

The Biodiversity Metric 2.0 - Calculation Tool

Start page

Project details

Planning authority:	
Project name:	██████ to ██████ Route_4_No_Sites_Habitat.
Applicant:	Southern Water
Application type:	
Planning application reference:	
Assessor:	TP
Reviewer:	LP
Revision:	
Assessment date:	28/04/2021
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

Main menu

Start page

Instructions

Technical data

Results

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

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](#)

[Return to](#)

On-site baseline	Habitat units
	Hedgerow units
	River units
On-site post-intervention <small>(including habitat retention, creation, enhancement & succession)</small>	Habitat units
	Hedgerow units
	River units
Off-site baseline	Habitat units
	Hedgerow units
	River units
Off-site post-intervention <small>(including habitat retention, creation, enhancement & succession)</small>	Habitat units
	Hedgerow units
	River units
Total net unit change <small>(including all on-site & off-site habitat retention/creation)</small>	Habitat units
	Hedgerow units
	River units
Total net % change <small>(including all on-site & off-site habitat creation + retained habitats)</small>	Habitat units
	Hedgerow units
	River units

Summary Figures

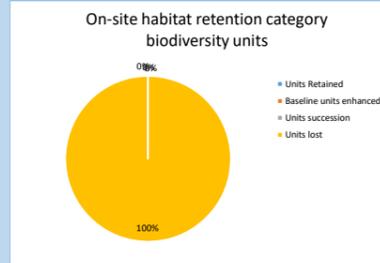
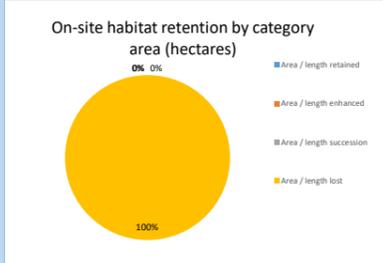
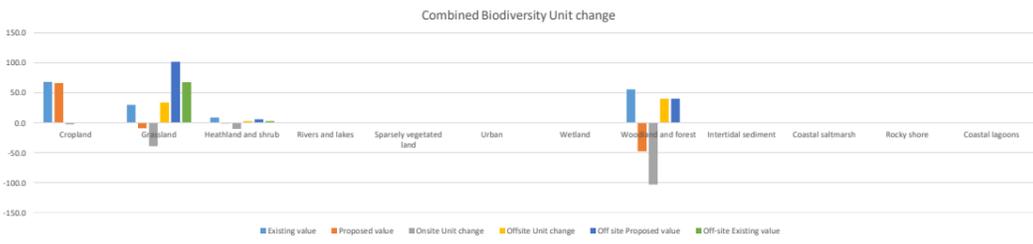
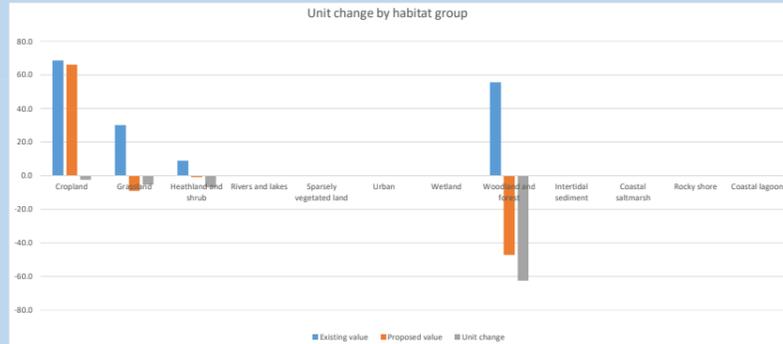
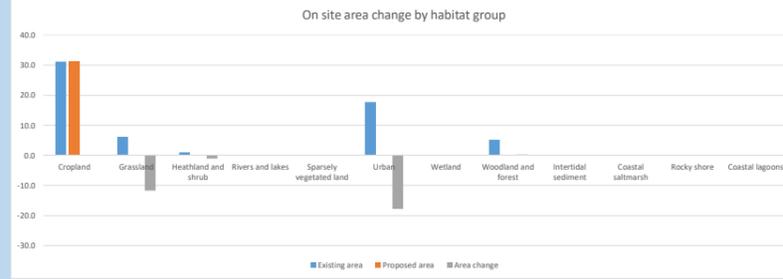
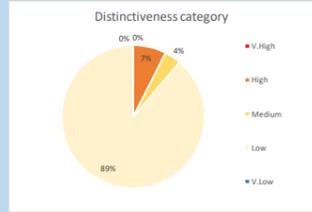
Net project biodiversity units (including all on-site & off-site habitat retention/creation)	Habitat units	
	Hedgerow units	
	River units	
Total project biodiversity % change (including all On-site & Off-site Habitat Creation + Retained Habitats)	Habitat units	
	Hedgerow units	
	River units	

