Land at Millom School, Salthouse Road, Millom LA18 5AB

PRELIMINARY ASSESSMENT OF BIODIVERSITY NET GAIN

February 2025

ERAP (Consultant Ecologists) Ltd Reference: 2023-044b

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Document Control

Survey Type:	Surveyors	Survey Date(s)	
UK Habitat Classification	Brian Robinson	19 th September 2024	
Survey (including Condition			
Assessments of habitats).			
Reporting	Personnel	Date	
Author	Brian Robinson B.Sc. (Hons) MCIEEM	Version 1: 14 th October 2024	
	Senior Ecologist	Version 2: 24 th January 2025	
Signature(s)	n.m.		
Version 1 Checked by	Rachel Brown B.Sc. (Hons)	15 th October 2024	
Version 2 Checked by	Rachel Brown B.Sc. (Hons)	5 th February 2025	
Revised and issued by	Brian Robinson B.Sc. (Hons) MCIEEM Version 1: 15 th Octo		
		Version 2: 5 th February 2025	
Report issued to	Cohesion Consult Ltd		
Version Number	2: Version 1 updated to include additional land within the ownership of the client		
	to attain net gain.		



1.0 INTRODUCTION

1.1 Background and Rationale

- 1.1.1 ERAP (Consultant Ecologists) Ltd was commissioned by Cohesion Consult Ltd to carry out an assessment of Biodiversity Net Gain (BNG) at Land at Millom School, Salthouse Road, Millom LA18 5AB (hereafter the 'site'). The Ordnance Survey (OS) grid reference at the centre of the Millom School site is SD 17445 80567.
- 1.1.2 The assessment was requested in connection with a planning application proposing the redevelopment of areas within the Millom School site.
- 1.1.3 The proposals will occur at five areas within the Millom School site (three of which are adjoining). Table1.1 present the area and change of use proposed at each of the locations.

Area Reference	Central OS Grid	Total Area	Change of Use Proposed
	Reference	(hectares)	
Change of Land Use A and E	SD 17393 80507	0.3458	Demolition of existing building and removal of amenity grassland for new building with fenced service yard, footpaths, car parking and amenity grassland
Change of Land Use B	SD 17397 80395	0.1825	Extended hard standing playground area and artificial playing field access
Change of Land Use C	SD 17270 80471	0.1604	Demolition of disused building and grounds and provision of additional car parking
Additional Land 1	SD 17443 80522	0.1021	Area of grassland to be enhanced to attain BNG as part of the proposed development.
Additional Land 2	SD 17406 80448	0.0199	Area of grassland to be enhanced to attain BNG as part of the proposed development.
Additional Land 3	SD 17411 80434	0.0080	Area of grassland to be enhanced to attain BNG as part of the proposed development.
Additional Land 4	SD 17357 80658	0.1302	Area of grassland with urban trees to be enhanced to attain BNG as part of the proposed development.
Additional Land 5	SD 17352 80570	0.4509	Area of grassland to be temporarily affected before being revegetated
	Total	1.3998	

Table 1.1: Locations at Which Works are Proposed

- 1.1.4 It has been considered suitable, in this instance, to determine the baseline value of the habitats at the areas to be affected by the works and those where enhancements are proposed only; it is considered that determine the value of the whole school area would disproportionately overvalue the baseline habitats within the site.
- 1.1.5 This BNG assessment has been prepared to provide an assessment of the biodiversity value of the baseline of the site, an assessment of the value of post-development habitats based on the site proposals and landscape strategy, and provides guidance in relation to the requirements to attain a net gain in accordance with accordance with *Biodiversity Net Gain: Good Practice Principles for Development* (CIEEM, 2016).



1.1.6 This report also advises on how compliance with Chapter 15, paragraph 193(d) of the National Planning Policy Framework (NPPF) (Ministry of Housing, Communities & Local Government, 2024)¹ can be achieved, which states 'opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate'.

1.2 Site Description

- 1.2.1 An aerial image of the site and areas to be affected by the proposed development is appended at Figure 1.
- 1.2.2 The total area of the areas to be affected (including all additional areas) is **1.3998 hectares**².
- 1.2.3 The habitats present within the site are described and assessed in *2023-044b Millom School, Ecological Survey and Assessment* (ERAP (Consultant Ecologists) Ltd, 2024), hereafter referred to as the 'ecology report'.
- 1.2.4 A summary of the habitats present within the site is presented at **Section 3.1** of this report.

1.3 Proposed Development Description

1.3.1 The assessment has been requested to inform a planning application for the proposed redevelopment at the site. The proposals are presented at *Millom Activity Centre: Proposed Site Plan Drawing No. 24015-2001 Revision PO1* (Architects Plus, 2024), hereafter the 'proposals plan'.

1.4 Scope of Study

- 1.4.1 This report has been prepared to accompany a completed assessment of BNG using *The Statutory Biodiversity Metric Calculation Tool* (Natural England, 2023). The completed Microsoft Excel spreadsheet assessment is presented as a separate document, named *'ERAP Ltd 2023-044b Millom School Statutory Biodiversity Metric 24.01.25'*, hereafter referred to as the 'BNG Metric'.
- 1.4.2 It is intended that this report provides a transparent assessment to demonstrate the calculation of net gain, based on the reasonable parameters assumed for the proposals (refer to **Section 2.3**). This approach has been applied on a number of other sites ERAP (Consultant Ecologists) Ltd has assisted with and has been accepted by the relevant Local Planning Authorities (LPA) and their ecological advisors to enable a planning application to progress.

¹ Hereafter the NPPF

² As measured by ERAP (Consultant Ecologists) Ltd; detail on the methods used to measure the area of the site are presented at **Section 2.0**. It has been considered suitable in this instance, given the sometimes small areas of habitat within the site, to provide habitats in hectares to 4 decimal places (i.e. m² accuracy).



2.0 METHOD OF SURVEY

2.1 Habitat Assessment and Mapping

Baseline Habitats

- 2.1.1 A Phase 1 Habitat Survey including an assessment in accordance with the UKHab and condition assessments of the habitats present was carried out by Brian Robinson B.Sc. (Hons) MCIEEM on 19 September 2024. The weather was dry and sunny with a light air (Beaufort scale 1) and an air temperature of 20°C.
- 2.1.2 On site habitat mapping was assisted via use of GPS technology and QField on-site mapping software, using the 'Tree Constraints Plan' presented in *Millom School, Salthouse Road, Millom, Cumbria LA18 5AB: Arboricultural Impact Assessment Ref BTC2691* (Bowland Tree Consultancy Ltd, 2023), hereafter the 'AIA report', and *ESRI World Imagery* as base plans. The Tree Constraints Plan presented in the AIA report has been provided to ERAP (Consultant Ecologists) Ltd as a .pdf file, which has been inputted to QGIS and spatially referenced to match ESRI World Imagery.
- 2.1.3 Each of the habitats within the site has been assessed in accordance with the UKHab to determine each habitat type present. This has allowed a reliable classification of habitats in accordance with those used by the BNG Metric.
- 2.1.4 The UKHab has been designed to function at two scales: fine scale (25m² or 5 metres length) and large scale (400m² or 20m² length). It has been considered for the purposes of this survey (where the UKHab has been used to inform the BNG calculation of a relatively small area) that a finer scale of 5m² is appropriate for the classification of habitats.
- 2.1.5 A plan showing the baseline habitats present within the site in accordance with UKHab symbology is appended at **Figure 2**.
- 2.1.6 Condition Assessments for each of the habitats present within the site have been completed in accordance with *The Statutory Biodiversity Metric Technical Annex 1: Condition Assessment Sheets and Methodology* (Natural England, November 2023) and are appended at **Section 7.1**.

Post-development Habitats

- 2.1.7 The post development habitats have been calculated using *Millom Activity Centre: Proposed Site Plan Drawing No. 24015-2001 Revision P01* (Architects Plus, 2024). This plan has been provided to ERAP (Consultant Ecologists) Ltd as a .pdf which has been inputted to QGIS and spatially referenced to match the Tree Constraints Plan and ESRI World Imagery.
- 2.1.8 A plan showing the proposed habitats (including the initial recommendations for compensation) in accordance with UKHab symbology is appended at **Figure 3.** Target condition assessments for each of the proposed habitats are appended at **Section 7.2**.



