

Biodiversity Metric Assessment

Twycross Zoo, Burton Road, Atherstone

A Report To: Baker Mallett LLP

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Quality Assurance

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Declaration of Compliance

This study has been undertaken in accordance with British Standard 42020:2013 “Biodiversity, Code of Practice for Planning and Development”. The information which we have prepared is true and has been prepared and provided in accordance with the Chartered Institute of Ecology and Environmental Management’s Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions.

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1. Introduction

1.1 Project Background

In November 2022, Baker Mallett LLP commissioned Middlemarch to undertake a Biodiversity Metric Assessment associated with a proposed development at Twycross Zoo, Atherstone.

Since the completion of the Biodiversity Metric Assessment in October 2023 (Rev A), the soft landscaping scheme was amended and discussed further in February, August and November 2024. This necessitates the need to update the Biodiversity Metric Assessment to ensure it remains consistent with the current development proposal.

The assessment is informed by ecological and arboricultural works carried out at the site in November 2022 and September 2023 by Middlemarch. These are:

- Preliminary Arboricultural Assessment, October 2023 (Report RT-MME-159277-01 Rev A);
- Preliminary Ecological Appraisal, December 2022 (Report RT-MME-159277-04);
- Preliminary Bat Roost Assessment, January 2023 (Report RT-MME-159277-05);
- Report To Inform Habitats Regulations Assessment: Stage 1 Screening, October 2023 (Report RT-MME-160474-01);
- Updated Preliminary Ecological Appraisal, October 2023 (Report RT-MME-160474-02 Rev A);
- Updated Preliminary Bat Roost Assessment, October 2023 (Report RT-MME-160474-03 Rev A);
- Great Crested Newt Habitat Suitability Index Assessment, October 2023 (Report RT-MME-160474-05 Rev A);
- Great Crested Newt eDNA Survey, May 2024 (RT-MME-162321-01); and,
- Bat Surveys, October 2024 (RT-MME-162321-02).

1.2 Site Description and Context

Table 1.1 provides a brief summary of the site and its surroundings.

Attribute	Description
Location	Twycross Zoo, Burton Road, Atherstone
National Grid Reference	SK 31559 06068
Site Area (ha)	2.189
Topography	Generally flat, slightly sloping to the south.
Land Cover (on site)	The site forms the south-west corner of the larger site of Twycross Zoo and a stretch of land immediately south of the current zoo boundary. Approximately one third of the site was composed of semi-improved grassland with scattered scrub. The remaining land comprised a mosaic of dense scrub, amenity grass, conifer plantation, broad-leaved woodland, scattered and groups of planted trees, hedgerow, pond, hardstanding paths and animal enclosures, the latter mainly containing bark chippings and grasses.

Table 1.1: Summary of Site and Surroundings (continues)

Attribute	Description
Land Cover (site surrounds)	Twycross Zoo dominates the landscape to the north/north-east of the proposed development area with the wider area comprising intensively managed arable farmland dotted with small farmsteads and residential properties. The M42 lies around 3 km to the west.

Table 1.1 (continued): Summary of Site and Surroundings

1.3 Project Scope

The purpose of the Biodiversity Metric Assessment (BMA) is to identify the change in biodiversity value that may result from a change in land use (e.g. development) or management (e.g. biodiversity enhancement) at the site and to establish if a net gain for biodiversity can be achieved. The BMA utilises a biodiversity metric to provide a proxy measure of biodiversity based on habitat attributes, which can then be used to determine the relative change in biodiversity value resulting from any land use or management measures proposed.

It should be noted that the metric is only a proxy for biodiversity using habitat values, and that any proposed enhancements should be designed using appropriate ecological expertise. Existing levels of protection afforded to protected species and to habitats are not changed by use of the metric and statutory obligations will still need to be satisfied. In addition, the metric cannot account for impacts on, or enhancements to, irreplaceable habitats or protected sites, which will need to be assessed separately.

1.4 Summary of Proposals

The proposed development will comprise demolition works and removal of trees and vegetation to make way for a new, National Conservation Science Centre with associated landscaping and tree planting. This assessment is based on the updated documentation detailed in the following Table 1.2 and further email correspondence.

Document / Drawing Number	Author
Soft Landscape Strategy / Drawing: TWZ-DZU-00-00-DR-L-00400-C03	Dearadh Zú

Table 1.2: Documentation Provided by Client

2. Methods

2.1 Biodiversity Metric

The biodiversity calculations used within this assessment were undertaken by Charline Hue using 'The Biodiversity Metric 4.0' and associated User Guide¹ and Technical Supplement². Sections 2.2 and 2.3 describe the data used for the assessment and the assumptions applied.

2.2. Data Sources

Existing Baseline

The baseline habitat data and condition assessment for the site is taken from the Preliminary Ecological Appraisal (Report RT-MME-159277-04) carried out by Middlemarch in November 2022 and the updated Preliminary Ecological Appraisal (Report RT-MME-160474-02 Rev A), based on the new red line boundary, completed in September 2023. The baseline data and condition assessment for the off-site areas were collected on 8th November 2024. Phase 1 Habitat Plans showing the extent and location of each habitat recorded on and off site are included in Section 5 (Drawings C160474-02-01-Rev A and C180537-01).

The Biodiversity Metric 4.0 calculator tool utilises the UK Habitat Classification System (UKHab) as the standard data input for habitats. The Phase 1 Habitat Survey data for the site was subsequently converted for the purposes of the metric calculation using the Phase 1 habitats to UKHab translation feature, included in the Biodiversity Metric 4.0 calculator tool, or using professional opinion.

Each habitat or linear feature recorded within the site is assigned a score for 'Distinctiveness', 'Condition' and 'Strategic Significance'. Table 2.1 below describes how each habitat attribute has been determined for the existing baseline habitats in the metric assessment.

Attribute	Description
Distinctiveness	An automated score based on the type of habitat present and its value to wildlife. Highly diverse habitats such as those listed as Habitats of Principal Importance under the NERC Act (2006) or Annex 1 habitats in the Habitats Directive (1992) score highly in this category, whilst highly modified and low diversity habitats such as arable crops will have low distinctiveness scores.
Condition	A score based on the quality of the habitat parcel against published condition criteria (See Report RT-MME-160474-02 Rev A).
Strategic significance	A score based on information set out in local plans or policies. In this instance, a strategic location was defined as within the Leicestershire & Rutland Biodiversity Action Plan: Space for Wildlife 2016-2026 ³ and Interim Guidance ⁴ .

Table 2.1: Habitat Attributes for Existing Baseline Habitats

¹ Natural England (2023) *The Biodiversity Metric 4.0 – User Guide*. Natural England Joint Publication JP039. Available <http://publications.naturalengland.org.uk/publication/6049804846366720>

² Natural England (2023) *The Biodiversity Metric 4.0 – User Guide: Technical Annex 1 Condition Sheets and Methodology*. Natural England Joint Publication JP039. Available <http://publications.naturalengland.org.uk/publication/6049804846366720>

³ Leicestershire & Rutland Environmental Records Centre (2016). Leicestershire & Rutland Biodiversity Action Plan: Space for Wildlife 2016-2026 (2nd edition)

⁴ Timms, S. (2022). *Applying the Biodiversity Net-Gain Metric – Interim Guidance for Assessing Strategic Significance in Leicestershire and Rutland*. Available at: <https://www.leicestershire.gov.uk/sites/default/files/field/pdf/2022/9/20/Biodiversity-net-gain-metric-guidance-for-assessing-strategic-significance-Leicestershire-and-Rutland.pdf> v

The value of each habitat parcel (or linear feature) is presented in terms of habitat (or hedgerow/river) 'biodiversity units' (BU).

Future Baseline

The future baseline conditions of the site are based on the soft landscape strategy (TWZ-DZU-00-00-DR-L-00400-C03 Soft Landscape Strategy) and further email correspondence with the client. Table 2.2 below describes how each habitat attribute has been determined for the future baseline habitats in the metric assessment.

Attribute	Description
Distinctiveness	An automated score based on professional opinion about the projected habitat type proposed, taking into account the landscaping proposals detailed in TWZ-DZU-00-00-DR-L-00400-C03 Soft Landscape Strategy.
Condition	A target condition score of the proposed habitat parcel based on professional opinion about the outline enhancement and future management proposals.
Strategic significance	A score based on information set out in local plans or policies. In this instance, a strategic location was defined as within the Leicestershire & Rutland Biodiversity Action Plan: Space for Wildlife 2016-2026 ³ and Interim Guidance ⁴ .
Time to Target Condition	Time to target condition is automatically assigned in accordance with the Biodiversity Metric Tool 4.0. This multiplier can be adapted manually to reflect situations where a habitat is created in advance or where there is a delay in the project timescales for new habitat creation (e.g. project phasing).
Difficulty of Recreation	An automated value based on the difficulty of creating the target habitat. This value is unchanged from the values generated in Metric 4.0.

Table 2.2: Habitat Attributes for Existing Baseline Habitats

Following the calculation of the existing and future biodiversity value of the site, a calculation of the net biodiversity change is carried out to determine the 'Post-intervention habitat (or hedgerow and river) units', along with a figure for the percentage of net biodiversity impact loss (or gain).

2.3 Constraints and Assumptions

The following constraints and assumptions are applied to this report:

- For the purposes of this report, the term 'Habitat Loss' is applied to proposals that result in a change of habitat type or habitat 'distinctiveness'. This is defined in the Biodiversity Metric even where the new habitat type is created without any physical loss of the previous habitat type (e.g. creation of scrub over grassland). 'Habitat Enhancement' is applied where the habitat type and 'distinctiveness' remains the same, but the 'condition' of the habitat is improved.
- The BMA necessitates an estimation of future baseline values, based on professional opinion, to determine the change in biodiversity value that could occur as a result of the proposals at the site. The assumptions about target habitat types or condition in this report are based on professional opinion about the likely achievable outcomes at the site, based on the proposed planting plans and presumed management resources. All target habitats presume the implementation of a long-term Management Plan to achieve these ends and a recommendation to this effect is given in Section 4.
- The area of any new Urban Trees proposed is calculated using the Street Tree Helper (as described above). For the purposes of this assessment, all new trees proposed are assumed to be small (below 1/3 of their life expectancy).

3. Biodiversity Metric Calculation

3.1 Existing Habitats

The habitats identified during the Preliminary Ecological Appraisal (Reports RT-MME-159277-04 and RT-MME-160474-02 Rev A) are described in Table 3.1 and their value in biodiversity units (BU) is provided. The current extent of the habitats present is shown in Drawings C160474-02-01-Rev A and C180537-01 in Section 5. The baseline metric calculations are provided in Appendix 1.