On-site habitat retention and enhancement

	Habitats	Hedgerows	Rivers
Total site area / length			
Total site units			
Area / length retained			
Units Retained			
Area / length enhanced			
Baseline units enhanced			
Area / length succession			
Units succession			
Area / length lost			
Units lost			

lost by distinctiveness I

Category	Area lost (hectares)	Area lost (%)
V.High		
High		
Medium		
Low		
V.Low		



On-site	Baseline		Post development on site			Onsite Change
	Existing area	Existing value	Proposed area	Proposed value	Area change	Onsite Unit change
Cropland						
Grassland						
Heathland and shrub						
Rivers and lakes						
Sparsely vegetated land						
Urban						
Wetland						
Woodland and forest						
Intertidal sediment						
Coastal saltmarsh						
Rocky shore						
Coastal lagoons						

Overall Change	
Area change	Unit change

Off-site	Baseline		Post development Off-site		Off-site Change	
	Existing area	Off-site Existing value	Proposed area	Off site Proposed value	Area change	Offsite Unit change
Cropland						
Grassland						
Heathland and shrub						
Rivers and lakes						
Sparsely vegetated land						
Urban						
Wetland						
Woodland and forest						
Intertidal sediment						
Coastal saltmarsh						
Rocky shore						
Coastal lagoons						

Combined	Baseline		Combined Post development		Combined change	
	Existing area	Existing value	Proposed area	Proposed value	Proposed area	Proposed value
Cropland						
Grassland						
Heathland and shrub						
Rivers and lakes						
Sparsely vegetated land						
Urban						
Wetland						
Woodland and forest						
Intertidal sediment						
Coastal saltmarsh						
Rocky shore						
Coastal lagoons						

to Route_4_No_Sites_Habitat.
A-1 Site Habitat Baseline

Condense / Show Columns Condense / Show Rows
 Main Menu Instructions

Ref	Habitats and areas		Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance			Suggested action to address habitat losses	Ecological baseline Total habitat units	Retention category biodiversity value							Bespoke compensation agreed for unacceptable losses	Comments	
	Broad Habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance			Strategic position multiplier	Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession		Area lost	Units lost
1	Cropland	Cropland - Cereal crops		Low	2	N/A - Agricultural	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required				0.00	0.00	0.00				
2	Grassland	Grassland - Other neutral grassland		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				0.00	0.00	0.00				
3	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required				0.00	0.00	0.00				
4	Heathland and shrub	Heathland and shrub - Mixed scrub		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				0.00	0.00	0.00				
5	Heathland and shrub	Heathland and shrub - Mixed scrub		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				0.00	0.00	0.00				
6	Heathland and shrub	Heathland and shrub - Mixed scrub		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				0.00	0.00	0.00				
7	Heathland and shrub	Heathland and shrub - Mixed scrub		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				0.00	0.00	0.00				
8	Urban	Urban - Developed land; sealed surface		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation Not Required				0.00	0.00	0.00				
9	Urban	Urban - Built linear features		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation Not Required				0.00	0.00	0.00				
10	Woodland and forest	Woodland and forest - Lowland mixed deciduous woodland		High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required				0.00	0.00	0.00				
11	Woodland and forest	Woodland and forest - Other coniferous woodland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required				0.00	0.00	0.00				

to **Route_4_No_Sites_Habitat.**

A-2 Site Habitat Creation

Condense / Show Columns Condense / Show Rows

Main Menu Instructions

Post development/ post intervention habitats																		
Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity			Strategic significance			Temporal multiplier		Difficulty multipliers		Habitat units delivered	Comments	
						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		Assessor comments	Reviewer comments
Cropland - Cereal crops		Low	2	N/A - Agricultural	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	1	0.965	Low	1			
Grassland - Other neutral grassland		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	Low	1			
Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Urban - Developed land; sealed surface		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	0	1.000	Low	1			
Urban - Built linear features		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	0	1.000	Low	1			
Woodland and forest - Lowland mixed deciduous woodland		High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	32+	0.320	High	0.33			
Woodland and forest - Other coniferous woodland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	25	0.410	Low	1			

