	Woodland and forest	2.90	0.00	-2.90	0.00	-2.90		-2.90
Woodland and forest - Other woodland; mixed	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other woodland; Young Trees planted	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
				-4.53	0.00	-4.53		-4.53

Medium cumulative offset plus high surplus, this number must be a positive when offsite compensation is factored in	7.78

Error - Compensation not Like For Like or Better - acceptable if same broad habitat type

Trading Down Liability Medium Distinctiveness/Units	0.00
Not Like For Like or Better/Units	-4.53
Cumulative Trading Error	0.00

Low

Habitat group	Group	On-site units lost	Units delivered on-site	On site unit change	Units delivered off-site	Project wide unit change	Percentage change above loss	losses not yet accounted for
Cropland - Cereal crops	Cropland	45.28	0.00	-45.28	0.00	-45.28		-45.28
Cropland - Cereal crops other	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Horticulture	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Modified grassland	Grassland	22.44	0.00	-22.44	0.00	-22.44		-22.44
Heathland and shrub - Rhododendron scrub	Grassland	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Ruderal/Ephemeral	Heathland and shrub	0.00	0.33	0.33	0.00	0.33		
Urban - Bioswale	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Façade-bound green wall	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Ground based green wall	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Ground level planters	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Intensive green roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Introduced shrub	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Amenity grassland	Urban	0.00	3.12	3.12	0.00	3.12		
Urban - Rain garden	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Sand pit quarry or open cast mine	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Street Tree	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Suburban/ mosaic of developed/ natural surface	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Sustainable urban drainage feature	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Vacant/derelict land/ bareground	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Vegetated garden	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other coniferous woodland	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Artificial high energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Artificial moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Artificial low energy littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		
Rocky shore - Artificial features of littoral rock	Rocky shore	0.00	0.00	0.00	0.00	0.00		

Low cumulative offset plus high and medium surplus, this number must be a positive when offsite compensation is factored in	11.24

Error - Trading Down

Trading Down Liability High Distinctiveness/Units	-64.26
Cumulative Trading Error	-64.26

Check Proposed Habitat Trading

Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral sand and muddy sand	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral sediments dominated by aquatic angiosperms	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
Intertidal sediment - Artificial features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	0.00	0.00		
				-64.26		-64.26		-67.72

Omega Zone 8

A-1 Site Habitat Baseline

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

	Habitats and areas			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance				Ecological baseline	Retention category biodiversity value								Bespoke compensation agreed for unacceptable losses	Comments	
Ref	Broad Habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Suggested action to address habitat losses	Total habitat units	Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession	Area lost	Units lost		Assessor comments	Reviewer comments
1	Woodland and forest	Woodland and forest - Lowland mixed deciduous woodland	3.75	High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	Same habitat required	56.93	0	0.76		0.00	11.54	0.00	2.99	45.39		Area within local strategy as woodland covered by TPO's. 0.76ha of Duck Wood to be enhanced - removal of invasive species.	
2	Lakes	Lakes - Ponds (Priority Habitat)	0.79	High	6	Fairly Poor	1.5	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	Same habitat required	8.99	0.08			0.91	0.00	0.00	0.71	8.08		Ponds: Z, B, G, I, X, Xi, K, AZ, 4. H and BWP being retained	
3	Heathland and shrub	Heathland and shrub - Bramble scrub	0.37	Medium	4	Poor	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	1.63	0			0.00	0.00	0.00	0.37	1.63		Scrub located east of Woodland B and along Whittle Brook.	
4	Woodland and forest	Woodland and forest - Other woodland; broadleaved	0.33	Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	2.90	0			0.00	0.00	0.00	0.33	2.90		Scattered trees to be lost (surrounding ponds, along brook, eastern woodland belt for cable allignment). Not counted as strategically significant as they are not woodland blocks but scattered trees	
5																										
6	Woodland and forest	Woodland and forest - Lowland mixed deciduous woodland	0.57	High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	Same habitat required	8.65		0.57		0.00	8.65	0.00	0.00	0.00		Plain Plantation - located within Green Triangle and therefore outside the development area, however, it is being enhanced by OWL for the outline plot. Scored as 'moderate' due to covering of rhododendron.	
7	Grassland	Grassland - Modified grassland	10.2	Low	2	Poor	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	22.44				0.00	0.00	0.00	10.20	22.44		Improved grassland located to the south-eastern portion of the Site	
8	Cropland	Cropland - Cereal crops	20.58	Low	2	N/A - Agricultural	1	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	45.28	0			0.00	0.00	0.00	20.58	45.28			
9	Sparsely vegetated land	Sparsely vegetated land - Ruderal/Ephemeral	0.06	Low	2	Fairly Good	2.5	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	0.33	0.06			0.33	0.00	0.00	0.00	0.00		Most ditches contain dense or scattered bramble. Ruderal habitat here includes habitat within Ditch 9, along the south western boundary. Other ruderal habitats on site are short-lived at field boundaries and too small to map.	