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
On-Site Area Based Habitats				
Amenity grassland (TN13)	Modified grassland (g4)	0.13	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.53
Amenity grassland (TN14 and TN15)	Modified grassland (g4)	0.29	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.57
Building (TN23)	Developed land; sealed surface (u1b5)	0.01	Habitat is automatically classed as being of 'Very Low' distinctiveness and is considered to be of 'Low' strategic significance. A condition assessment is not applicable for this habitat type due to its limited attributes for biodiversity.	0.00
Dense scrub – Mixed (TN6, TN10, TN42, and TN43)	Mixed scrub (h3h)	0.46	Habitat is classed as being of 'Medium' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	1.83
Hardstanding (TN22)	Developed land; sealed surface (u1b)	0.29	Habitat is automatically classed as being of 'Very Low' distinctiveness and is considered to be of 'Low' strategic significance. A condition assessment is not applicable for this habitat type due to its limited attributes for biodiversity.	0.00
Plantation coniferous woodland (TN5)	Other coniferous woodland (w2c)	0.12	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.47

Table 3.1: Summary of Existing Habitats and Linear Features (Continues)

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
On-Site Area Based Habitats				
Plantation broad-leaved woodland (TN1)	Other woodland; broad-leaved (w1g7)	0.11	Habitat is automatically classed as being of 'Moderate' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.90
Plantation broad-leaved woodland (TN24)	Other woodland; broad-leaved (w1g7)	0.01	Habitat is automatically classed as being of 'Moderate' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.04
Semi-improved neutral grassland (TN19)	Other neutral grassland (g3c)	0.62	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as its extent lies outside any strategic areas identified in the local plan.	4.96
Poor semi-improved grassland (TN38)	Other neutral grassland (g3c)	0.01	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.03
Standing water (TN8)	Ponds (priority habitat) (r1, 19)	0.02	Habitat is automatically classed as being of 'High' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as it is formally identified within the local plan.	0.18
Introduced shrub (TN39)	Introduced shrub (48)	0.01	Habitat is automatically classed as being of 'Low' distinctiveness and is considered to be of 'Low' strategic significance as it is not formally identified within the local plan. A condition assessment is not applicable for this habitat type.	0.02
Bare ground (TN16)	Bare ground (73)	0.01	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.01

Table 3.1 (Continued): Summary of Existing Habitats and Linear Features (Continues)

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
On-Site Area Based Habitats				
Other habitat (TN18)	Modified grassland (g4)	0.04	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.08
Plantation broad-leaved woodland (TN17)	Other woodland; broad-leaved (w1g7)	0.04	Habitat comprises 30 early-mature to mature trees. This habitat is automatically classed as being of 'Medium' distinctiveness and the trees were deemed to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.15
Scattered trees (TN28, TN33, TN45, and TN48)	Urban tree (11)	0.04	Habitat comprises 10 semi- to early-mature trees of small size (DBH between 7 cm and 30 cm). This habitat is automatically classed as being of 'Medium' distinctiveness and the trees were deemed to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as mature trees are formally identified within the local plan.	0.38
Scattered trees (TN26, TN27, TN29, TN30, TN31, TN32, TN35, TN36, TN44, TN46, and TN47)	Urban tree (11)	0.39	Habitat comprises 15 semi- mature to mature trees including 1 of large size (DBH greater than 90 cm), 8 of medium size (DBH over 30 cm and up to 90 cm), and 6 of small size. This habitat is automatically classed as being of 'Medium' distinctiveness and the trees were deemed to be in 'Good' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as mature trees are formally identified within the local plan.	5.44
Other habitat (TN40)	Modified grassland (g4)	0.01	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.01

Table 3.1 (Continued): Summary of Existing Habitats and Linear Features (Continues)

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
On-Site Area Based Habitats				
Dense scrub – Mixed (TN37)	Mixed scrub (h3h)	0.02	Habitat is classed as being of ‘Medium’ distinctiveness and was considered to be in ‘Moderate’ condition based on the Phase 1 Habitat survey. This habitat is regarded as having ‘Low’ strategic significance as it is not formally identified within the local plan.	0.18
Total On-Site Area (ha)		2.62	Total On-Site Habitat Baseline (BU)	15.80
Total On-Site Area Excluding Urban Trees (ha)		2.19		
Off-Site Area Based Habitats				
Arable	Cereal crops (c1c)	1.50	Habitat is automatically classed as being of ‘Low’ distinctiveness and is considered to be of ‘Low’ strategic significance. A condition assessment is not applicable for this habitat type due to its limited attributes for biodiversity.	3.01
Dense scrub – Bramble	Bramble scrub (h3d)	0.15	Habitat is automatically classed as being of ‘Medium’ distinctiveness and is considered to be of ‘Low’ strategic significance. A condition assessment is not applicable for this habitat type due to its limited attributes for biodiversity.	0.59
Semi-improved neutral grassland (same as TN19)	Other neutral grassland (g3c)	0.06	Habitat is automatically classed as being of ‘Medium’ distinctiveness and was considered to be in ‘Moderate’ condition based on the Phase 1 Habitat survey. This habitat is regarded as having ‘Low’ strategic significance as its extent lies outside any strategic areas identified in the local plan.	0.48
Scattered trees	Urban tree (11)	0.08	Habitat comprises 2 semi- to early-mature trees of medium size and 1 of small size. This habitat is automatically classed as being of ‘Medium’ distinctiveness and the trees were deemed to be in ‘Moderate’ condition based on the Phase 1 Habitat survey. This habitat is regarded as having ‘High’ strategic significance as mature trees are formally identified within the local plan.	0.71

Table 3.1 (Continued): Summary of Existing Habitats and Linear Features (Continues)

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
Off-Site Area Based Habitats				
Scattered trees	Urban tree (11)	0.04	Habitat comprises 1 mature tree of medium size. This habitat is automatically classed as being of 'Medium' distinctiveness and the tree was deemed to be in 'Good' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as mature trees are formally identified within the local plan.	0.51
Total Off-Site Area (ha)		1.83	Total Off-Site Habitat Baseline (BU)	5.30
Total Off-Site Area Excluding Urban Trees (ha)		1.71		
On-Site Hedgerows				
Line of broad-leaved trees (TN2)	Line of trees (w1g6)	0.15	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.31
Line of coniferous trees (TN3)	Line of trees (w1g6)	0.06	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.11
Species-rich intact hedgerow (TN4)	Species-rich native hedgerow (h2a5)	0.07	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	0.67
Species-poor intact hedgerow (TN9)	Native hedgerow (h2a)	0.11	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	0.51
Species-rich intact hedgerow (TN11)	Species-rich native hedgerow – associated with bank or ditch (h2a5)	0.16	Habitat is automatically classed as being of 'High' distinctiveness and was considered to be in 'Good' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	3.21

Table 3.1 (Continued): Summary of Existing Habitats and Linear Features (Continues)

Phase 1 Habitat	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (distinctiveness, condition, connectivity, and strategic significance)	Value (BU)
On-Site Hedgerows				
Species-rich intact hedgerow (TN12)	Species-rich native hedgerow (h2a5)	0.11	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Good' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	1.46
Species-rich intact hedgerow (TN21)	Species-rich native hedgerow (h2a5)	0.03	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	0.12
Total On-Site Length (km)		0.68	Total On-Site Hedgerow Baseline (BU)	6.40
Off-Site Hedgerows				
Species-rich intact hedgerow	Species-rich native hedgerow – associated with bank or ditch (h2a5)	0.33	Habitat is automatically classed as being of 'High' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	4.55
Line of broad-leaved trees	Line of trees – associated with bank or ditch (33)	0.13	Habitat is automatically classed as being of 'Low' distinctiveness and was considered to be in 'Poor' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.26
Total Off-Site Length (km)		0.46	Total Off-Site Hedgerow Baseline (BU)	4.81
On-Site Rivers and Streams				
Wet ditch (TN7)	Ditch (r1)	0.08	Habitat is automatically classed as being of 'Medium' distinctiveness and was considered to be in 'Moderate' condition based on the Phase 1 Habitat survey. This habitat is regarded as having 'Low' strategic significance as it is not formally identified within the local plan.	0.52
Total On-Site Length (km)		0.08	Total On-Site River Baseline (BU)	0.52

Table 3.1 (Continued): Summary of Existing Habitats and Linear Features

3.2 Future Baseline and Impacts

Description of the Future Baseline

The future baseline for the purposes of this assessment is set out in the Soft Landscaping Strategy Drawing TWZ-DZU-00-00-DR-L-00400-C03. An adapted version of this map (Drawing C160474-04-01-Rev F) is included in Section 5 showing how each landscaping area has been translated to a habitat type for the purpose of the Biodiversity Metric Assessment.

3.3 Habitat Creation / Enhancement

Table 3.2 below outlines the value of the proposed habitat creation/enhancements in the development proposals.