2.2 Survey and Reporting Limitations

- 2.2.1 All measurements have been either estimated whilst on site or measured using QGIS.
- 2.2.2 A detailed landscaping scheme has not been provided for the site. As described at **Section 4.0** below, this report provides a detailed assessment of the ecological value of the baseline habitats (in accordance with the BNG Metric) prior to development and a preliminary assessment of the ecological value of the site post development in accordance with the proposed habitats outlined at the proposals plan.

2.3 Evaluation Methods and Rules Applied

Habitats and Assessment

- 2.3.1 Habitats have been assessed to determine whether they meet those described in UK Biodiversity Action Plan: Priority Habitat Descriptions (Maddock, A (ed), 2008); these lists are used to help draw up the statutory lists of Priority Habitats, as required under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006. Where suitable, the ecological value of the habitats present has been assessed using the terms outlined in Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine (CIEEM, 2018).
- 2.3.2 QGIS has been used to calculate the total area / length of each baseline habitat present within the site and the area / length of the proposed habitats at the site.
- 2.3.3 Each habitat and individual trees have been assessed to determine whether they are 'irreplaceable habitat', defined in NPPF as 'Habitats which would be technically very difficult (or take a very significant time) to restore, recreate or replace once destroyed, taking into account their age, uniqueness, species diversity or rarity. They include ancient woodland, ancient and veteran trees, blanket bog, limestone pavement, sand dunes, salt marsh and lowland fen'. The further detail presented in The Biodiversity Gain Requirements (Irreplaceable Habitat) Regulations 2024 (GOV.UK, 2023) document has also been referred to.
- 2.3.4 Existing individual trees have been measured using the Diameter at Breast Height (DBH) calculations presented in the AIA report inputted into the tree calculation tool provided by the BNG Metric. Proposed urban trees have been assessed to be of the 'small' size category in accordance with current guidance.

Relevant Guidance

2.3.5 Government advice on wildlife, as set out in the NPPF and associated government circulars has been taken into consideration.

Assumptions

2.3.6 Reasonable assumptions have been made in relation to the condition assessments for the proposed habitats at the site; the proposed condition assessment for each habitat is appended at **Section 7.2**. Long-term management of the proposed habitats is required to secure the proposed condition.



3.0 SURVEY RESULTS

3.1 Site Description

- 3.1.1 Refer to **Figure 2**. The areas of the site at which development is proposed comprise the following (note all tree references are in accordance with the AIA report):
 - a. Areas of Bramble scrub, tall-herb, other neutral grassland, amenity grassland, vegetation colonising hard standing, ornamental shrubs, hard standing, buildings and trees T19, T20, T21, T22 and G11, located at the former bungalow and its grounds;
 - b. Areas of amenity grassland, hard standing and buildings associated with the remainder of the site. A single hedgerow is located at the area of amenity grassland at the southern end of the site associated with Change of Land Use B; and
 - c. An area of other neutral grassland, Blackthorn scrub and urban trees located to the west of the existing playing field (to be enhanced for its biodiversity value to attain net gain under the BNG).

3.2 Assessment of Baseline Habitats

- 3.2.1 **Tables 3.1** to **3.3** provide a summary of the habitats present, their condition assessment result and their area within the site. Condition assessments for each habitat are appended at **Section 7.1**.
- 3.2.2 Note that there is no equivalent habitat for individual trees in Phase 1 Habitat Survey terminology.

Habitat	UK Habitat	BNG Habitat	Phase 1 Habitat	Condition	Area
Reference	Classification Type	Equivalent	Equivalent	Assessment	(ha)
				Result	
Habitat 01:	h3d Bramble scrub	Heathland and	A2.1 Dense continuous	Condition	0.0018
Bramble scrub	with the secondary	shrub - Mixed	scrub	Assessment	
	codes 203 mature	scrub		N/A	
	tree and 518				
	neglected.				
Habitat 02:	g3 neutral grassland	Sparsely	B6 Poor semi-improved	Poor	0.0083
Tall forbs	with the secondary	vegetated land	grassland		
	code 16 tall forbs.	- Tall forbs			
Habitat 03:	g3c other neutral	Grassland -	B6 Poor semi-improved	Poor	0.0532
Other neutral	grassland with the	Other neutral	grassland		
grassland 1	secondary code 32	grassland			
	scattered trees				
Habitat 04:	g4 modified grassland	Grassland -	J1.2	Poor	0.5250
Amenity	with the secondary	Modified	Cultivated/disturbed		
grassland 1	codes 108 frequently	grassland	land - amenity		
	mown and 32		grassland		
	scattered trees				
Habitat 05:	g4 modified grassland	Grassland -	J1.2	Poor	0.3353
Amenity	with the secondary	Modified	Cultivated/disturbed		
grassland 2	code 108 frequently	grassland	land - amenity		
(playing field)	mown.		grassland		