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247																											
248	Total site area ha	36.65											Total Site baseline	147.15	0.14	1.33	0.00	1.24	20.19	0.00	35.18	125.72					

Omega Zone 8

A-2 Site Habitat Creation

Condense / Show Columns | Condense / Show Rows

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Post development/ post intervention habitats																		
						Ecological connectivity			Strategic significance			Temporal multiplier		Difficulty multipliers			Comments	
Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation category	Difficulty of creation multiplier	Habitat units delivered	Assessor comments	Reviewer comments
Woodland and forest - Lowland mixed deciduous woodland	2.05	High	6	Good	3	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	32+	0.320	High	0.33	4.93	53.66% of mitigation within 'Green Triangle' given to outline area (outline occupies 53.66% of developable area)	
Lakes - Ponds (Priority Habitat)	0.18	High	6	Good	3	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	Medium	0.67	1.92	53.66% of mitigation within 'Green Triangle' given to outline area (outline occupies 53.66% of developable area)	
Grassland - Lowland meadows	1.59	V.High	8	Good	3	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	15	0.586	High	0.33	8.93	53.66% of mitigation within 'Green Triangle' given to outline area (outline occupies 53.66% of developable area)	
Woodland and forest - Lowland mixed deciduous woodland	3.11	High	6	Good	3	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	32+	0.320	High	0.33	7.47	Woodland planting in outline (29,193m2). Woodland planting along cycle route (1,888m2)	
Grassland - Lowland meadows	1.88	V.High	8	Good	3	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	15	0.586	High	0.33	10.56	Grassland created surrounding attenuation features in outline (14,280m2) and along cycle route (4,569m2)	
Urban - Amenity grassland	0.79	Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1	3.12	Grassland adjacent to paths in outline (1,106m2) and along cycle path (6,772m2)	
Lakes - Ponds (Priority Habitat)	1.22	High	6	Good	3	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	Medium	0.67	13.03	Attenuation features created within Outline planning area to the northwest of the plot and southeast of the plot.	
Urban - Developed land; sealed surface	24.36	V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	1.000	Low	1	0.00		

Totals	35.18														Total Units	49.97		

Omega Zone 8

A-3 Site Habitat Enhancement

Condense / Show Columns | Condense / Show Rows

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Baseline habitats		Post development/ post intervention habitats											Comments	
		Change in distinctiveness and condition						Ecological connectivity	Strategic significance	Temporal multiplier	Difficulty multipliers			
Baseline ref	Baseline habitat	Proposed habitat (Pre-populated but can be overridden)	Distinctiveness change	Condition change	Area (hectares)	Distinctiveness	Condition	Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of enhancement category	Habitat units delivered	Assessor comments	Reviewer comments
1	Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest - Lowland mixed deciduous woodland	High - High	Moderate - Good	0.76	High	Good	Medium	Within area formally identified in local strategy	20	High	12.47	Targeted removal of invasive species (rhododendron) and understorey planting of native species within retained area of Duck Wood	
6	Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest - Lowland mixed deciduous woodland	High - High	Moderate - Good	0.57	High	Good	Medium	Within area formally identified in local strategy	20	High	9.35	Targeted removal of invasive species (rhododendron) and understorey planting of native species within Plain Plantation (within the Green Triangle)	

				Total site area	1.33						Enhancement total	21.82			

Omega Zone 8

B-1 Site Hedge Baseline

Condense / Show Columns | Condense / Show Rows

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	UK Habitats - existing habitats			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance				Ecological baseline	Retention category biodiversity value						Comments	
Baseline ref	Hedge number	Hedgerow type	length KM	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Suggested action to address habitat losses	Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments	Reviewer comments
1		Native Hedgerow	0.25	Low	2	Moderate	2	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.15	0		0	0	0.25	1.15	HR 1	
2		Native Hedgerow	0.17	Low	2	Poor	1	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.391	0		0	0	0.17	0.391	HR 2	
3		Line of Trees - Associated with bank or ditch	0.34	Low	2	Moderate	2	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.564	0		0	0	0.34	1.564	tree line along whittle brook and connecting Big Belt Wood with Woodland B	
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		Total Site length/KM	0.76											Total Site baseline	3.11	0.00	0.00	0.00	0.00	0.76	3.11		

Omega Zone 8

B-2 Site Hedge Creation

Condense / Show Columns | Condense / Show Rows

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		Proposed habitats		Habitat distinctiveness		Habitat condition		Multipliers: Spatial quality: Ecological connectivity			Multipliers: Spatial quality: Strategic significance			Multipliers: Temporal multiplier		Difficulty of creation multiplier	Hedge units delivered	Comments	
Baseline ref	New hedge number	Habitat type	Length km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier			Assessor comments	Reviewer comments
1		Native Species Rich Hedgerow	0.19	Medium	4	Good	3	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	0.67	1.23	53.66% of mitigation given to outline area (outline occupies 53.66% of developable area)	
2		Native Species Rich Hedgerow	0.659	Medium	4	Good	3	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	0.67	4.27	Hedgerow to be planted along cycle route	
3		Native Species Rich Hedgerow	0.769	Medium	4	Good	3	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	0.67	4.98	Hedgerow within outline plot	
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		Creation Length/KM	1.62														10.48		