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target distinctiveness, condition, connectivity, strategic significance, and risk multipliers)	Value (BU)
On-Site Habitats				
Feature grasses	Vegetated garden (231)	0.02	Comprises the proposed feature grasses (i.e.: block planting of ornamental grasses to provide structure and height). This habitat is automatically assessed as being of 'Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance /within a local plan.	0.03
Habitat planting	Introduced shrub (48)	0.04	Comprises the proposed habitat planting (i.e.: a matrix planting of shrub species within the animal enclosures to provide screening and seasonal interest). This habitat is automatically assessed as being of 'Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance/within a local plan.	0.08
Building/ Hardstanding	Developed land; sealed surface (u1b)	0.96	Comprises the new areas of built development (buildings and hardstanding). This habitat is automatically assessed as being of 'Very Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance/within a local plan.	0.00

Table 3.2: Summary of Habitat Creation and Enhancement Proposals (continues)

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target condition, distinctiveness, connectivity, strategic significance, and risk multipliers)	Value (BU)
On-Site Habitats				
Introduced shrub	Introduced shrub (48)	0.01	Comprises the areas of proposed ornamental planting, including a mix of non-native specimens that will be planted. This habitat is automatically assessed as being of 'Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance/within a local plan.	0.01
Dense scrub – Mixed	Mixed scrub (h3h)	0.15	Comprises the areas of proposed native scrub planting (i.e.: planting of native hedgerow species which will form pockets of mixed scrub). This habitat is automatically assessed as being of 'Medium' distinctiveness and is deemed capable of achieving 'Moderate' condition based on its proposed management and extent on site. The extent of this habitat is not within an area of strategic significance identified within the local plan.	1.02
Pleached trees	Introduced shrub (48)	0.01	Comprises an area of proposed pleached trees. Non-native specimens will be planted to provide screening for the animal enclosures. This habitat is automatically assessed as being of 'Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance/within a local plan.	0.01
Scattered trees	Urban tree (11)	0.54	Comprises the proposed 133 native trees across the site. A mix of native specimens will be planted. These are anticipated to reach a small size (DBH over 7 cm and up to 30 cm) and deemed capable of achieving 'Moderate' condition. This habitat is formally identified within a local plan.	1.91
Themed planting	Introduced shrub (48)	0.08	Comprises the areas of proposed "themed" planting (i.e.: planting of specimen shrubs as well as herbaceous and grass species throughout public areas to evoke a "sense of Indonesia"). This habitat is automatically assessed as being of 'Low' distinctiveness and due to its limited attributes for biodiversity, is not assigned a condition. This habitat is not identified as being of strategic significance/within a local plan.	0.15

Table 3.2 (continued): Summary of Habitat Creation and Enhancement Proposals (continues)

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target condition, distinctiveness, connectivity, strategic significance, and risk multipliers)	Value (BU)
On-Site Habitats				
Standing water	Ponds (non-priority habitat) (r1g, 41)	0.03	Comprises the proposed pond and the waterbody plant mix in the centre/east of the site. This habitat is automatically assessed as being of 'Medium' distinctiveness and is deemed capable of achieving 'Moderate' condition, based on current condition of waterbodies within the zoo. This habitat is not identified as being of strategic significance/within a local plan.	0.19
Semi-improved neutral grassland	Other neutral grassland (g3c)	0.04	Comprises the area of proposed wetland meadow (i.e.: proposed sowing of Emorsgate EG8 to create a low maintenance wetland edge around the existing and proposed ditches). This habitat is automatically assessed as being of 'Medium' distinctiveness and is deemed capable of achieving 'Good' condition based on the proposed management regime. The extent of this habitat is not within an area of strategic significance identified within the local plan.	0.29
Semi-improved neutral grassland	Other neutral grassland (g3c)	0.35	Comprises areas of proposed neutral grassland mix and wildflower mix. At the time of writing, no seed mix was available for all areas, however, it is assumed a mix similar to Cumbria Wildflowers Neutral Hay Meadow Mix will be used. This habitat is automatically assessed as being of 'Medium' distinctiveness and is deemed capable of achieving 'Moderate' condition based on the proposed management regime. The extent of this habitat is not within an area of strategic significance identified within the local plan.	2.36
Scattered trees	Urban tree (11)	0.19	Comprises the proposed 46 feature trees across the site. A mix of non-native specimens will be planted. These are anticipated to be of small size and deemed capable of achieving 'Poor' condition. This habitat is not identified as being of strategic significance/within a local plan.	0.52
Enclosure grassland	Modified grassland (g4)	0.27	Comprises areas of proposed neutral grassland mix within the orang-utan enclosures. A mix similar to Cumbria Wildflowers Neutral Hay Meadow Mix will be used. This habitat is automatically assessed as being of 'Low' distinctiveness and is deemed capable of achieving 'Moderate' condition based on its intended use and the condition of other animal enclosures within the zoo. This habitat is not identified as being of strategic significance/within a local plan.	0.93

Table 3.2 (continued): Summary of Habitat Creation and Enhancement Proposals (continues)

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target distinctiveness, condition, connectivity, strategic significance, and risk multipliers)	Value (BU)
On-Site Habitats				
‘Grasscrete’	Modified grassland (g4)	0.04	Comprises the area of ‘grasscrete’ along the southern boundary. An amenity lawn mix will be used. This habitat is automatically assessed as being of ‘Low’ distinctiveness and is deemed capable of achieving ‘Poor’ condition based on its intended use. This habitat is not identified as being of strategic significance/within a local plan.	0.08
Total Creation (On-Site Area Habitats)		2.71	Total On-Site Habitat Creation (BU)	7.58
Total On-Site Creation Excluding Urban Trees		1.98		
Off-Site Habitats				
Plantation broad-leaved woodland	Other woodland; broad-leaved (w1g7)	0.15	Comprises a mix of native shrub and tree species. This habitat is automatically classed as being of ‘Medium’ distinctiveness and is deemed capable of achieving ‘Moderate’ condition based on its intended use. This habitat is not identified as being of strategic significance/within a local plan.	0.70
Dense scrub – Mixed	Mixed scrub (h3h)	0.70	Comprises the areas of proposed native scrub planting. This habitat is automatically assessed as being of ‘Medium’ distinctiveness and is deemed capable of achieving ‘Moderate’ condition based on its proposed management and extent on site. The extent of this habitat is not within an area of strategic significance identified within the local plan.	4.69
Semi-improved neutral grassland	Other neutral grassland (g3c)	0.66	Comprises areas of proposed neutral grassland mix, it is assumed a mix similar to Cumbria Wildflowers Neutral Hay Meadow Mix will be used. This habitat is automatically assessed as being of ‘Medium’ distinctiveness and is deemed capable of achieving ‘Moderate’ condition based on the proposed management regime. The extent of this habitat is not within an area of strategic significance identified within the local plan.	4.43

Table 3.2 (continued): Summary of Habitat Creation and Enhancement Proposals (continues)

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target distinctiveness, condition, connectivity, strategic significance, and risk multipliers)	Value (BU)
Off-Site Habitats				
Amenity grassland	Modified grassland (g4)	0.05	Comprises an area of grassland where an amenity lawn mix will be used. This habitat is automatically assessed as being of 'Low' distinctiveness and is deemed capable of achieving 'Poor' condition based on its intended use. This habitat is not identified as being of strategic significance/within a local plan.	0.10
Total Creation (Off-Site Area Habitats)		1.56	Total Off-Site Habitat Creation (BU)	9.92
On-Site Hedgerows				
Species-poor non-native hedgerow	Non-native and ornamental hedgerow	0.02	Comprises a proposed green screen in the south of the site. At the time of writing, no species mix was available, however, it is anticipated that this green screen will be species-poor and consist of non-native specimens. Habitat is automatically classed as being of 'Very Low' distinctiveness and is deemed capable of achieving 'Poor' condition based on its intended use and management. This habitat is not identified as being of strategic significance/within a local plan.	0.02
Species-rich intact hedgerow	Species-rich native hedgerow (h2a5)	0.26	Comprises a proposed species-rich hedge with eight species along the south-eastern boundary of the site. Habitat is automatically classed as being of 'Medium' distinctiveness and is deemed capable of achieving 'Good' condition based on its intended use. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	2.36
Total On-Site Creation (Length)		0.28	Total On-Site Hedgerow Creation (BU)	2.38
Species-rich hedgerow with trees	Species-rich native hedgerow with trees (h2a5)	0.11	Comprises the existing species-rich hedge along the southern boundary of the site to which trees will be added to become a hedge with trees. Habitat is automatically classed as being moved from 'Medium' distinctiveness to 'High' distinctiveness and is deemed capable of achieving 'Good' condition based on its intended use. This habitat is regarded as having 'High' strategic significance as hedgerows are formally identified within the local plan.	1.97
Total On-Site Enhancement (Length)		0.11	Total On-Site Hedgerow Enhancement (BU)	1.97

Table 3.2 (continued): Summary of Habitat Creation and Enhancement Proposals (continues)

Landscape Typology	UKHab Habitat Equivalent	Area (ha) / Length (km)	Description (target distinctiveness, condition, connectivity, strategic significance, and risk multipliers)	Value (BU)
Off-Site Hedgerows				
Species-rich intact hedgerow	Species-rich native hedgerow – associated with bank or ditch (h2a5)	0.33	Habitat is automatically classed as being of ‘High’ distinctiveness and is deemed capable of moving from ‘Moderate’ to ‘Good’ condition based on the baseline survey and future management. This habitat is regarded as having ‘High’ strategic significance as hedgerows are formally identified within the local plan.	6.67
Total Off-Site Enhancement (Length)		0.33	Total Off-Site Hedgerow Enhancement (BU)	6.67
On-Site Rivers and Streams				
Ditch	Ditches	0.06	Comprises new ditches within the central part of the site. The habitat type is automatically assessed as being of ‘Medium’ distinctiveness and is deemed capable of achieving ‘Good’ condition based on proposed management. This habitat is not identified as being of strategic significance/within a local plan.	0.38
Total On-Site Creation (Length)		0.06	Total On-Site River Creation (BU)	0.38

Table 3.2 (continued): Summary of Habitat Creation and Enhancement Proposals

3.4 Results

Table 3.3 details the headline and final results. Full details of the biodiversity metric calculations can be found in Appendix 1.

Headline Results				
On-Site Baseline	On-Site Baseline	Habitat units	15.80	
		Hedgerow units	6.40	
		Watercourse Units	0.52	
	On-Site Post Intervention	Habitat units	12.61	
		Hedgerow units	6.28	
		Watercourse Units	0.54	
	On-Site Net Unit Change (units & percentage)	Habitat units	-3.19	-20.20%
		Hedgerow units	-0.12	-1.94%
		Watercourse Units	0.02	3.93%

Table 3.3: Biodiversity Metric Assessment – Headline and Final Results (continues)

Headline Results					
Off-Site Baseline	Off-Site Baseline	Habitat units	5.30		
		Hedgerow units	4.81		
		Watercourse Units	0.00		
	Off-Site Post Intervention	Habitat units	11.73		
		Hedgerow units	6.93		
		Watercourse Units	0.00		
	Off-Site Net Unit Change (units & percentage)	Habitat units	6.43	121.38%	
		Hedgerow units	2.12	44.05%	
		Watercourse Units	0.00	0.00%	
Combined Net Unit Change (including all on-site & off-site habitat retention, creation & enhancement)		Habitat units	3.24		
		Hedgerow units	2.00		
		Watercourse Units	0.02		
Final Results					
Total Net Unit Change (including all on-site & off-site habitat retention, creation & enhancement)		Habitat units	3.24		
		Hedgerow units	2.00		
		Watercourse Units	0.02		
Total Net % Change (including all on-site & off-site habitat retention, creation & enhancement)		Habitat units	20.50%		
		Hedgerow units	31.19%		
		Watercourse Units	3.93%		
Trading Rules Satisfied			YES		

Table 3.3 (continued): Biodiversity Metric Assessment – Headline and Final Results

The proposals (habitat loss, retention, and creation combined) for the off-site area have not been finalised at the time of writing, therefore the off-site post-intervention habitat units result is subject to change. However, to make sure that the trading rules are satisfied and a 1% net gain occurs; the project has committed to the following habitat creation as a minimum (full details are provided in Appendix 2):

- Woodland in moderate condition: 0.076 ha providing 0.36 BU
- Mixed scrub in moderate condition: 0.28 ha providing 1.87 BU
- Neutral grassland in moderate condition: 0.48 ha providing 3.21 BU

The above ensures the trading rules are satisfied and provide a **1.08%** net gain.