Table 3.1: Summary of Baseline Area Based Habitats within the Site



Hobitat 06: Vegetation and stated surface with her secondary codes sing ejected.Urban - Vacant of deficit land and of deficit land and of deficit land and perennial11.3 Cultivated/disturbed perennialModerate bulk0.110Hobitat 07: or and tibu up and ubran areas with the secondary codes 516 active management and strutter and secondary codes sinubUrban - Introduced1.4 Introduced shrub perennialModerate bulk0.016Hobitat 08: Long jump landing areaUld beveloped land; secondary codes sinubUrban - Developed landicase surfaceJAB are ground bulk of the secondary code sinubN/A - Other of secondary code sinub0.0079Hobitat 09: Long jump landing areaUld seveloped land; secondary code sinubeUrban - beveloped landicase secondary code sinubeUrban - beveloped landicase secondary code sinubeUrban - beveloped landicase sinubeN/A - Other beveloped landicase secondary code sinubeOrban - beveloped landicase sinubeN/A - Other beveloped landicase sinube0.0509Habitat 10: Hardstanding landicase landicase sinubeUrban - beveloped landicase sinubeUrban - beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinubeN/A - Other beveloped landicase sinube <td< th=""><th>Habitat Reference</th><th>UK Habitat Classification Type</th><th>BNG Habitat Equivalent</th><th>Phase 1 Habitat Equivalent</th><th>Condition Assessment Result</th><th>Area (ha)</th></td<>	Habitat Reference	UK Habitat Classification Type	BNG Habitat Equivalent	Phase 1 Habitat Equivalent	Condition Assessment Result	Area (ha)
Habitat 07: Ornamental shrubsu1 built up and urban areas with the secondary codes 516 active management and 847 introduced shrub.Urban - Introduced shrub.J1.4 Introduced shrubCondition Assessment N/A0.0016Habitat 08: Long jump run upu1b developed land; sealed surface with the secondary code spitches.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.0079Habitat 09: Long jump landing areau1c artificial 	Habitat 06: Vegetation colonising hardstanding 1	u1b developed land; sealed surface with the secondary codes 81 ruderal or ephemeral, 82 vacant or derelict land and 518 neglected.	Urban - Vacant or derelict land	J1.3 Cultivated/disturbed land – ephemeral/short perennial	Moderate	0.0110
Habitat 08: Long jump run upu1b developed land; sealed surface with the secondary code 821 artificial sports pitches.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other N/A - Other0.0079Habitat 09: Long jump landing area landing area landing areau1c artificial unvegetated, unsealed surface with the secondary code surfaceUrban - Artificial unvegetated, unvegetated, unsealed surface with surfaceJ4 Bare ground Artificial unvegetated, unvegetated, unvegetated, unvegetated, unvegetated, unsealed surface with surfaceUrban - Developed land; sealed surfaceJ4 Bare ground Pare groundN/A - Other N/A - Other0.050 0.0050Habitat 10: Habitat 11: Buildingsu1b5 buildings.Urban - Developed land; sealed surfaceJ5 - Other habitat - 	Habitat 07: Ornamental shrubs	u1 built up and urban areas with the secondary codes 516 active management and 847 introduced shrub.	Urban - Introduced shrub	J1.4 Introduced shrub	Condition Assessment N/A	0.0016
Habitat 09: Long jump landing areaufa artificial unvegetated, unsealed surface with the secondary code 821 artificial sports pitches.Urban - unsealed surfaceJ4 Bare groundN/A - Other0.0050Habitat 10: Hadstandingufb6 other developed land.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.2538Habitat 11: Buildingsufb5 buildings.Urban - Developed land; sealed surfaceJ5 - Other habitat - individual buildingsN/A - Other0.0512Habitat 12: Other Neutral Grassland 2g3c other neutral secondary code 200 tree and 518 neglected.Grassland - poveloped land; sealed surfaceB6 Poor semi-improved grasslandPoor N/A - Other0.0170Habitat 13: Hardstandingufb6 otherUrban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.0170Habitat 13: 	Habitat 08: Long jump run up	u1b developed land; sealed surface with the secondary code 821 artificial sports pitches.	Urban - Developed land; sealed surface	J4 Bare ground	N/A - Other	0.0079
Habitat 10: HardstandingU1b6 other developed land.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.2538Habitat 11: BuildingsU1b5 buildings.Urban - Developed land; sealed surfaceJ5 - Other habitat - individual buildingsN/A - Other0.0612Habitat 12: Other Neutral Grassland 2g3c other neutral grassland with the secondary codes 200 tree and 518 neglected.Grassland - Other neutral grasslandB6 Poor semi-improved grasslandPoor Poor0.0170Habitat 13: HardstandingU1b6 other developed land.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.1187	Habitat 09: Long jump landing area	u1c artificial unvegetated, unsealed surface with the secondary code 821 artificial sports pitches.	Urban - Artificial unvegetated, unsealed surface	J4 Bare ground	N/A - Other	0.0050
Habitat 11: Buildingsu1b5 buildings.Urban - Developed land; sealed surfaceJ5 - Other habitat - individual buildingsN/A - Other0.0612Habitat 12: Other Neutral Grassland 2g3c other neutral grassland with the secondary codes 200 tree and 518 neglected.Grassland - Other neutral grasslandB6 Poor semi-improved grasslandPoor0.0170Habitat 13: Hardstandingu1b6 otherUrban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.1187	Habitat 10: Hardstanding	u1b6 other developed land.	Urban - Developed land; sealed surface	J4 Bare ground	N/A - Other	0.2538
Habitat 12: Other Neutral Grassland 2g3c other neutral grassland with the secondary codes 200 tree and 518 neglected.Grassland - Other neutral grasslandB6 Poor semi-improved grasslandPoor0.0170Habitat 13: Hardstandingu1b6 other developed land.Urban - Developed land; sealed surfaceJ4 Bare groundN/A - Other0.1187	Habitat 11: Buildings	u1b5 buildings.	Urban - Developed land; sealed surface	J5 - Other habitat - individual buildings	N/A - Other	0.0612
Habitat 13:u1b6 otherUrban -J4 Bare groundN/A - Other0.1187Hardstandingdeveloped land.Developed land; sealed surfacesurfaceN/A - Other0.1187	Habitat 12: Other Neutral Grassland 2	g3c other neutral grassland with the secondary codes 200 tree and 518 neglected.	Grassland - Other neutral grassland	B6 Poor semi-improved grassland	Poor	0.0170
	Habitat 13: Hardstanding	u1b6 other developed land.	Urban - Developed land; sealed surface	J4 Bare ground	N/A - Other	0.1187



Habitat Reference	UK Habitat Classification Type	BNG Habitat Equivalent	Size Category and Condition Assessment Result	Area (ha) ³
Habitat 14.1 T19 (1 tree)	200 tree over g3c	Individual trees – urban tree	Medium – Good	0.0163
Habitat 14.2 T21, T_A, T_B, T_C, T_G (5 trees)	203 mature tree over g4.	Individual trees – urban tree	Medium – Moderate	0.0814
Habitat 14.3 T20, T22, T23, G11.01, G11.02 and G11.03, T_D, T_E, T_F and T_H (10 trees).	200 tree over g3c	Individual trees – urban tree	Small - Moderate	0.0407
	1		Total:	0.1384

Table 3.2: Summary of Individual Trees within the Site

Habitat Reference	UK Habitat Classification Type	BNG Habitat Equivalent	Phase 1 Habitat Equivalent	Condition Assessment Result	Length (km)
<i>Habitat 16</i> Hedgerow 1	h2a5 species-rich native hedgerow with the secondary codes 516 active management and 116 flailed hedgerow.	Hedgerow - Species-rich native hedgerow	J2.1.1 Intact hedge, native species-rich	Good	0.12
		·		Total	0.12

3.2.3 The baseline BNG score for the site is provided at **Section 5.0**.

³ Due to the way individual trees are calculated by the metric they do not contribute to the total habitat area calculation, but are additional to it.



4.0 POST DEVELOPMENT HABITATS

4.1 Consideration of Target Condition Assessments

- 4.1.1 Reasonable assumptions have been made for each of the enhanced, retained and proposed habitats as specified on the proposals plan; Target Condition Assessments are presented at **Section 7.2**. A long-term habitat management plan with an appropriate monitoring regime is required to secure the condition of these habitats in the long-term.
- 4.1.2 Note that, in the absence of a formal landscape strategy for the site, assumptions have been made demonstrating how a 10% net gain can be attained at the site; this report must be updated following the completion of a formal landscape strategy for the site.

4.2 Consideration of Proposed Habitats

- 4.2.1 The proposals plan demonstrates that the site will be developed to new buildings and hardstanding with areas of amenity grassland.
- 4.2.2 Hedgerow 1 will be retained. It has been calculated that a 0.03 kilometres length of species-rich hedgerow managed to a moderate condition will be required to attain a net gain at the site. At least 40 individual trees will be required to attain an overall net gain and meet trading rules, due to the trees which are to be lost to facilitate development.

Habitat Type	BNG Equivalent Habitat	Target Condition	Area (ha)
Retained Habitat			
Habitat 4: Amenity grassland 1	Grassland – Modified grassland	Poor	0.0321
Habitat 5: Amenity grassland 2	Grassland – Modified grassland	Poor	0.0330
Habitat 13: Hardstanding	Urban – Developed land, sealed surface	N/A - Other	0.1186
Enhanced Habitats			
Habitat 12: Other Neutral	Grassland - Other neutral grassland	Poor to	0.0170
Grassland 2		Moderate	
Created Habitats			
Habitat A	Heathland and shrub – Mixed scrub	Poor	0.0038
Mixed scrub			
Habitat B	Grassland – Other neutral grassland	Moderate	0.2208
Wildflower grassland			
Habitat C	Grassland – Modified grassland	Poor	0.3202
Proposed amenity grassland			
Habitat D	Urban – Developed land, sealed surface	N/A - Other	0.4476
Hardstanding			
Habitat E	Urban – Developed land, sealed surface	N/A - Other	0.2067
Buildings			
		Total	1.3998

Table 4.1: Summary of Area-based Habitats to be Enhanced, Retained and Created at the Site



Habitat Reference	BNG Habitat Equivalent	Size Category and Target Condition	Area (ha)⁴	
Retained Trees				
Habitat 14.2 T_A, T_B, T_C and T_G (4 trees)	Urban – urban trees	Medium - Moderate	0.0651	
Habitat 14.3 T23, T_D, T_E, T_F and T_H (5 trees)	Urban – urban trees	Small - Moderate	0.0204	
Created Trees	Urban – urban trees			
Habitat F Urban trees (45, small size)	Urban – urban trees	Small - Moderate	0.1832	
		Total	0.2484	

Table 4.2: Summary of Individual Trees to be Retained and Created at the Site

Table 4.3: Summary of Hedgerow Habitats to be Retained and Created at the Site

Habitat Type	BNG Equivalent Habitat	Target Condition	Length (km)
Retained Habitats			
Habitat 16:	Hedgerow - Species-rich native hedgerow	Good	0.12
Hedgerow 1			
Proposed Habitats			
Habitat G	Hedgerow - Species-rich native hedgerow	Moderate	0.03
New hedgerow			
		Total	0.15

⁴ Small urban trees have a diameter at breast height (DBH) of up to 30cm, medium urban trees have a DBH of 30 to 60cm, large urban trees have a DBH of 60 to 90cm and very large trees have DBH of more than 90cm. Due to the way individual trees are calculated by the metric they do not contribute to the total habitat area calculation, but are additional to it.