to Route_4_No_Sites_Habitat.
B-1 Site Hedge Baseline

Condense / Show Columns Condense / Show Rows
 Main Menu Instructions

Baseline ref	Hedge number	UK Habitats - existing habitats		Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance			Ecological baseline Total hedgerow units	Retention category biodiversity value						Comments	
		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	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments
1		Native Species Rich Hedgerow		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better			0	0				
2		Native Species Rich Hedgerow with trees		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better			0	0				

to Route_4_No_Sites_Habitat.
B-2 Site Hedge Creation

Condense / Show Columns Condense / Show Rows
 Main Menu Instructions

		Multipliers																
		Spatial quality									Temporal multiplier		Difficulty of creation multiplier	Hedge units delivered	Comments			
Baseline ref	New hedge number	Proposed habitats		Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance				Time to target condition/years	Time to target multiplier	Assessor comments	Reviewer comments
		Habitat type	Length km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier					
1		Native Species Rich Hedgerow		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	5	0.837	0.67		
2		Native Species Rich Hedgerow with trees		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	0.67		

to **Route_4_No_Sites_Habitat.**
D-1 Off Site Habitat Baseline

Condense / Show Columns Condense / Show Rows

Main Menu Instructions

Baseline ref	Habitats and areas			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance			Suggested action to address habitat losses	Ecological baseline Total habitat units	Retention category biodiversity value							Bespoke compensation agreed for unacceptable losses	Comments	
	Broad habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier			Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession	Area lost		Units lost	Assessor comments
1	Grassland	Grassland - Modified grassland		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			9	0	19.80	0.00					
2	Grassland	Grassland - Other neutral grassland		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			0.37	0	3.26	0.00					
3	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required			4.72	0	20.77	0.00					
4	Heathland and shrub	Heathland and shrub - Mixed scrub		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			0.65	0	2.86	0.00					
5	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required				5.5	0	0.00	24.20				

to Route_4_No_Sites_Habitat.

D-3 Off Site Habitat Enhancement

Condense / Show Columns Condense / Show Rows

Main Menu Instructions

Baseline habitats		Change in distinctiveness and condition			Post development/ post intervention habitats								Comments		
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	Temporal multiplier	Difficulty of enhancement category	Spatial risk category	Habitat units delivered	Assessor comments	Reviewer comments
1	Grassland - Modified grassland	Grassland - Other neutral grassland	Low - Medium	Lower Distinctiveness Habitat - Moderate		Medium	Moderate	Low	Location ecologically desirable but not in local strategy	10	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
2	Grassland - Other neutral grassland	Grassland - Lowland meadows	Medium - V.High	Lower Distinctiveness Habitat - Moderate		V.High	Moderate	Medium	Location ecologically desirable but not in local strategy	10	Medium	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
3	Grassland - Modified grassland	Grassland - Other neutral grassland	Low - Medium	Lower Distinctiveness Habitat - Moderate		Medium	Moderate	Low	Location ecologically desirable but not in local strategy	10	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
4	Heathland and shrub - Mixed scrub	Heathland and shrub - Mixed scrub	Medium - Medium	Poor - Moderate		Medium	Moderate	Medium	Location ecologically desirable but not in local strategy	5	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			

to **Route 4 No Sites Habitat.**

D-4 Off Site Habitat Succession

Condense / Show Columns Condense / Show Rows

Main Menu **Instructions**

Baseline habitats		Proposed habitat	Change in distinctiveness and condition		Post development/ post intervention habitats								Habitat units delivered	Comments	
Baseline ref	Baseline habitat		Distinctiveness change	Condition change	Area ha	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Temporal multiplier	Difficulty multipliers	Spatial risk multiplier		Assessor comments	Reviewer comments
							Ecological connectivity score			Time to target condition/years	Difficulty of creation category	Spatial risk category			
5	Grassland - Modified grassland	Woodland and forest - Lowland mixed deciduous woodland	Low - High	Lower Distinctiveness Habitat - Moderate		High	Moderate	Medium	Location ecologically desirable but not in local strategy	32+	High	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			

to [redacted] Route 4 No Sites Habitat.

E-2 Off Site Hedge Creation

Condense / Show Columns Condense / Show Rows

Main Menu Instructions

Baseline ref	New hedge number	Proposed habitats		Distinctiveness	Score	Condition	Score	Ecological connectivity			Strategic significance			Spatial risk multiplier		Temporal multiplier		Difficulty multiplier		Hedge units delivered	Comments	
		Habitat type	Length km					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		Assessor comments	Reviewer comments
1		Native Species Rich Hedgerow	[redacted]	Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	5	0.837	Medium	0.67	[redacted]		
2		Native Species Rich Hedgerow with trees	[redacted]	Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	10	0.700	Medium	0.67	[redacted]		