4. Discussion and Recommendations

4.1 Conclusions

Biodiversity Change

Net Gains

The BMA identified that the proposed development will result in a net gain of **3.24 BU** (Habitats), **2.00 BU** (Hedgerows) and **0.02 BU** (Rivers and streams). These gains compensate for all loss of these features and secures a net gain for biodiversity.

The Leicester, Leicestershire, and Rutland Biodiversity Action Plan⁵ highlights that future development should have regard to the (then) future requirements of Schedule 14 of the Environment Act 2021. Upon its enactment (on the 12th of February 2024) this schedule had the function of amending the Town and Country Planning Act 1990 to mandate the delivery of the Biodiversity Gains Objective (BGO) for all new developments of applicable type. As this development was validated prior to the 12th of February 2024 it is not of a type required to meet the BGO (i.e., deliver +10% to biodiversity), as is now specified in Schedule 7A of the Town and Country Planning Act 1990 (as amended).

However, this exemption does not extend to the development's need to comply with local planning policy (for both biodiversity in general and hedgerow features), nor does it allow the scheme to result in a net-loss to biodiversity, as this is a pre-existing statutory minimum specified in Section 40 of the Natural Environment and Rural Communities Act 2006 (as amended).

With this considered it has been agreed with the local planning authority that a gain of at least 1% will be appropriate at this site, along with compliance of trading rules. This gain has been achieved with the combination of on-site (red-line boundary) and off-site (within the wider Twycross Zoo ownership) landscaping.

Landscape and Ecological Management Plan

The projected onsite habitat values given in this report are based on the assumption that an appropriate management plan will be implemented to ensure that the habitats, hedgerows, and river and stream features will be established and maintained to fulfil their intended biodiversity value. Biodiversity Net Gain Principles⁶ necessitates that any biodiversity units claimed must be deliverable over a minimum period of 30 years. As such, the recommended management plan must provide long-term management proposals and provide scope for monitoring and reporting, to demonstrate that the intended values will be achieved over a minimum 30-year period. A recommendation to this effect is included in Section 4.2 below.

4.2 Recommendations

R1 Landscape and Ecological Management and Monitoring Plan (LEMMP): A Landscape and Ecological Management and Monitoring Plan should be produced for all habitats, hedgerows, river and stream features proposed within the site (as well as within any biodiversity offsetting area located on land in the wider ownership of the zoo). The LEMMP

⁵ Timms, S. (2022). *Biodiversity Net Gain (Interim Approach Before Mandatory BNG Goes 'Live')*. Available at <https://www.leicestershire.gov.uk/sites/default/files/field/pdf/2022/10/5/Biodiversity-net-gain-interim-approach.pdf>

⁶ CIRIA, CIEEM, IEMA (2016) *Biodiversity Net Gain: Good Practice Principles for Development* [Available <https://cieem.net/wp-content/uploads/2019/02/Biodiversity-Net-Gain-Principles.pdf>]

should set out the appropriate establishment works, and management prescription required to achieve and maintain the intended type and condition of each habitat/hedgerow/river and stream feature proposed. The LEMMP should cover a minimum period of 30 years and include provisions for monitoring, review, reporting and contingency throughout. The LEMMP could be produced as part of a planning condition for the proposed development.

5. Drawings

Drawing C160474-02-01 Rev A – On Site Phase 1 Habitat Survey

Drawing C180537-01 – Off Site Phase 1 Habitat Survey

Drawing C160474-04-01 Rev F – Drawing Adaptation of the Landscape Masterplan for Purposes of the BMA



Legend

Site boundary

Scattered scrub

Scattered tree

Dry ditch

Fence

Line of broad-leaved trees

Line of coniferous trees

Species-poor intact hedgerow

Species-rich intact hedgerow

Wet ditch

Wall

Amenity grassland

Bare ground

Building

Dense scrub

Hardstanding

Introduced shrub

No access

Other habitat

Plantation broad-leaved woodland

Plantation coniferous woodland

Poor semi-improved grassland

Semi-improved neutral grassland

Standing water

Target note (feature)

Target note (habitat)

Project		Twycross Zoo	
Drawing		Phase 1 Habitat Map	
Client		Baker Mallett c/o Twycross Zoo	
Drawing Number	C160474-02-01-RevA	Revision	Rev A
Scale @ A3	1:700	Date	October 2023
Approved By	CH	Drawn By	BD

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C160474-02-01-RevA



C180537-01

Legend

Site boundary

Scattered tree - Medium

Fence

Line of trees

Species-rich intact hedgerow

Arable farmland

Dense scrub

Target note - habitat parcel

Project

Twycross Zoo Offsetting Area

Drawing

Phase 1 Habitat Map

Client

Baker Mallet LLP

Drawing Number

C180537-01

Revision

00

Scale @ A3

1:800

Date

November 2024

Approved By

CH

Drawn By

BD

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Legend

- Site boundary
- Proposed feature tree planting
- Proposed native tree planting
- Translocated tree
- Tree to be removed
- Tree to be retained
- Hedgerow with ditch to be removed
- Hedgerow with ditch to be retained
- Hedgerow to be enhanced
- Hedgerow to be removed

- Hedgerow to be retained
- Line of trees to be removed
- Line of trees to be retained
- Proposed ditch
- Proposed fence
- Proposed green screen
- Proposed hedgerow
- Wet ditch to be removed
- Wet ditch to be retained
- Proposed native mix scrub
- Proposed neutral grassland mix

- Proposed 'themed' planting
- Proposed enclosure modified grassland
- Proposed habitat feature grassland
- Proposed grasscrete
- Proposed habitat planting
- Proposed building and hardstanding
- Proposed meadow mix 1
- Proposed meadow mix 2
- Proposed ornamental planting
- Proposed pleached trees

- Proposed pond
- Proposed water body mix
- Proposed wetland meadow mix
- Retained habitat

Project	Twycross Zoo		
Drawing	Biodiversity Metric Assessment		
Client	Baker Mallett c/o Twycross Zoo		
Drawing Number	C160474-04-01-RevF	Revision	Rev F
Scale @ A3	1:700	Date	August 2025
Approved By	CH	Drawn By	BD
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C160474-04-01-RevF

Appendix 1

Biodiversity Metric 4.0. Calculation: National Conservation Science Centre, Twycross Zoo

The Biodiversity Metric 4.0 - Calculation Tool

Start page

Project details			
Planning authority:	Leicestershire County Council		
Project name:	National Science Conservation Centre, Twycross Zoo		
Applicant:	Baker Mallett LLP		
Application type:			
Planning application reference:			
Completed by:	Charline Hue		
Date of metric completion:	24 September 2025		
Reviewer:			
Version control:	Based on TWZ-DZU-00-00-DR-L-00400-C03 Soft Landscape Strategy		
Consenting body reviewer:			
Date of consenting body review:			
Target % net gain:	1%	Target set below 10% ▲	
Irreplaceable habitat present on-site at baseline:	No		
Total site area (including irreplaceable habitat area):	4.45	Irreplaceable habitat area at baseline:	0.00

Instructions

Main menu

Results

Cell style conventions	
▲	Attention required
▲	Input error/rules and principles not met
	Use of this cell is not appropriate
	Enter data
	Automatic lookup
	Result

View all

Reset view

On-site baseline map

Insert

On-site baseline map reference number

Off-site baseline map

Insert

Off-site baseline map reference number

On-site post intervention map

Insert

On-site post-intervention map reference number

Off-site post intervention map

Insert

Off-site post-intervention reference number

The Biodiversity Metric 4.0 - Calculation Tool Instructions

Double click the front page below to open the file

Start page

Main menu

Phase 1 - metric
habitat translation
tool

This guide can also be found as an Appendix to the main
Biodiversity Metric 4.0 – User guide.

The Biodiversity Metric 4.0

Short Data Input Guide

First published March 2023

Natural England Joint Publication JP039

www.gov.uk/natural-england



Area habitats

Hedgerows and lines of trees

Watercourses

The Biodiversity Metric 4.0 - Calculation Tool

Main menu

Start page

Instructions

Technical data

Results

Tree helper						
Tree size	Number of trees and area (ha) for each condition state					
	Poor	Area	Moderate	Area	Good	Area
Small	46	0.1873	133	0.5415	6	0.0244
Medium		0.0000	2	0.0733	4	0.1466
Large		0.0000		0.0000	1	0.0765
Total	46	0.1873	135	0.6148	11	0.2475

Start here

1

2

3

4

On-site
baseline

A-1 On-site Area Habitat Baseline

B-1 On-site Hedge Baseline

C-1 On-site Watercourse Baseline

On-site post development

A-2 On-site Area Habitat Creation

A-3 On-site Area Habitat Enhancement

B-2 On-site Hedge Creation

B-3 On-site Hedge Enhancement

C-2 On-site Watercourse Creation

C-3 On-site Watercourse Enhancement

Off-site baseline

D-1 Off-site Area Habitat Baseline

E-1 Off-site Hedge Baseline

F-1 Off-site Watercourse Baseline

Off-site post development

D-2 Off-site Area Habitat Creation

D-3 Off-site Area Habitat Enhancement

E-2 Off-site Hedge Creation

E-3 Off-site Hedge Enhancement

F-2 Off-site Watercourse Creation

F-3 Off-site Watercourse Enhancement

The Biodiversity Metric 4.0 - Calculation Tool

Results

Return to start
page

Headline results

Detailed results

Habitat trading
summaries

Off-site
summary

On-site baseline	Habitat units	15.80		
	Hedgerow units	6.40		
	Watercourse units	0.52		
On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	12.61		
	Hedgerow units	6.28		
	Watercourse units	0.54		
On-site net change (units & percentage)	Habitat units	-3.19	-20.20%	On-site net gain is less than target set ⚠
	Hedgerow units	-0.12	-1.94%	On-site net gain is less than target set ⚠
	Watercourse units	0.02	3.93%	

