

The Biodiversity Metric 2.0 - Calculation Tool

Start page

Project details

Planning authority:	
Project name:	SWS - [redacted] to [redacted] - Route 1
Applicant:	Southern Water
Application type:	
Planning application reference:	
Assessor:	TP
Reviewer:	LP
Revision:	
Assessment date:	
Planning authority reviewer:	

Cell style conventions

	Enter data
	Automatic lookup
	Result

Instructions

Main menu

Results

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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

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3

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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

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Headline Results

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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	

A-1 Site Habitat Baseline

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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	Lakes	Lakes - Ponds (Non- Priority Habitat)		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				
6	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				
7	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				
8	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				
9	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				

A-2 Site Habitat Creation

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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			
Lakes - Ponds (Non- Priority Habitat)		High	6	moderate	2	medium	Moderately connected habitat	1.1	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			

D-1 Off Site Habitat Baseline

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Baseline ref	Habitats and areas			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance			Suggested action to address habitat losses	Ecological baseline	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			Total habitat units	Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced		Baseline units succession	Area lost	Units lost
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			6	0	13.20	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			1.695	0	14.92	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			6.78	0	29.83	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			1.695	0	7.46	0.00					
5	Lakes	Lakes - Ponds (Non- Priority Habitat)		High	6	Poor	1	medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required			0.02825	0	0.21	0.00					
6	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				13.56	0	0.00	59.66				

D-3 Off Site Habitat Enhancement

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Baseline habitats		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		compensation for - Cropland - Cereal crops	
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		compensation for - Grassland - Other neutral grassland	
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		compensation for - Grassland - Modified grassland	
4	Heathland and shrub - Mixed scrub	Heathland and shrub - Mixed scrub	Medium - Medium	Poor - Moderate		Medium	Moderate	Low	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		compensation for - Heathland and shrub - Mixed scrub	
5	Lakes - Ponds (Non- Priority Habitat)	Lakes - Ponds (Non- Priority Habitat)	High - High	Poor - Moderate		High	Moderate	Medium	Location ecologically desirable but not in local strategy	2	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss		compensation for - Lakes - Ponds (Non- Priority Habitat)	

D-4 Off Site Habitat Succession

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Baseline habitats		Proposed habitat	Change in distinctiveness and condition		Post development/ post intervention habitats								Comments		
Baseline ref	Baseline habitat		Distinctiveness change	Condition change	Area ha	Distinctiveness	Condition	Ecological connectivity score	Strategic significance	Temporal multiplier	Difficulty of creation category	Spatial risk category	Habitat units delivered	Assessor comments	Reviewer comments
6	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		compensation for both broadleaf and coniferous woodland	

E-2 Off Site Hedge Creation

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Proposed habitats		Distinctiveness	Score	Condition	Score	Ecological connectivity			Strategic significance			Spatial risk multiplier		Temporal multiplier		Difficulty multiplier		Hedge units delivered	Comments		
Baseline ref	New hedge number					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
1		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	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	10	0.700	Medium	0.67		
2		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	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	5	0.837	Medium	0.67		