Omega Zone 8

C-1 Site River Baseline

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Existing river type			Habitat distinctiveness		Habitat condition		Strategic significance				Ecological baseline	Retention category biodiversity value						Comments	
Baseline ref	River type	length KM	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Sugested action	Total river units	Length retained	Length enhanced	Units retained	Units enhanced	Length impacted	Units Lost	Assessor Comments	Reviewer comments
1	Rivers & Streams (Other)	1.5	Medium	4	Fairly Poor	2	Within River Basin Management Plan	High strategic significance	1.15	Avoid	13.8		0.9	0	8.28	0.6	5.52	The length of the brook has been calculated for that which runs along the boundary of the plot (from the north of Booth's Wood, and eventually along the southern boundary to the southeast), and that which flows through the plot itself. The condition has been given 'Moderate' owing to the amount of invasive species throughout (Himalayan balsam throughout its length, locally abundant at times), and due to the highly-modified nature due to adjacent land practices / siltation / run-off. Additionally, no submered vegetation exists within the brook. This is further in-keeping with the Environment Agency overall condition assessment.	
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	Total site length KM	1.50								Total Site	13.80	0.00	0.90	0.00	8.28	0.60	5.52			

Omega Zone 8

C-2 Site River Creation

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

	Proposed habitats		Habitat distinctiveness		Habitat condition		Strategic significance			Temporal multiplier		Difficulty of creation category	Difficulty of creation multiplier	Riparian encroachment		River units delivered	Comments	
Baseline ref	River type	Length km	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier			Extent of encroachment	Multiplier		Assessor comments	Reviewer comments
1	Rivers & Streams (Other)	0.7	Medium	4	Good	5	Delivery within River Basin Management Plan	High strategic significance	1.15	10	0.700	High	0.33	0m	1	3.72	The sinuous section which currently cuts through the site will be diverted towards the eastern boundary. The newly diverted section of the watercourse must be designed to increase upon the exisitng quality of the watercourse under the WFD.	
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	Creation Length/KM	0.70														3.72		

Omega Zone 8

C-3 Site River Enhancement

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

Baseline habitats												Post development/ post intervention habitats																				
												Proposed (Pre-populated can be overridden)	Change in distinctiveness and condition							Strategic significance			Temporal multiplier		Difficulty multipliers		Riparian encroachment		River units delivered	Comments	
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	Suggested action	Total units		Distinctiveness movement	Condition movement	Length KM	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of enhancement category	Difficulty of enhancement multiplier	Extent of encroachment	Multiplier		Assessor comments	Reviewer comments
1	Rivers & Streams (Other)	1.5	Medium	4	Fairly Poor	2	Within River Basin Management Plan	High strategic significance	1.15	Avoid	13.8	Rivers & Streams (Other)	Medium - Medium	Fairly Poor - Good	0.9	Medium	4	Good	5	Delivery within River Basin Management Plan	High strategic significance	1.15	8	0.752	Medium	0.67	0m	1	14.54	For the section of enhanced river (which exists along the current site boundaries) will maintain their riparian 10m buffer via landscaping to the south and along the cycle route.	

															0.90												Enhancement total		14.54		

Omega Zone 8

D-1 Off Site Habitat Baseline

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

	Habitats and areas			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance				Ecological baseline	Retention category biodiversity value								Bespoke compensation agreed for unacceptable losses	Comments	
Baseline ref	Broad habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Suggested action to address habitat losses	Total habitat units	Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession	Area lost	Units lost		Assessor comments	Reviewer comments
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Omega Zone 8

D-2 Off Site Habitat Creation

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

						Post development/ post intervention habitats														
						Ecological connectivity			Strategic significance			Temporal multiplier		Difficulty multipliers		Spatial risk multiplier			Comments	
Proposed habitat	Area ha	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation category	Difficulty of creation multiplier	Spatial risk category	Spatial risk multiplier	Habitat units delivered	Assessor comments	Reviewer comments

Totals	0.00	Total Units	0.00

Omega Zone 8

D-3 Off Site Habitat Enhancment

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

Baseline habitats		Post development/ post intervention habitats												Comments	
			Change in distinctiveness and condition					Ecological connectivity	Strategic significance	Temporal multiplier	Difficulty multipliers	Spatial risk multiplier			
Baseline ref	Baseline habitat	Proposed habitat (Pre-Populated but can be overridden)	Distinctiveness change	Condition change	Area ha	Distinctiveness	Condition	Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of enhancement category	Spatial risk category	Habitat units delivered	Assessor comments	Reviewer comments

				Total site area	0.00							Total off-site area	0.00				

Omega Zone 8

E-2 Off Site Hedge Creation

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

		Proposed habitats						Ecological connectivity			Strategic significance			Spatial risk multiplier		Temporal multiplier		Difficulty multiplier			Comments	
Baseline ref	New hedge number	Habitat type	Length km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Spatial risk category	Spatial risk multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation category	Difficulty of creation multiplier	Hedge units delivered	Assessor comments	Reviewer comments
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