5.0 HEADLINE RESULTS, EVALUATION AND CONCLUSION

5.1 The headline results of the BNG Calculator are presented at **Table 5.1** below.

On-site Baseline	Habitat units	3.24	
	Hedgerow units	1.44	
	Watercourse units	0.00	
On-site Post Intervention	Habitat units	3.61	
-	Hedgerow units	1.64	
-	Watercourse units	0.00	
On—site net change	Habitat units	0.37	11.30%
(units % percentage)	Hedgerow units	0.20	13.95%
	Watercourse units	0.00	0.00%
Total Net Unit Change	Habitat units	0.37	
	Hedgerow units	0.20	
	Watercourse units	0.00	
Total Net % Change	Habitat units	11.30%	
	Hedgerow units	13.95%	
	Watercourse units	0.00%	

Table 5.1: Results of Statutory Biodiversity Metric Calculation Tool

Trading	Rules	Satisfied?	Yes

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	Comment
Habitat units	10%	3.35	3.68	0.00	No additional area habitat units required to meet target
Hedgerow units	10%	1.44	1.58	0.00	No additional area habitat units required to meet target
Watercourse units	10%	0.00	0.00	0.00	No additional area habitat units required to meet target

- 5.2 The above demonstrates that net gain can be achieved at the site via the enhancement of grassland to the west of the playing field, and creation of wildflower grassland, mixed scrub, tree planting and hedgerow planting within the site. This has been calculated prior to the provision of a landscape design scheme for the site.
- 5.3 If a landscape design scheme and revised BNG assessment demonstrates that net gain cannot be attained at the site then the following options are available (a combination of the approaches outlined below may be appropriate):
 - a. A redesign of the site to minimise impacts and establish enhancement of retained areas where possible;
 - b. Enhancement of off-site habitats to compensate for the loss of units associated with the proposed development; and
 - c. Agreeing a biodiversity payment for the loss of habitat units associated with the site with a habitat bank or other similar provider.
- 5.4 It is recommended that any such approach is only finalised following the completion of the site design and a landscape planting plan (and a revised BNG Assessment) to ensure that the final calculation represents an accurate assessment of the habitat unit change at the site.



- 5.5 Note that any habitats managed within the site and any off-site compensatory habitats to be enhanced by the client will be subject to a long-term habitat management plan.
- 5.6 It is essential that, in addition to the result of the BNG Metric, the assessment of biodiversity net gain takes into account the measures to be accommodated and implemented at the site to secure gains and betterment for biodiversity that the BNG Metric cannot take account of.
- 5.7 At this site it is advised that the following measures are also considered as part of the assessment of biodiversity net gain:
 - a. Incorporation of opportunities for roosting bats at the new properties as, although the habitats are suitable for use by foraging bat species such as *Pipistrellus* species, there are no significant opportunities for roosting bats (particularly maternity roosts) at the site currently (this is considered to provide additionality);
 - b. Incorporation of opportunities for use by nesting birds at the developed site including in both the public open space by landscape planting and at the new buildings.
 - c. Eradication / control of invasive plant species from the site including the Montbretia; and
 - d. Preparation and implementation of a Landscape and Ecological Management Plan (or similar) to secure long-term management of the retained and created habitats in accordance with conservation targets and objectives.



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7.0 APPENDIX: CONDITION ASSESSMENTS AND FIGURES

7.1 Condition Assessments of Baseline Habitats

7.1.1 No Condition Assessment is required for Habitat 01 (Bramble scrub), Habitat 07 (Introduced shrubs), and Habitats 08, 09, 10 and 11 (buildings and hard standing).

Table 7.1: Condition Assessments for Habitat 02: Tall Forbs

Habitat Reference	Α	В	С	Total No. of	Condition						
				Criterion Passed	Assessment Result						
Habitat 02: Tall forbs	Х	Х	\checkmark	1	Poor						
If only 3 core Criteria Assessed											
Good: Passes all 3 core of	riteria; AN	ID Meets t	he require	ements for Good condit	ion within criterion C.						
Moderate: Passes 2 core criteria; OR Passes 3 d	core criteri	a but doe	s not meet	the requirements for (Good condition within						
					criterion C.						
				Poor: Passes 1 or	fewer of core criteria						

Condition Assessment Criteria

A. Vegetation structure is varied, providing opportunities for vertebrates and invertebrates to live, eat and breed. A single structural habitat component or vegetation type does not account for more than 80% of the total habitat area.

B. The habitat parcel contains different plant species that are beneficial for wildlife, for example flowering species providing nectar sources for a range of invertebrates at different times of year.

C. Invasive non-native plant species listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended) and others which are to the detriment of native wildlife (using professional judgement)² cover less than 5% of the total vegetated area. This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement *Note - to achieve Good condition, this criterion must be satisfied by a complete absence of invasive non-native species (rather than <5% cover).*

Sources of information about detrimental non-native species can be found on the GB Non-native Species Secretariat (GBNNSS) website: Home » NNSS (nonnativespecies.org) and Natural England Access to Evidence page should also be checked for up-to-date information: Horizon-scanning for invasive non-native plants in Great Britain - NECR053 (naturalengland.org.uk). *For green roof habitat types only* – Buddleia (*Buddleja davidii*) should be assessed alongside Schedule 9 species. This species impairs the health of the local ecosystem and reduces the biodiversity potential of the roof. It is also a sign that a roof has not been planted and seeded correctly in subsequent years.



Table 7.2: Condition Assessments for Habitat 03 and Habitat 13: Other Neutral Grassland 1 and Other Neutral Grassland 2

Habitat Reference	Α	В	С	D	E	F	Total No. of Criterion Passed	Condition Assessment Result				
Habitat 02: Other neutral grassland 1	v	<u> </u>	v	<u> </u>				Poor				
Habitat US. Other neutral grassianu 1	^	•	^	•	^	^	Z	PUUI				
Habitat 13: Other neutral grassland 2	Х	\checkmark	Х	Х	Х	Х	1	Poor				
		Acid G		Non-acid Grassland Types								
		Good: p	asses 5 criteria		Good: passes 5 or 6 criteria,							
					including essential criteria A and additional criterion F							
	r	Moderate: passe	s 3 or 4 criteria		Moderate: passes 3 to 5 criteria, including essential criterion A							
		Poor: passes 2 o	or fewer criteria	Poor:	Poor: passes 2 or fewer criteria; or passes 3 or 4 criteria excluding criterion A and F							

Condition Assessment Criteria

A. The grassland is a good representation of the habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type (and relative to Footnote 3 suboptimal species which may be listed in the UKHab description). Professional judgement should be used alongside the UKHab description.

Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.

B. Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.

C. Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens. For example, this could include small, scattered areas of bare ground allowing for plant colonisation, or localised patches not exceeding 5% cover.

D. Cover of Bracken less than 20% and cover of scrub (including Bramble) less than 5%.

E. Combined cover of species indicative of sub-optimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area (species are listed below).

If any invasive non-native plant species as listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended) are present, this criterion is automatically failed. This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, by applying professional judgement.

Species indicative of sub-optimal condition for this habitat type include: Creeping Thistle, Spear Thistle, Curled Dock, Broad-leaved Dock, Common Nettle, Creeping Buttercup, Greater Plantain, White Clover, Cow Parsley. There may be additional relevant species local to the region and / or site.

Additional Group – non-acid grassland types only

F. There are 10 or more vascular plant species per m² present, including forbs that are characteristic of the habitat type (species referenced at Criterion 'E' cannot contribute towards this count).

Note - this criterion is essential for achieving Good condition for non-acid grassland types only.