Off-site baseline	Habitat units	5.30		
	Hedgerow units	4.81		
	Watercourse units	0.00		
Off-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	11.73		
	Hedgerow units	6.93		
	Watercourse units	0.00		
Off-site net change (units & percentage)	Habitat units	6.43	121.38%	
	Hedgerow units	2.12	44.05%	
	Watercourse units	0.00	0.00%	

Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	3.24		
	Hedgerow units	2.00		
	Watercourse units	0.02		
Spatial risk multiplier (SRM) deductions	Habitat units	0.00		
	Hedgerow units	0.00		
	Watercourse units	0.00		

FINAL RESULTS		
Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	3.24
	Hedgerow units	2.00
	Watercourse units	0.02
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	20.50%
	Hedgerow units	31.19%
	Watercourse units	3.93%
Trading rules satisfied?	Yes ✓	

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	1.00%	15.80	15.95	0.00	Unit requirement met or surpassed ✓ Unit requirement met or surpassed ✓ Unit requirement met or surpassed ✓
Hedgerow units	1.00%	6.40	6.46	0.00	
Watercourse units	1.00%	0.52	0.52	0.00	

Net project biodiversity units (including all on-site & off-site habitat retention / creation)	Habitat units	3.84
	Hedgecover units	2.00
	Watercourse units	0.08
Total project biodiversity % change (including all on-site & off-site habitat creation + retained habitats)	Habitat units	20.80%
	Hedgecover units	31.19%
	Watercourse units	3.60%

Area habitats

On-site changes by breed habitat type						
Breed group	Baseline		Post-development on-site		On-site change	
	On-site meeting area	On-site meeting fence	On-site prepared area	On-site prepared fence	On-site change	On-site change
Overall	0.00	0.00	0.00	0.00	0.00	0.00
2000-2009	0.00	0.00	0.00	0.00	0.00	0.00
2010-2019	0.00	0.00	0.00	0.00	0.00	0.00
2020-2029	0.00	0.00	0.00	0.00	0.00	0.00
30-39 years	0.00	0.00	0.00	0.00	0.00	0.00
40-49 years	0.00	0.00	0.00	0.00	0.00	0.00
50-59 years	0.00	0.00	0.00	0.00	0.00	0.00
60-69 years	0.00	0.00	0.00	0.00	0.00	0.00
70-79 years	0.00	0.00	0.00	0.00	0.00	0.00
80-89 years	0.00	0.00	0.00	0.00	0.00	0.00
90-99 years	0.00	0.00	0.00	0.00	0.00	0.00
100+ years	0.00	0.00	0.00	0.00	0.00	0.00
White	0.00	0.00	0.00	0.00	0.00	0.00
Black	0.00	0.00	0.00	0.00	0.00	0.00
Hispanic	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00

[illegible]

Combined on-site and off-site change by broad build type						
Builder group	Baseline		On-site and off-site post-implementation		Combined change	
	Combined estimated value	Combined estimated value	Combined estimated value	Combined estimated value	Combined estimated value	Combined estimated value
Overall	1.06	-0.13	0.00	0.00	1.06	-0.13
Commercial	1.00	-0.10	0.00	0.00	1.00	-0.10
Manufacturing/industrial	1.00	-0.10	0.00	0.00	1.00	-0.10
Healthcare	1.00	-0.10	0.00	0.00	1.00	-0.10
Education	1.00	-0.10	0.00	0.00	1.00	-0.10
Government	1.00	-0.10	0.00	0.00	1.00	-0.10
Other	1.00	-0.10	0.00	0.00	1.00	-0.10
Workforce development	1.00	-0.10	0.00	0.00	1.00	-0.10
Immigrant settlement	1.00	-0.10	0.00	0.00	1.00	-0.10
Organic materials	1.00	-0.10	0.00	0.00	1.00	-0.10
Climate resilient	1.00	-0.10	0.00	0.00	1.00	-0.10
Water conservation	1.00	-0.10	0.00	0.00	1.00	-0.10
Waste management	1.00	-0.10	0.00	0.00	1.00	-0.10
Transportation	1.00	-0.10	0.00	0.00	1.00	-0.10
Energy efficiency	1.00	-0.10	0.00	0.00	1.00	-0.10
Water conservation	1.00	-0.10	0.00	0.00	1.00	-0.10
Waste management	1.00	-0.10	0.00	0.00	1.00	-0.10
Transportation	1.00	-0.10	0.00	0.00	1.00	-0.10
Energy efficiency	1.00	-0.10	0.00	0.00	1.00	-0.10

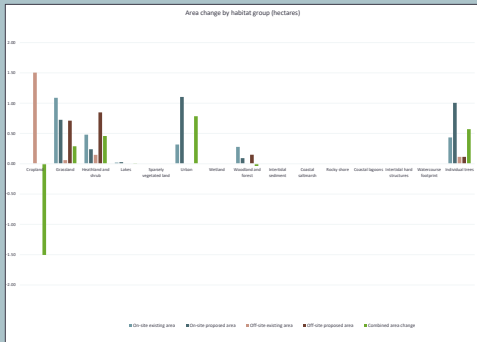
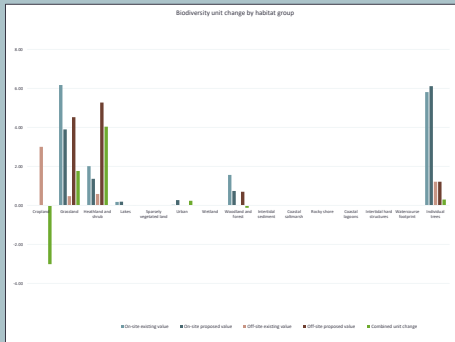
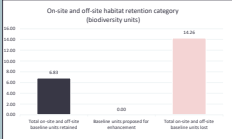
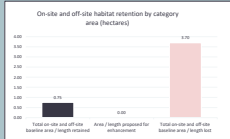
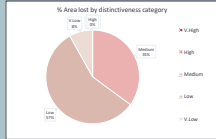
[illegible][illegible][illegible]

	On-site change by watercourse type		Part development on site		On-site change	
	On-site existing length	On-site existing value	On-site proposed length	On-site proposed value	On-site net change	On-site net change
Watercourse type						
Stream/tributary	0.0	0.0	0.0	0.0	0.0	0.0
Other ditches and drains	0.0	0.0	0.0	0.0	0.0	0.0
Parade	0.1	0.5	0.1	0.5	0.0	0.0
Drain	0.0	0.0	0.0	0.0	0.0	0.0
Ditch	0.0	0.0	0.0	0.0	0.0	0.0

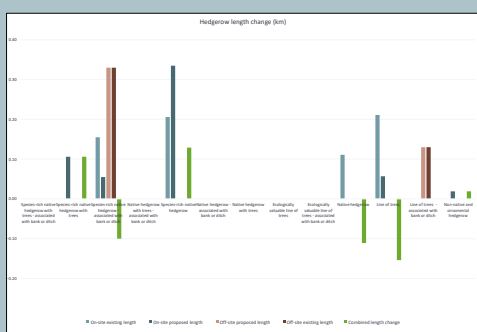
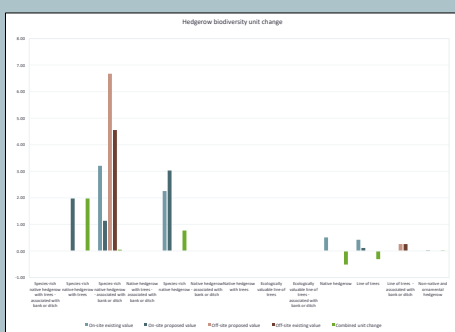
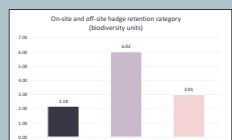
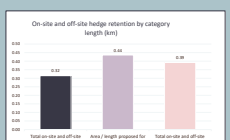
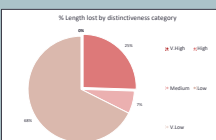
CF-sites chosen by meteorologists from		Post development of site		CF-site Change	
Baseline					
Wetness type	CF-site existing length	CF-site existing value	CF-site proposed length	CF-site proposed value	CF-site new change
Other, rocky and shallow	0.0	0.0	0.0	0.0	0.0
Other, rocky and shallow	0.0	0.0	0.0	0.0	0.0
Channel	0.0	0.0	0.0	0.0	0.0
Channel	0.0	0.0	0.0	0.0	0.0

Watercourse type	Combined on-site and off-site change by watercourse type				On-site change	
	Positive		Post-developed on-site		On-site change	
	Combined existing length	Combined existing values	Combined proposed length	Combined proposed values	Combined length	Combined unit change
Publicly defined	0.0	0.0	0.0	0.0	0.0	0.0
Publicly defined watercourse	0.0	0.0	0.0	0.0	0.0	0.0
Private	0.0	0.0	0.0	0.0	0.0	0.0
Private watercourse	0.0	0.0	0.0	0.0	0.0	0.0
Private	0.0	0.0	0.0	0.0	0.0	0.0
Private watercourse	0.0	0.0	0.0	0.0	0.0	0.0

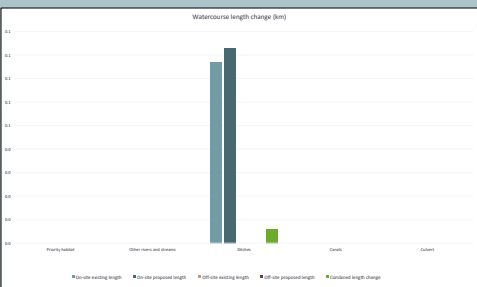
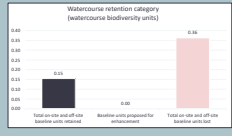
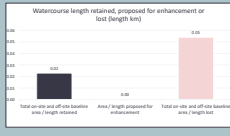
Category	Area lost (barstare)	Area lost (%)
V High	0	
High	0	
Medium	1.899	35
Low	2.1	57
V Low	0.899	8



Category	Length lost (km)	Length lost (%)
V.High	0	
High	0.1	20
Medium	0.007	7
Low	0.006	68
V.Low	0	



Category	Length lost (km)	Length lost (%)
Very High	0	
High	0	
Medium	0.004	100
Low	0	



Trading
summary
hedgerows

Trading
summary
Watercourses

Very High Distinctiveness				
Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change
Grassland - Lowland dry forest grassland	Grassland	0.00	0.00	0.00
Grassland - Lowland wetland	Grassland	0.00	0.00	0.00
Grassland - Upland dry meadow	Grassland	0.00	0.00	0.00
Heathland and shrub - Mountain heath and yellow scrub	Heathland and shrub	0.00	0.00	0.00
Lake - Aquatic and naturally fluctuating water bodies	Lake	0.00	0.00	0.00
Sparsely vegetated land - Coastal scrub	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Lowland pavement	Sparsely vegetated land	0.00	0.00	0.00
Wetland - Deciduous forest	Wetland	0.00	0.00	0.00
Wetland - Deciduous dry forest (subtropical) (H110)	Wetland	0.00	0.00	0.00
Wetland - Forest (upland and lowland)	Wetland	0.00	0.00	0.00
Wetland - Lowland mixed forest	Wetland	0.00	0.00	0.00
Wetland - Oceanic valley mangrove (H102)	Wetland	0.00	0.00	0.00
Wetland - Pangea shrub mangrove and mangrove forest	Wetland	0.00	0.00	0.00
Wetland - Pangea shrub mangrove and coastal forest	Wetland	0.00	0.00	0.00
Woodland and forest - Wood savanna and woodland	Woodland and forest	0.00	0.00	0.00
Rocky shrub - High mountain shrub - mountain shrub or shrub	Rocky shrub	0.00	0.00	0.00
Rocky shrub - Moderate energy forest - oak - pine, clay or shale	Rocky shrub	0.00	0.00	0.00
Rocky shrub - Low energy forest - oak - pine, clay or shale	Rocky shrub	0.00	0.00	0.00
Rocky shrub - Picea or fir forest - oak - pine, clay or shale	Rocky shrub	0.00	0.00	0.00
Terrestrial wetland - Natural wetland on sand, clay or shale	Terrestrial wetland	0.00	0.00	0.00
		0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00

Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change	Looses not yet accounted for
Crestedbill - Traditional orchards	Crestedbill	0.00	0.00	0.00	
Groswings - Woodpecker wetland meadow and CFSM	Groswings	0.00	0.00	0.00	
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	
Grassland - Tall herb-rich grassland	Grassland	0.00	0.00	0.00	
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Downs with oak heathlands (RHS)	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Upland heathland	Heathland and shrub	0.00	0.00	0.00	
Lakes - High alpine lakes	Lakes	0.00	0.00	0.00	
Lakes - Low alpine lakes	Lakes	0.00	0.00	0.00	
Lakes - Marsh lakes	Lakes	0.00	0.00	0.00	
Lakes - Mountain alpine lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat lakes	Lakes	0.00	0.00	0.00	
Lakes - Ponds (lenticry habitats)	Lakes	0.00	0.00	0.00	
Lakes - Temporary lakes ponds and pools (HLS)	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Coastal salt marshes	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Coastal vegetation	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Island rock masses and coral habitats	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Maritime dune	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Open moorland landscape periodically developed land	Urban	0.00	0.00	0.00	
Woodland - Broadleaved	Woodland	0.00	0.00	0.00	
Woodland and forest - Forest	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland broad and low woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland mixed autochthon	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	
Body shone - High energy littoral rock	Body shone	0.00	0.00	0.00	
Body shone - Medium energy littoral rock	Body shone	0.00	0.00	0.00	
Body shone - Low energy littoral rock	Body shone	0.00	0.00	0.00	
Body shone - Features of littoral rock	Body shone	0.00	0.00	0.00	
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral muddy sands	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral coarse sands	Intertidal sediment	0.00	0.00	0.00	
Control sediment - Submarine and saline rocks	Control sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral limestone reefs	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral boulder reef	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Features of littoral rock	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral rocky sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral silt and mud	Intertidal sediment	0.00	0.00	0.00	
		9.00	0.00	0.00	0.00

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

[illegible]

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	6.60
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	0.00
Higher Distinctiveness Surplus Units minus Medium Distinctiveness Broad Habitat Deficit	0.00
Cumulative surplus of units	6.60

[illegible]

Low Distinctiveness Summary	
Low Distinctiveness net change in units	+3.5%
Cumulative surplus of units	+3.4%

Return to results menu

Trading summary Area Habitats

Trading summary hedgerows

Trading Summary		
Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required ✖	Yes ✓
High	Same habitat required =	Yes ✓
Medium	Same habitat required =	Yes ✓
Low	Better distinctiveness habitat required	Yes ✓

Very High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
Priority habitat	0.00	0.00	0.00
	0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00

High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
Other rivers and streams	0.00	0.00	0.00
	0.00	0.00	0.00

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Unit Deficit; Like for like not satisfied	0.00

Medium Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Ditches	0.02	0.00	0.02
Canals	0.00	0.00	0.00
	0.02	0.00	0.02

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	0.02
Unit Deficit; Like for like not satisfied	0.00

Low Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Culvert	0.00	0.00	0.00
	0.00	0.00	0.00

Low Distinctiveness Summary	
Low Distinctiveness net change in units	0.00
Cumulative availability of units	0.02

Project Name: National Science Conservation Centre, Twycross Zoo

Map Reference:

A-1 On-Site Habitat Baseline

Condense / Show Columns

Condense / Show Rows

Main Menu

Instructions

Area habitat summary	
Total Net Unit Change	3.24
Total Net % Change	20.50%
Trading Rules Satisfied	Yes ✓

Ref	Existing area habitats			Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Ecological baseline
	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic Significance	Strategic Significance multiplier		Total habitat units
1	Grassland	Modified grassland	0.132	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.53
2	Grassland	Modified grassland	0.286	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.57
3	Urban	Developed land; sealed surface	0.01	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00
4	Heathland and shrub	Mixed scrub	0.458	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	1.83
8	Urban	Developed land; sealed surface	0.29	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00
8	Woodland and forest	Other coniferous woodland	0.117	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.47
7	Woodland and forest	Other woodland; broadleaved	0.113	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	0.90
8	Woodland and forest	Other woodland; broadleaved	0.011	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	0.04
9	Grassland	Other neutral grassland	0.62	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	4.96
10	Grassland	Other neutral grassland	0.008	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	0.03
11	Lakes	Ponds (non-priority habitat)	0.02	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required ≥	0.18
12	Urban	Introduced shrub	0.012	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.02
13	Urban	Bare ground	0.006	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.01
14	Grassland	Modified grassland	0.04	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.08
16	Woodland and forest	Other woodland; broadleaved	0.038	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	0.15
16	Individual trees	Urban tree	0.041	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required ≥	0.38
17	Individual trees	Urban tree	0.394	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required ≥	5.44
18	Urban	Modified grassland	0.003	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.01
19	Heathland and shrub	Mixed scrub	0.023	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required ≥	0.18
20												
21												
22												
23												
24												
Total habitat area			2.62									
Site Area (Excluding area of Individual trees and Green walls)			2.19									

Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments		
Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost		User comments	Consenting body comments	GIS reference number
0	0	0.00	0.00	0.13	0.53		Amenity grassland		TN13
0	0	0.00	0.00	0.29	0.57		Amenity grassland		TN14 and 15
0	0	0.00	0.00	0.01	0.00		Building		TN23
0.088	0	0.35	0.00	0.37	1.48		Dense scrub, mixed		TN 6, 10, 42, and 43
0.001	0	0.00	0.00	0.29	0.00		Hardstanding		TN22
0	0	0.00	0.00	0.12	0.47		Conifer plantation woodland		TN5
0.093	0	0.74	0.00	0.02	0.16		Broad-leaved plantation woodland		TN1
0	0	0.00	0.00	0.01	0.04		Broad-leaved plantation woodland		TN24
0.03	0	0.24	0.00	0.59	4.72		Semi-improved neutral grassland		TN19
0	0	0.00	0.00	0.01	0.03		Poor semi-improved grassland		TN38
0	0	0.00	0.00	0.02	0.18		Pond		TN8
0	0	0.00	0.00	0.01	0.02		Ornamental planting		TN39
0	0	0.00	0.00	0.01	0.01		Bare ground		TN16
0	0	0.00	0.00	0.04	0.08		Other habitat -ground within the primate enclosure comprising bare ground, bark chippings, and common and introduced grass species		TN18
0	0	0.00	0.00	0.04	0.15		30 early-mature to mature, hybrid black poplars situated close together in the tufted deer enclosures forming a plantation woodland		TN17
0.029	0	0.27	0.00	0.01	0.11		10 moderate condition trees; all of small size, 6 of these to be retained (TN28 x 1, TN33 x 1, TN45 x 4) and 1 to be relocated (TN33 x 1). Most of the trees are deemed to be semi-mature to mature. Mature trees are formally identified within the LBAP.		TN28 (Sx3), TN33 (Sx2), TN45 (Sx4), and TN48 (Sx1)
0.248	0	3.42	0.00	0.15	2.01		15 good condition trees; 1 of large size, 8 of medium size, and 6 of small size. 11 of these are to be retained including 1 in good condition and of large size (TN32); 4 in good condition and of med size (TN27, TN36 and TN46 x 2); and 6 in good condition and of small size (TN26, TN29, TN30, TN44 x 3). Most of the trees are deemed to be semi-mature to mature. Mature trees are formally identified within the LBAP.		TN26 (Sx1), TN27 (Mx1), TN29 (Sx1), TN30 (Sx1), TN31 (Mx1), TN32 (Lx1), TN35 (Mx1), TN36 (Mx1), TN44 (Sx3), TN46 (Mx2) and TN47 (Mx2)
0	0	0.00	0.00	0.00	0.01		No access but anticipated to be similar to TN16		TN40
0	0	0.00	0.00	0.02	0.18		Dense scrub, mixed		TN37
0.49	0.00	5.03	0.00	2.13	10.77				

Total area lost (excluding area of Individual trees and Green walls)	1.98
--	------

M² to hectares conversion tool:

Select a unit

Hectares

M²

Condense / Show Columns	Condense / Show Rows
Main Menu	Instructions

Area habitat summary	
Total Net Unit Change	3.24
Total Net % Change	30.86%
Trading Rules Satisfied	Yes ✓
Area Check (excluding individual trees and green walls)	Area Acceptable ✓

[illegible]

[illegible]

Project Name: National Science Conservation Centre, Twycross Zoo

D-2 Off-Site Habitat Creation

Collapse / Show Columns

Collapse / Show Rows

Main Menu

Instructions

Area habitat summary

Total Net Unit Change

9.24

Total Net % Change

90.52%

Tracing Rules Satisfied

Yes ✓

Areas Check (excluding individual trees and green walls)