Table 7.3: Condition Assessments for Habitats 04 and 05: Amenity Grassland 1 and 2

Habitat Reference	Α	В	C	D	E	F	G	Total No. of Criterion	Condition Assessment Result ¹			
								Passed				
Habitat 04: Amenity grassland 1	Х	Х	✓	Х	~	✓	✓	4 (fails A)	Poor			
Habitat 05: Amenity grassland 2	Х	Х	✓	✓	~	✓	✓	5 (fails A) Poor				
						G	ood: Passe	s 6 or 7 criteria incl	uding essential criterion A			
						Moder	rate: Passe	s 4 or 5 criteria incl	uding essential criterion A			
				P	oor: Passe	s 3 or fewe	r criteria O	R passes 4 to 6 crit	eria, but failing criterion A			

Condition Assessment Criteria

A. There are 6 to 8 vascular plant species per m2 present, including at least 2 forbs (this may include those listed in below). Note - this criterion is essential for achieving Moderate or Good condition.

Where the vascular plant species present are characteristic of medium, high or very high distinctiveness grassland, or there are 9 or more of these characteristic species per m2 (excluding those listed below), please review the full UKHab description to assess whether the grassland should instead be classified as a higher distinctiveness grassland. Where a grassland is classed as medium, high, or very high distinctiveness, please use the relevant condition sheet.

Plant Species: Creeping Thistle (*Cirsium arvense*), Spear Thistle (*Cirsium vulgare*), Curled Dock (*Rumex crispus*), Broad-leaved Dock (*Rumex obtusifolius*), Common Nettle (*Urtica dioica*), Creeping Buttercup (*Ranunculus repens*), Greater Plantain (*Plantago major*), White Clover (*Trifolium repens*) and Cow Parsley (*Anthriscus sylvestris*).

B. Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.

C. Any scrub present accounts for less than 20% of total grassland area (some scattered scrub such as Bramble may be present).

Note - patches of shrubs with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.

D. Physical damage evident in less than 5% of total grassland area. Examples of physical damage include excessive poaching, damage from machinery use or storage, erosion caused by high levels of access, or any other damaging management activities.

E. Cover of bare ground between 1% and 10%, including localised areas, for example, rabbit warrens.

For example, this could include small, scattered areas of bare ground allowing establishment of new species, or localised patches where not exceeding 10% cover

F. Cover of Bracken less than 20%.

G. There is an absence of invasive non-native species as listed on Schedule 9 of Wildlife and Countryside Act 1981 (as amended).

This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement



Table 7.4: Condition Assessments for Habitat 06 and Habitat 14: Vegetation Colonising Hardstanding 1 and Vegetation Colonising Hardstanding 2

Habitat Reference	Α	В	С	Total No. of	Condition					
				Criterion Passed	Assessment Result					
Habitat 06: Vegetation colonising hard standing 1	\checkmark	\checkmark	Х	2	Moderate					
Habitat 14: Vegetation colonising hard standing 2	Х	Х	\checkmark	1	Poor					
				If only 3 o	core Criteria Assessed					
Good: Passes all 3 core c	riteria; Al	D Meets t	he require	ements for Good condit	ion within criterion C.					
Moderate: Passes 2 core criteria; OR Passes 3 c	ore criter	ia but doe	s not meet	t the requirements for (Good condition within					
					criterion C.					
Poor: Passes 1 or fewer of core criteria										

Condition Assessment Criteria

A. Vegetation structure is varied, providing opportunities for vertebrates and invertebrates to live, eat and breed. A single structural habitat component or vegetation type does not account for more than 80% of the total habitat area.

B. The habitat parcel contains different plant species that are beneficial for wildlife, for example flowering species providing nectar sources for a range of invertebrates at different times of year.

C. Invasive non-native plant species listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended) and others which are to the detriment of native wildlife (using professional judgement)² cover less than 5% of the total vegetated area. This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement *Note - to achieve Good condition, this criterion must be satisfied by a complete absence of invasive non-native species (rather than <5% cover).*

Sources of information about detrimental non-native species can be found on the GB Non-native Species Secretariat (GBNNSS) website: Home » NNSS (nonnativespecies.org) and Natural England Access to Evidence page should also be checked for up-to-date information: Horizon-scanning for invasive non-native plants in Great Britain - NECR053 (naturalengland.org.uk). *For green roof habitat types only* – Buddleia (*Buddleja davidii*) should be assessed alongside Schedule 9 species. This species impairs the health of the local ecosystem and reduces the biodiversity potential of the roof. It is also a sign that a roof has not been planted and seeded correctly in subsequent years.



Table 7.5: Condition Assessments for Habitat 12: Blackthorn Scrub

Habitat Reference	Α	В	С	D	E	Total No. of Criterion	Condition Assessment
						Passed	Result
Habitat 12: Blackthorn scrub	Х	Х	✓	Х	Х	1	Poor
							Good: passes 5 criteria
						Modera	ate: passes 3 or 4 criteria
						Poor:	passes 2 or fewer criteria

Condition Assessment Criteria

A. The scrub is a good representation of the habitat type – the appearance and composition of the vegetation closely matches its UKHab description(where in its natural range). Professional judgement should be used alongside the UKHab description.

At least 80% of scrub is native, and there are at least three native woody species, with no single species comprising more than 75% of the cover, except Hazel (*Corylus avellana*), Common Juniper (*Juniperus communis*), Sea Buckthorn (*Hippophae rhamnoides*) or Box (*Buxus sempervirens*), which can be up to 100% cover.

Native woody species as defined and listed in the Hedgerow Survey Handbook: DEFRA (2007) *Hedgerow Survey Handbook: A standard procedure for local surveys in the UK. 2nd ed.* [online]. Defra, London. PB1195. Available from: Hedgerow Survey Handbook (publishing.service.gov.uk).

B. Seedlings, saplings, young shrubs and mature (or ancient or veteran) shrubs are all present.

See gov.uk standing advice on ancient and veteran species. Available from *Keepers of time: ancient and native woodland and trees policy in England* (publishing.service.gov.uk) and *Ancient woodland, ancient trees and veteran trees: advice for making planning decisions* (www.gov.uk).

C. There is an absence of invasive non-native plant species⁴ (as listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended)) and species indicative of sub-optimal condition⁶ make up less than 5% of ground cover.

This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, the habitat is split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement.

D. The scrub has a well-developed edge with scattered scrub and tall grassland and or forbs present between the scrub and adjacent habitat.

E. There are clearings, glades or rides present within the scrub, providing sheltered edges.



Tree	Common Name	UKHab Description	Ancient or	DBH	BNG Size	Α	В	С	D	Ε	F	Condition Assessment Result
Reference			Veteran?	(cm)	Category							
T19	Sycamore	200 tree over g3c.	No	42	Medium	Х	~	~	\checkmark	✓	~	Good - 5 conditions met
T20	Rowan	200 tree over g3c.	No	21	Small	Х	\checkmark	Х	\checkmark	\checkmark	\checkmark	Moderate - 4 conditions met
T21	Wild Cherry	203 mature tree over g4.	No	47	Medium	Х	\checkmark	✓	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T22	Crab Apple	203 mature tree over g4	No	29	Small	\checkmark	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T23	Willow sp	200 tree over g3c.	No	29	Small	Х	\checkmark	\checkmark	\checkmark	Х	\checkmark	Moderate - 4 conditions met
G11.01	Beech	200 tree over g3c.	No	19	Small	✓	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
G11.02	Beech	200 tree over g3c.	No	19	Small	✓	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
G11.03	Beech	200 tree over g3.	No	19	Small	\checkmark	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T_A	Sycamore	200 tree over g3c	No	38	Medium	Х	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 3 conditions met
T_B	Weeping willow	200 tree over g3c	No	38	Medium	Х	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 3 conditions met
T_C	Sycamore	200 tree over g3c	No	38	Medium	Х	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 3 conditions met
T_D	Beech	200 tree over g3c	No	25	Small	\checkmark	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T_E	Not sure	200 tree over g3c	No	27	Small	Х	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 3 conditions met
T_F	Beech	200 tree over g3c	No	25	Small	\checkmark	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T_G	Lime	200 tree over g3c	No	32	Medium	\checkmark	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 4 conditions met
T_H	Weeping willow	200 tree over g3c	No	25	Small	Х	\checkmark	Х	\checkmark	Х	\checkmark	Moderate - 3 conditions met

Table 7.6: Condition Assessments for Habitat 12: Individual Trees (note trees shaded in green will be retained)

Condition Assessment Criteria

A. The tree is a native species (or more than 70% within the block are native species)

B. Tree canopy is predominantly continuous with gaps in canopy cover making up less than 10% of total area and no individual gap being more than 5 metres wide. Individual trees automatically pass this criterion.

C. The tree is mature (or more than 50% within the block are mature). See gov.uk standing advice on ancient and veteran trees, available from:

Keepers of time: ancient and native woodland and trees policy in England (publishing.service.gov.uk) and Ancient woodland, ancient trees and veteran trees: advice for making planning decisions (www.gov.uk).

Enhancement of this habitat type is only possible by improving the habitat so that it meets Criteria B, D and F. It is not possible or appropriate to enhance individual trees through meeting just one of those Criteria, nor by meeting Criteria A, C or E.

D. There is little or no evidence of an adverse impact on tree health by human activities (such as vandalism, herbicide or detrimental agricultural activity). And there is no current regular pruning regime, so the trees retain >75% of expected canopy for their age range and height.

E. Natural ecological niches for vertebrates and invertebrates are present, such as presence of deadwood, cavities, ivy or loose bark.

F. More than 20% of the tree canopy area is oversailing vegetation beneath



Table 7.7: Condition Assessments for Habitat 16: Hedgerow 1

Habitat Reference	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	Total No. of Group Failures	Total N Criteria	lo. of	Condition Assessment	
Habitat 16: Hedgerow	~	~	~	✓	~	x	✓	~	N/A	N/A	0	1		Good	
1					14/11										
Cood: No more them	2 failuras	in total. A		Hedgerov		It Irees		Hedgerows with Ir							
Good: No more than	group		Good	a: NO more	e than z	Tallures in total; A	IND NO MOI	re triari fu	nctional group						
Moderate: No more that	an 4 failur	es in total		es not fail h	oth attrik	group.	M	oderate	No more t	than 5 fa	ailures in total· AN	ID does not	t fail ho	th attributes in	
moderate. No more the			more	e than one	functiona	al group		oucrate.				more thar	n one fi	unctional group	
(e.g	g. fails attr	ibutes A1	, A2, B1 8	. C2 = Mod	erate con	dition).			(e.g.	fails att	ributes A1, A2, B1	, C2 & E1 =	Moder	rate condition).	
Poor: Fails a total of	more tha	n 4 attrib	utes; OR f	ails both a	ttributes i	in more	Poo	r: Fails a	total of m	ore thar	5 attributes; OR	fails both a	ttribute	es in more than	
				than one	functiona	al group							one fu	unctional group	
	(e.g. fai	ls attribut	es A1, A2,	B1 & B2 =	Poor con	dition).				(e.g	g. fails attributes A	1, A2, B1 8	& B2 = P	oor condition).	
Condition Assessment Crit	eria														
A1. Height:	1. Height:														
>1.5m average along lengt	h						>1.5n	n average	along lengt	:h.					
The average height of wo	ody growth	n estimateo	d from bas	e of stem t	o the top	of shoots	, The a	verage w	idth of woo	dy growt	h estimated at the v	videst point	of the c	anopy, excluding	
excluding any bank beneat	h the hedg	erow, any	gaps or iso	lated trees.			gaps	and isolat	ed trees.						
criterion for up to a maxim	ledgerows um of 4 yea	are indica ars (if undei	tive of go rtaken acco	od manage ording to go	ement and od practice). A newl	/ minl	m in height.							
planted hedgerow does no	t pass this	criterion (u	inless it is a	> 1.5 m heig	ht).		Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of 4 years (if undertaken according to good practice)								
B1. Gap - hedge base.							B2. G	ap - hedg	e canopy co	ontinuity	1.				
Gap between ground and	base of ca	nopy is les	s than 0.5	m, for more	e than 90%	6 of lengtl	n Gaps	make up	less than 10	0% of tot	al length and no can	opy gaps are	e greate	r than 5m. Gates	
(unless line of trees).							and a	ccess poi	nts are not	subject t	o the greater than 5	m criterion.			
This is the vertical gapping	ess' of the	woody cor	nponent o Cortain	the hedge	row, and it	ts distance	e This i	is the ho	rizontal 'ga ks in tho wo	ppiness'	of the woody com	ponent of t	the hedg	gerow. Gaps are	
acceptable (e.g. a Hazel do	minated he	edgerow or	where the	hedgerow i	s affected	by shadin		s points	and gates c	ontribut	e to the overall 'ga	opiness', bu	it are no	ot subject to the	
from other vegetation such	n as woodla	and, see pa	ge 65 of H	edgerow Su	rvey Handl	book.	great	er than 5	m criterion	(as this i	s the typical size of a	a gate).			
C1. Undisturbed ground a	nd perenni	al vegetati	on.				C2. N	utrient-e	nriched per	ennial ve	egetation.				
More than 1m width grou	nd with pe	rennial hei	baceous v	egetation f	or more th	ian 90% o	f Plant	species i	ndicative o	f nutrien	t enrichment of so	ls do not do	ominate	more than 20%	
he hedgerow length, as measured from outer edge of the hedgerow, and is present on at							t cover	of the gr	ound area c	of undistu	urbed ground.				
This is the level of disturb	3ST 1 SIGE OF THE HEAGEROW.								species use Their prese	a are nei nce eith	tties (<i>Urtica</i> spp.), (er singly or togethe	leavers (Ga	nium ap	arine) and docks	
Undisturbed ground should	d be presen	it for at leas	st 90% of th	hedgerov	v length, gr	eater thai	thres	hold.	men prese	nee, eith	ici singiy or togethe	., 3110010111			
1m in width and must be	present a	along at lea	ast one sid	le of the h	edge. Thi	s criterio	1								



Condition Assessment Criteria	
recognises the value of the hedge base as a boundary habitat with the capacity to support	
a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can	
limit available habitat niches.	
D1. Invasive and neophyte species.	D2. Current damage.
More than 90% of the hedgerow and undisturbed ground is free of invasive non-native plant	More than 90% of the hedgerow or undisturbed ground is free of damaged caused by human
species (including those listed on Schedule 9 of WCA) and recently introduced species.	activities.
Recently introduced species refer to plants that have naturalised in the UK since AD 1500	This criterion addresses damaging activities that may have led to or lead to deterioration in
(neophytes). Archaeophytes count as natives. For information on archaeophytes and	other attributes.
neophytes see the JNCC website, as well as the BSBI website where the 'Online Atlas of the	This could include evidence of pollution, piles of manure or rubble, or inappropriate
British and Irish Flora' contains an up-to-date list of the status of species. For information	management practices (e.g. excessive hedge cutting).
on invasive non-native species see the GB Non-Native Secretariat website.	
Additional group – ONLY if trees are present	
E1. Tree Class	E1. Tree health
There is more than one age-class (or morphology) of tree present (for example: young,	At least 95% of hedgerow trees are in a healthy condition (excluding veteran features
mature, veteran and or ancient ⁸), and there is on average at least one mature, ancient or	valuable for wildlife). There is little or no evidence of an adverse impact on tree health by
veteran tree present per 20 to 50m of hedgerow. This criterion addresses if there are a range	damage from livestock or wild animals, pests or diseases, or human activity.
of age-classes or morphologies which allow for replacement of trees and provide	This criterion identifies if the trees are subject to damage which compromises the survival
opportunities for different species.	and health of the individual specimens.



7.2 Target Condition Assessments of Enhanced and Created Habitats

- 7.2.1 No Condition Assessment is required for Habitats D or E (the hardstanding and new buildings).
- 7.2.2 Habitat 12: Blackthorn scrub, Habitat 14: Vegetation colonising hardstanding and all retained trees will be maintained at their current conditions.
- 7.2.3 It is recommended that Hedgerow 1 is retained at its current condition (i.e. Good).