Areas Accomplishable ✓

Post development/ post intervention habitats																											
Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance		Temporal risk multiplier						Difficulty risk multipliers				Spatial risk multiplier		Habitat units delivered	Comments					
							Strategic significance	Strategic significance multiplier	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Spatial risk category	Spatial risk multiplier		User comments	Consenting body comments	GIS reference number	OS-site reference		
Woodland and forest	Other woodland broadleaved	0.15	Medium	4	Moderate	2	Areas compensation not in local strategy/no local strategy	Low Strategic Significance	1	15	0	0	Standard time to target condition applied	15	0.586	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	0.70					
Heathland and shrub	Mixed scrub	0.7	Medium	4	Moderate	2	Areas compensation not in local strategy/no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	4.69					
Grassland	Other neutral grassland	0.663	Medium	4	Moderate	2	Areas compensation not in local strategy/no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	4.43					
Grassland	Modified grassland	0.05	Low	2	Poor	1	Areas compensation not in local strategy/no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.995	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	0.10					
Total habitat area		1.56																									
Site Area (Excluding areas of Individual Trees and Green Walls)		1.56																									
M² to hectares conversion tool:		Select a unit	Hectares	M²																							

Project Name: National Science Conservation Centre, Twycross Zoo

Map Reference: B-1 On-Site Hedge Baseline

Condense / Show Columns

Condense / Show Rows

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Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.19%
Trading Rules Satisfied	Yes ✓

Baseline ref	Existing hedgerow habitats			Distinctiveness	Condition	Strategic significance	Required Action to Meet Trading Rules	Ecological baseline
	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Condition	Strategic significance		Total hedgerow units
1	TN2	Line of trees	0.154	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	0.31
2	TN3	Line of trees	0.057	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	0.11
3	TN9	Native hedgerow	0.111	Low	Moderate	Formally identified in local strategy	Same distinctiveness band or better	0.51
4	TN4	Species-rich native hedgerow	0.073	Medium	Moderate	Formally identified in local strategy	Same distinctiveness band or better	0.67
5	TN21	Species-rich native hedgerow	0.027	Medium	Poor	Formally identified in local strategy	Same distinctiveness band or better	0.12
6	TN11	Species-rich native hedgerow - associated with bank or ditch	0.155	High	Good	Formally identified in local strategy	Like for like or better	3.21
7	TN12	Species-rich native hedgerow	0.106	Medium	Good	Formally identified in local strategy	Same distinctiveness band or better	1.46
8								
9								
10								
			0.68					8.40

Retention category biodiversity value						Comments		GIS reference number
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Consenting body comments	
0	0	0.00	0.00	0.15	0.31			TN2
0.057	0	0.11	0.00	0.00	0.00			TN3
0	0	0.00	0.00	0.11	0.51			TN9
0.073	0	0.67	0.00	0.00	0.00			TN4
0	0	0.00	0.00	0.03	0.12			TN21
0.055	0	1.14	0.00	0.10	2.07			TN11
0	0.106	0.00	1.46	0.00	0.00			TN12
0.19	0.11	1.92	1.46	0.39	3.01			

Map Name: National Science Conservation Centre, Twycross Zoo

Map Refer

B-2 On-Site Hedge Creation

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Condense / Show Rows

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Instructions

Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.19%
Trading Rules Satisfied	Yes ✓

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments		
Baseline ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of crection	Applied difficulty multiplier	Final difficulty of crection	Difficulty multiplier applied		User comments	Consenting body comments	GIS reference number
1		Non-native and ornamental hedgerow	0.019	V.Low	1	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	0.02	Proposed green screen (no species mix available at the time of writing, but anticipated to be species-poor and non-native)		
2		Species-rich native hedgerow	0.262	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	12	0	0	Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	2.36	Proposed native hedgerow with 8 species		
3																								
4																								
5																								
6																								
			0.28																					
			2.36																					

[illegible]

pe: National Science Conservation Centre, Twycross Zoo Map

E-1 Off-Site Hedge Baseline

Condense / Show Columns

Condense / Show Rows

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Instructions

Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.18%
Trading Rules Satisfied	Yes ✓

Existing hedgerow habitats				Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Spatial risk multiplier		Ecological baseline	Retention category biodiversity value						Comments		GIS reference number	Off-site reference	
Baseline ref	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance		Strategic significance		Strategic position multiplier	Spatial risk category		Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments			Consenting body comments
1	TN1	Species-rich native hedgerow - associated with bank or ditch	0.33	High	6	Moderate	2	Formally identified in local strategy		High strategic significance	1.15	Like for like or better	Compensation inside LPA boundary or NCA of impact site		4.55	0	0.33	0	4.554	0.00	0.00			TN1	
2	TN4	Line of trees - associated with bank or ditch	0.13	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy		Low Strategic Significance	1	Same distinctiveness band or better	Compensation inside LPA boundary or NCA of impact site		0.26	0.13	0	0.26	0	0.00	0.00			TN4	
3																									
4																									
5																									
6																									
7																									
			0.46												4.81	0.13	0.33	0.26	4.55	0.00	0.00				

Project Name: National Science Conservation										Hedge row summary									
E-3 Off-Site Hedge Enhancement										Total Net Cost Change									
Condition: Above Substrate										Total Net % Change									
Map View										Treeline Row Position									
										Row 2									

Project Name: National Science Conservation Centre,
C-1 On-Site WaterC' Baseline

Condense / Show Columns

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Watercourse summary	
Total Net Unit Change	0.08
Total Net % Change	3.83%
Trading Rules Satisfied	Yes ✓

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Ecological baseline	Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments		GIS reference number
Baseline ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Total watercourse units	Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost		User Comments	Consenting body comments	
1	Ditches	0.077	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	No Encroachment	1	Major/Minor	0.84	Same habitat required =	0.52	0.023	0	0.15	0.00	0.05	0.36		Part of wet ditch to be lost for the proposed orangutan enclosure, rest to be retained as is		TN7
2																									
3																									
4																									
5																									
6																									
7																									
		0.08														0.02	0.00	0.15	0.00	0.05	0.36				

Project Name: National Science Conservation Centre, Twydross 200
Max. Reference:

C-2 On-Site WaterC^o Creation

Condense / Show Columns

Condense / Show Rows

Main Menu

Instructions

Watercourse summary	
Total Net Unit Change	0.02
Total Net % Change	3.83%
Trading Rules Satisfied	Yes ✓

Baseline ref	Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier					Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Watercourse units delivered	Comments			
	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks		Multiplier	User comments	Consenting body comments	GIS reference number
1	Ditches	0.06	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0	0	Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	Minor	0.8	Minor/ Minor	0.95	0.38			
2																											
3																											
4																											
5																											
6																											
		0.06																					0.38				

Broad Habitats	Overlapped Broad Habitat Label
Cropland	Cropland
Grassland	Grassland
Wetland and shrub	Wetland_and_shrub
Lake	Lake
Sparsely vegetated land	Sparsely_vegetated_land
Barren land	Barren land
Wetland and bare	Wetland_and_bare
Barley alone	Barley_alone
Crooked channels and bare land	Crooked_channels and_bare_land
Intertidal flat or wetland	Intertidal_flat_or_wetland
Wetland or bog/peat	Wetland_or_bog/peat
Intertidal zone	Intertidal_zone

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Ⓢ This tool is intended to be used for historic data. Any suggested translation between a phase 1 habitat and metric habitat should not be considered a rule - there may be circumstances where a more appropriate metric habitat may be chosen when ecological expertise is applied.

[illegible]

The Biodiversity Metric 4.0 - Calculation Tool

Technical Data

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All area habitats

Area habitat groups

Multipliers

Temporal multipliers

Enhancement
temporal multipliers

Hedgerow data

Watercourse data

Condition data

Phase 1 - metric
habitat translation tool

Appendix 2

Biodiversity Metric 4.0. Calculation: National Conservation Science Centre, Twycross Zoo - Minimum requirement

The Biodiversity Metric 4.0 - Calculation Tool

Start page

Project details			
Planning authority:	Leicestershire County Council		
Project name:	National Science Conservation Centre, Twycross Zoo		
Applicant:	Baker Mallett LLP		
Application type:			
Planning application reference:			
Completed by:	Charline Hue		
Date of metric completion:	24 September 2025		
Reviewer:			
Version control:	Based on TWZ-DZU-00-00-DR-L-00400-C03 Soft Landscape Strategy		
Consenting body reviewer:			
Date of consenting body review:			
Target % net gain:	1%	Target set below 10% ▲	
Irreplaceable habitat present on-site at baseline:	No		
Total site area (including irreplaceable habitat area):	4.45	Irreplaceable habitat area at baseline:	0.00

Instructions

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Results

Cell style conventions	
▲	Attention required
▲	Input error/rules and principles not met
	Use of this cell is not appropriate
	Enter data
	Automatic lookup
	Result

View all

Reset view

On-site baseline map

Insert

On-site baseline map reference number

Off-site baseline map

Insert

Off-site baseline map reference number

On-site post intervention map

Insert

On-site post-intervention map reference number

Off-site post intervention map

Insert

Off-site post-intervention reference number

The Biodiversity Metric 4.0 - Calculation Tool Instructions

Double click the front page below to open the file

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Phase 1 - metric
habitat translation
tool

**This guide can also be found as an Appendix to the main
Biodiversity Metric 4.0 – User guide.**

The Biodiversity Metric 4.0

Short Data Input Guide

First published March 2023

Natural England Joint Publication JP039

www.gov.uk/natural-england





Area habitats



Hedgerows and lines of trees



Watercourses

The Biodiversity Metric 4.0 - Calculation Tool

Main menu

Tree helper						
Tree size	Number of trees and area (ha) for each condition state					
	Poor	Area	Moderate	Area	Good	Area
Small	46	0.1873	133	0.5415	6	0.0244
Medium		0.0000	2	0.0733	4	0.1466
Large		0.0000		0.0000	1	0.0765
Total	46	0.1873	135	0.6148	11	0.2475