Table 7.8: Target Condition Assessment for Habitat 13: Enhanced Other Neutral Grassland 2

Habitat Reference	Α	В	С	D	E	F	Total No. of	Condition			
							Criterion Passed	Assessment Result			
Habitat 13: Other neutral grassland 2	X to ✓	\checkmark	Х	X to 🗸	1 to 4	Poor to Moderate					
		Acid G	rassland Types	Non-acid Grassland Types							
		Good: p	asses 5 criteria		Good: passes 5 or 6 criteria,						
						includi	ng essential criteria A ar	nd additional criterion F			
	N	/loderate: passe	Moderate: passes 3 to 5 criteria, including essential criterion A								
	I	Poor: passes 2 o	Poor: passes 2 or fewer criteria; or passes 3 or 4 criteria excluding criterion A and F								

Condition Assessment Criteria

A. The grassland is a good representation of the habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type (and relative to Footnote 3 suboptimal species which may be listed in the UKHab description). Professional judgement should be used alongside the UKHab description.

Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.

B. Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.

C. Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens. For example, this could include small, scattered areas of bare ground allowing for plant colonisation, or localised patches not exceeding 5% cover.

D. Cover of Bracken less than 20% and cover of scrub (including Bramble) less than 5%.

E. Combined cover of species indicative of sub-optimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area (species are listed below).

If any invasive non-native plant species as listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended) are present, this criterion is automatically failed. This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, by applying professional judgement.

Species indicative of sub-optimal condition for this habitat type include: Creeping Thistle, Spear Thistle, Curled Dock, Broad-leaved Dock, Common Nettle, Creeping Buttercup, Greater Plantain, White Clover, Cow Parsley. There may be additional relevant species local to the region and / or site.

Additional Group – non-acid grassland types only

F. There are 10 or more vascular plant species per m² present, including forbs that are characteristic of the habitat type (species referenced at Criterion 'E' cannot contribute towards this count).

Note - this criterion is essential for achieving Good condition for non-acid grassland types only.



Table 7.9: Condition Assessments for Habitat A: Mixed Scrub

Habitat Reference	Α	В	C	D	E	Total No. of Criterion Passed	Condition Assessment Result		
Habitat A: Mixed Scrub	Х	Х	✓	Х	Х	1	Poor		
							Good: passes 5 criteria		
Moderate: passes 3 or 4 criteria									
						Poor:	passes 2 or fewer criteria		

Condition Assessment Criteria

A. The scrub is a good representation of the habitat type – the appearance and composition of the vegetation closely matches its UKHab description (where in its natural range). Professional judgement should be used alongside the UKHab description.

At least 80% of scrub is native, and there are at least three native woody species, with no single species comprising more than 75% of the cover, except Hazel (*Corylus avellana*), Common Juniper (*Juniperus communis*), Sea Buckthorn (*Hippophae rhamnoides*) or Box (*Buxus sempervirens*), which can be up to 100% cover.

Native woody species as defined and listed in the Hedgerow Survey Handbook: DEFRA (2007) *Hedgerow Survey Handbook: A standard procedure for local surveys in the UK. 2nd ed.* [online]. Defra, London. PB1195. Available from: Hedgerow Survey Handbook (publishing.service.gov.uk).

B. Seedlings, saplings, young shrubs and mature (or ancient or veteran) shrubs are all present.

See gov.uk standing advice on ancient and veteran species. Available from *Keepers of time: ancient and native woodland and trees policy in England* (publishing.service.gov.uk) and *Ancient woodland, ancient trees and veteran trees: advice for making planning decisions* (www.gov.uk).

C. There is an absence of invasive non-native plant species⁴ (as listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended)) and species indicative of sub-optimal condition⁶ make up less than 5% of ground cover.

This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, the habitat is split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement.

D. The scrub has a well-developed edge with scattered scrub and tall grassland and or forbs present between the scrub and adjacent habitat.

E. There are clearings, glades or rides present within the scrub, providing sheltered edges.



Table 7.10: Condition Assessments for Habitat B: Wildflower Grassland

Habitat Reference	Α	В	С	D	E	E F To		Condition		
							Criterion Passed	Assessment Result		
Habitat B: Wildflower grassland	\checkmark	\checkmark	Х	Х	\checkmark	\checkmark	4	Moderate		
		Acid Gr	Non-acid Grassland Types							
		Good: pa	Good: passes 5 or 6 criteria,							
				including essential criteria A and additional criterion F						
		Moderate: passes	Moderate: passes 3 to 5 criteria, including essential criterion A							
		Poor: passes 2 or	Poor: passes 2 or fewer criteria; or passes 3 or 4 criteria excluding criterion A and F							

Condition Assessment Criteria

A. The grassland is a good representation of the habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type (and relative to Footnote 3 suboptimal species which may be listed in the UKHab description). Professional judgement should be used alongside the UKHab description.

Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.

B. Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.

C. Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens. For example, this could include small, scattered areas of bare ground allowing for plant colonisation, or localised patches not exceeding 5% cover.

D. Cover of Bracken less than 20% and cover of scrub (including Bramble) less than 5%.

E. Combined cover of species indicative of sub-optimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area (species are listed below).

If any invasive non-native plant species as listed on Schedule 9 of *Wildlife and Countryside Act 1981* (as amended) are present, this criterion is automatically failed. This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, by applying professional judgement.

Species indicative of sub-optimal condition for this habitat type include: Creeping Thistle, Spear Thistle, Curled Dock, Broad-leaved Dock, Common Nettle, Creeping Buttercup, Greater Plantain, White Clover, Cow Parsley. There may be additional relevant species local to the region and / or site.

Additional Group – non-acid grassland types only

F. There are 10 or more vascular plant species per m² present, including forbs that are characteristic of the habitat type (species referenced at Criterion 'E' cannot contribute towards this count).

Note - this criterion is essential for achieving Good condition for non-acid grassland types only.



Table 7.11: Condition Assessments for Habitat C: Amenity Grassland

Habitat Reference	Α	В	С	D	E	F G Total			Condition Assessment
								Criterion	Result ¹
								Passed	
Habitat C: Amenity grassland	Х	Х	~	Х	Х	✓	✓	3	Poor
Good: Passes 6 or 7 criteria including essential criterion A									
						Mode	r ate: Passes	4 or 5 criteria incl	uding essential criterion A
				F	Poor: Passes	s 3 or fewe	r criteria Ol	R passes 4 to 6 crite	eria, but failing criterion A
Condition Assessment Criteria									
A. There are 6 to 8 vascular plant species per m2 present, including at least 2 forbs (this may include those listed in below). Note - this criterion is essential for achieving Moderate or									
Good condition.									

Where the vascular plant species present are characteristic of medium, high or very high distinctiveness grassland, or there are 9 or more of these characteristic species per m2 (excluding those listed below), please review the full UKHab description to assess whether the grassland should instead be classified as a higher distinctiveness grassland. Where a grassland is classed as medium, high, or very high distinctiveness, please use the relevant condition sheet.

Plant Species: Creeping Thistle (Cirsium arvense), Spear Thistle (Cirsium vulgare), Curled Dock (Rumex crispus), Broad-leaved Dock (Rumex obtusifolius), Common Nettle (Urtica dioica), Creeping Buttercup (Ranunculus repens), Greater Plantain (Plantago major), White Clover (Trifolium repens) and Cow Parsley (Anthriscus sylvestris).

B. Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.

C. Any scrub present accounts for less than 20% of total grassland area (some scattered scrub such as Bramble may be present).

Note - patches of shrubs with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.

D. Physical damage evident in less than 5% of total grassland area. Examples of physical damage include excessive poaching, damage from machinery use or storage, erosion caused by high levels of access, or any other damaging management activities.

E. Cover of bare ground between 1% and 10%, including localised areas, for example, rabbit warrens.

For example, this could include small, scattered areas of bare ground allowing establishment of new species, or localised patches where not exceeding 10% cover

F. Cover of Bracken less than 20%.

G. There is an absence of invasive non-native species as listed on Schedule 9 of Wildlife and Countryside Act 1981 (as amended).

This is assessed for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement



Table 7.12: Condition Assessments for Habitat F: Individual Urban Trees

Tree Reference	Α	В	С	D	E	F	Size	Total No. of	Condition
							Category	Criterion Passed	Assessment Result
Habitat F: New trees (45 trees).	\checkmark	✓	Х	✓	Х	✓	Small	4	Moderate
								Goo	d: Passes 5 or 6 criteria
Moderate: Passes 3 or 4 criteria									
								Poor: P	asses 2 or fewer criteria

Condition Assessment Criteria

A. The tree is a native species (or more than 70% within the block are native species)

B. Tree canopy is predominantly continuous with gaps in canopy cover making up less than 10% of total area and no individual gap being more than 5 metres wide. Individual trees automatically pass this criterion.

C. The tree is mature (or more than 50% within the block are mature). See gov.uk standing advice on ancient and veteran trees, available from:

Keepers of time: ancient and native woodland and trees policy in England (publishing.service.gov.uk) and Ancient woodland, ancient trees and veteran trees: advice for making planning decisions (www.gov.uk).

Enhancement of this habitat type is only possible by improving the habitat so that it meets Criteria B, D and F. It is not possible or appropriate to enhance individual trees through meeting just one of those Criteria, nor by meeting Criteria A, C or E.

D. There is little or no evidence of an adverse impact on tree health by human activities (such as vandalism, herbicide or detrimental agricultural activity). And there is no current regular pruning regime, so the trees retain >75% of expected canopy for their age range and height.

E. Natural ecological niches for vertebrates and invertebrates are present, such as presence of deadwood, cavities, ivy or loose bark.

F. More than 20% of the tree canopy area is oversailing vegetation beneath



Table 7.13: Condition Assessments for Habitat G: New Hedgerow

Habitat Reference	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	Total Grou	No. o p Failures	f Total 6 Criter Failur	No. ria	. of	Condition Assessment Result
Habitat G: New Hedgerow	Х	х	~	~	√	Х	✓	✓	N/A	N/A	0		1	23		Moderate
				Hedgerow	vs Withou	it Trees								He	dgerc	ws With Trees
Good: No more than 2	failures	in total; A	ND no mo	ore than 1	in any fur	nctional		Good	d: No more	e than 2	failures	in total;	AND no i	more	than	1 failure in any
						group.									fu	nctional group.
Moderate: No more than	n 4 failur	es in total	; AND doe	es not fail k	oth attri	outes in	Mo	oderate:	No more	than 5 fa	ailures i	n total; A	ND does	not f	ail bo	th attributes in
	6 11 11		more	than one	functiona	al group			,	6 1			more t	han c	one fu	inctional group
(e.g.	fails attr	ibutes A1	, A2, B1 &	. C2 = Mod	erate con	dition).	_	- ·I	(e.g.	fails att	ributes	A1, A2, B	1, C2 & E	:1 = N	vloder	ate condition).
Poor: Fails a total of i	nore tha	n 4 attrib	utes; OR f	alls both a	ttributes	in more	POOI	: Fails a	total of m	ore thar	i 5 attri	butes; OF	tails bot	n att	ribute	es in more than
	log fai	le attribut	مد 1 1 1 1		Poor con	al group				10	r fails a	ttributos) 1.2.1	one tu 27 – D	inctional group
	(e.g. 1a)		es ai, az,	DI & D2 =		luition).				(೮.೯	5. Talis a	ttibutes	A1, A2, U		52 - F	
Condition Assessment Crite																
A1. Height:							A2. Width:									
>1.5m average along length							>1.5m	>1.5m average along length.								
excluding any bank beneath	dy growth the hedg	erow, any	d from bas gaps or iso	e of stem t lated trees.	o the top	of shoots,	gaps a	gaps and isolated trees.								
Newly laid or coppiced he	dgerows	are indica	tive of go	od manage	ment and	pass this	Outgr	Outgrowths (e.g. Blackthorn suckers) are only included in the width estimate when they >0.5								
criterion for up to a maximu	m of 4 yea	ars (if under	rtaken acco	ording to go	od practice	e). A newly	minh	m in height.								
planted hedgerow does not	pass this	criterion (L	iniess it is a	> 1.5 m neig	nt).		Laid, of pass t	pass this criterion for up to a maximum of 4 years (if undertaken according to good practice)								
B1. Gap - hedge base.							B2. Gap - hedge canopy continuity.									
Gap between ground and b	ase of ca	nopy is les	s than 0.5	m, for more	e than 90%	6 of length	Gaps make up less than 10% of total length and no canopy gaps are greater than 5m. Gates							r than 5m. Gates		
(unless line of trees).							and access points are not subject to the greater than 5m criterion.						<u> </u>			
from the ground to the lo	ss of the	woody cor fv growth	Certain	r the heage	row, and n to this cri	terion are	Inis is the horizontal 'gappiness' of the woody component of the hedgerow. Gaps are							gerow. Gaps are		
acceptable (e.g. a Hazel dominated hedgerow or where the hedgerow is affected by shading							Access points and gates contribute to the overall 'gappiness', but are not subject to the							ot subiect to the		
from other vegetation such as woodland, see page 65 of Hedgerow Survey Handbook.								greater than 5 m criterion (as this is the typical size of a gate).								
C1. Undisturbed ground and	d perenni	al vegetati	on.				C2. Nutrient-enriched perennial vegetation.									
More than 1m width ground with perennial herbaceous vegetation for more than 90% of									Plant species indicative of nutrient enrichment of soils do not dominate more than 20%							more than 20%
the hedgerow length, as measured from outer edge of the hedgerow, and is present on at								c cover of the ground area of undisturbed ground.						aution) and dealer		
This is the level of disturba	r. nce (excli	ıding wildl	ife disturh	ance) at the	hase of t	he hedøe	I ne indicator species used are netties (<i>Urtica</i> spp.), Cleavers (<i>Galium aparine</i>) and docks (<i>Rumer</i> spp.). Their presence, either singly or together, should not exceed the 20% cover						d the 20% cover			
Undisturbed ground should	be presen	t for at leas	st 90% of th	le hedgerov	v length, gr	eater than	threst	nold.	nen prese		CI SIIIBIY		ici, siloun		CAUCE	
1m in width and must be present along at least one side of the hedge. This criterion																



Condition Assessment Criteria	
recognises the value of the hedge base as a boundary habitat with the capacity to support	
a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can	
limit available habitat niches.	
D1. Invasive and neophyte species.	D2. Current damage.
More than 90% of the hedgerow and undisturbed ground is free of invasive non-native plant	More than 90% of the hedgerow or undisturbed ground is free of damaged caused by human
species (including those listed on Schedule 9 of WCA) and recently introduced species.	activities.
Recently introduced species refer to plants that have naturalised in the UK since AD 1500	This criterion addresses damaging activities that may have led to or lead to deterioration in
(neophytes). Archaeophytes count as natives. For information on archaeophytes and	other attributes.
neophytes see the JNCC website, as well as the BSBI website where the 'Online Atlas of the	This could include evidence of pollution, piles of manure or rubble, or inappropriate
British and Irish Flora' contains an up-to-date list of the status of species. For information	management practices (e.g. excessive hedge cutting).
on invasive non-native species see the GB Non-Native Secretariat website.	
Additional group – ONLY if trees are present	
E1. Tree Class	E1. Tree health
There is more than one age-class (or morphology) of tree present (for example: young,	At least 95% of hedgerow trees are in a healthy condition (excluding veteran features
mature, veteran and or ancient ⁸), and there is on average at least one mature, ancient or	valuable for wildlife). There is little or no evidence of an adverse impact on tree health by
veteran tree present per 20 to 50m of hedgerow. This criterion addresses if there are a range	damage from livestock or wild animals, pests or diseases, or human activity.
of age-classes or morphologies which allow for replacement of trees and provide	This criterion identifies if the trees are subject to damage which compromises the survival
opportunities for different species.	and health of the individual specimens.



7.3 Figures

Figure 1: Aerial Image of the Site



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Figure 2: UKHab Plan Showing Baseline Habitats



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Figure 3: UKHab Plan of the Proposed Development and Recommended Habitat Creation to Attain a Net Gain

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