Start here

Start page

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Technical data

Results

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On-site
baseline

A-1 On-site Area Habitat Baseline



B-1 On-site Hedge Baseline



C-1 On-site Watercourse Baseline



On-site post development

A-2 On-site Area Habitat Creation



A-3 On-site Area Habitat Enhancement



B-2 On-site Hedge Creation



B-3 On-site Hedge Enhancement



C-2 On-site Watercourse Creation



C-3 On-site Watercourse Enhancement



Off-site baseline

D-1 Off-site Area Habitat Baseline



E-1 Off-site Hedge Baseline



F-1 Off-site Watercourse Baseline



Off-site post development

D-2 Off-site Area Habitat Creation



D-3 Off-site Area Habitat Enhancement



E-2 Off-site Hedge Creation



E-3 Off-site Hedge Enhancement



F-2 Off-site Watercourse Creation



F-3 Off-site Watercourse Enhancement



The Biodiversity Metric 4.0 - Calculation Tool

Results

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page

Headline results

Detailed results

Habitat trading
summaries

Off-site
summary

Return to results menu

On-site baseline	Habitat units	15.80		
	Hedgerow units	6.40		
	Watercourse units	0.52		
On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	12.61		
	Hedgerow units	6.28		
	Watercourse units	0.54		
On-site net change (units & percentage)	Habitat units	-3.19	-20.20%	On-site net gain is less than target set ⚠
	Hedgerow units	-0.12	-1.94%	On-site net gain is less than target set ⚠
	Watercourse units	0.02	3.93%	

Off-site baseline	Habitat units	5.30		
	Hedgerow units	4.81		
	Watercourse units	0.00		
Off-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	8.66		
	Hedgerow units	6.93		
	Watercourse units	0.00		
Off-site net change (units & percentage)	Habitat units	3.36	63.45%	
	Hedgerow units	2.12	44.05%	
	Watercourse units	0.00	0.00%	

Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	0.17		
	Hedgerow units	2.00		
	Watercourse units	0.02		
Spatial risk multiplier (SRM) deductions	Habitat units	0.00		
	Hedgerow units	0.00		
	Watercourse units	0.00		

FINAL RESULTS		
Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	0.17
	Hedgerow units	2.00
	Watercourse units	0.02
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	1.08%
	Hedgerow units	31.19%
	Watercourse units	3.93%
Trading rules satisfied?	Yes ✓	

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	1.00%	15.80	15.95	0.00	Unit requirement met or surpassed ✓ Unit requirement met or surpassed ✓ Unit requirement met or surpassed ✓
Hedgerow units	1.00%	6.40	6.46	0.00	
Watercourse units	1.00%	0.52	0.52	0.00	

Summary Figures

Net project biodiversity units (Including all on-site & off-site habitat retention / creation)		Habitat units	0.17
		Hedgecroft units	2.00
		Watercourse units	0.03
Total project biodiversity unit% change (Including all on-site & off-site habitat creation + retained habitats)		Habitat units	1.00%
		Hedgecroft units	31.19%
		Watercourse units	5.83%

Combined habitat selection and enhancement			
	Hedgehogs	White-crowns	
Total on-site and off-site baseline area (ha)	4.45	4.44	2.08
Total on-site and off-site baseline units	79.70	79.70	1.17
Total on-site and off-site baseline area (length of transect)	0.40	0.40	0.10
Total on-site and off-site baseline units retained	0.40	0.18	0.10
Area's length proposed for enhancement	0.40	0.40	0.40
Baseline units proposed for enhancement	0.40	0.22	0.22
Total on-site and off-site baseline area (length of transect)	3.55	4.04	2.08
Total on-site and off-site baseline units	79.70	79.70	1.17

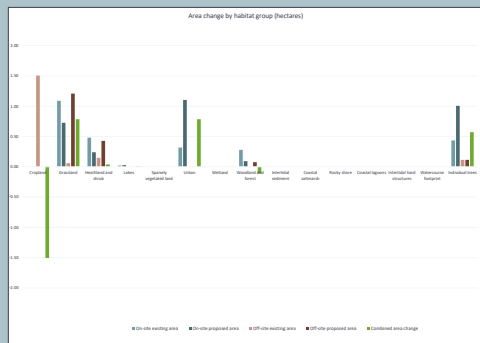
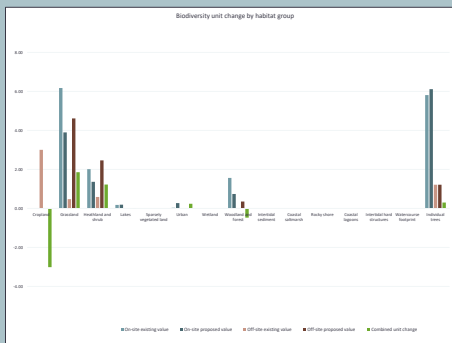
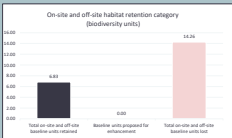
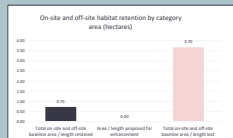
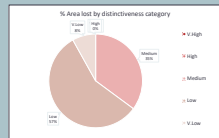
Area habitats

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OE-site change by broad habitat type					
Habitat group	Baseline		Post-development OE-site		OE-site change
	OE-site existing years	OE-site existing years	OE-site pre-project years	OE-site post-project years	
Grasslands					
Intensified agriculture	1,100	1,100	1,210	1,120	1,115
Openland	1,000	1,000	1,000	1,000	1,000
Forest and shrublands					
Intensified agriculture	1,000	1,000	1,000	1,000	1,000
Openland	1,000	1,000	1,000	1,000	1,000
Wetlands					
Intensified agriculture	1,000	1,000	1,000	1,000	1,000
Openland	1,000	1,000	1,000	1,000	1,000
Other					
Intensified agriculture	1,000	1,000	1,000	1,000	1,000
Openland	1,000	1,000	1,000	1,000	1,000

Combined on-site and off-site changes by broad habitat type						
Habitat group	Baseline		On-site and off-site post-construction		Combined changes	
	Combined existing value	Combined existing value	Combined post-construction value	Combined post-construction value	Combined change	Combined change
Grassland	1.80	3.80	1.60	3.60	-0.20	-0.20
Woodland	1.80	3.80	1.80	3.80	0.00	0.00
Woodland and grassland	0.80	2.80	0.80	2.80	0.00	0.00
Wetland	0.80	2.80	0.80	2.80	0.00	0.00
Wetland and grassland	0.80	2.80	0.80	2.80	0.00	0.00
Wetland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Grassland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Grassland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and woodland	0.80	2.80	0.80	2.80	0.00	0.00
Woodland and wetland	0.80	2.80	0.80	2.80		

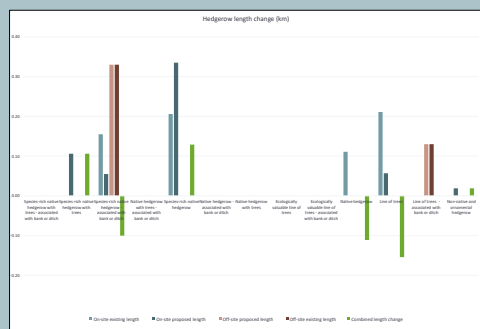
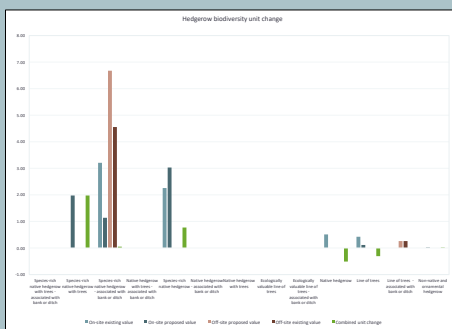
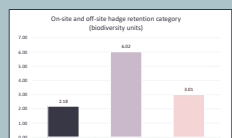
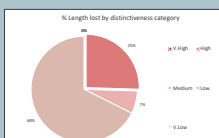
Combined area lost by distinctiveness band		
Category	Area lost (hectares)	Area lost (%)
V High	0	
High	0	
Medium	1,399	35
Low	8.1	57
V Low	0,899	8



Hedgerows and lines of trees

[illegible][illegible][illegible]

Combined length lost by distinctiveness band		
Category	Length lost (mm)	Length lost (%)
V.High	0	
High	0.1	26
Medium	0.067	7
Low	0.036	58
V.Low	0	



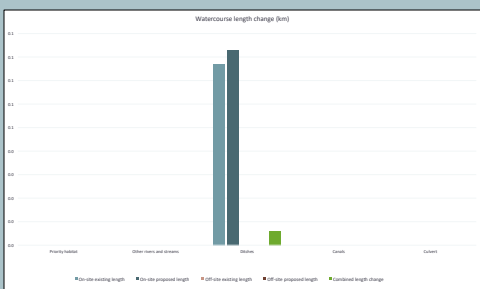
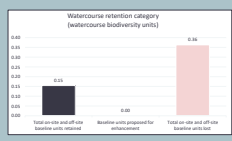
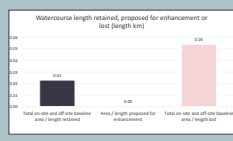
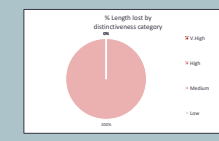
Watercourse

Wetcourse type	On-site change by wetcourse type		Post-development on site		On-site Change	
	On-site existing length	On-site existing value	On-site proposed length	On-site proposed value	On-site length change	On-site unit change
Flexible Surface	0.0	0.0	0.0	0.0	0.0	0.0
Other Areas and Features	0.0	0.0	0.0	0.0	0.0	0.0
Pavement	0.1	0.9	0.1	0.9	0.0	0.0
Gravel	0.0	0.0	0.0	0.0	0.0	0.0

Oil-site change by watercourse type						
Watercourse type	Baseline		Post development oil-site		Oil-site Change	
	Oil-site existing length	Oil-site recutting value	Oil-site proposed length	Oil-site proposed value	Oil-site length change	Oil-site unit change
Private highway	0.0	0.0	0.0	0.0	0.0	0.0
Other watercourse not on map	0.0	0.0	0.0	0.0	0.0	0.0
Drainage	0.0	0.0	0.0	0.0	0.0	0.0
Channel	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

Watercourse type	Combined on-site and off-site change by watercourse type					
	Baseline		Pre-development on-site		On-site change	
	Combined existing length	Combined existing value	Combined proposed length	Combined proposed value	Combined length change	Combined value change
Potential Inlet	0.0	0.0	0.0	0.0	0.0	0.0
Channel, cross and stream	0.0	0.0	0.0	0.0	0.0	0.0
Drainage	0.1	0.5	0.1	0.5	0.0	0.0
Channel	0.0	0.0	0.0	0.0	0.0	0.0
Channel	0.0	0.0	0.0	0.0	0.0	0.0

Combined length lost by distinctiveness band		
Category	Length lost (mm)	Length lost (%)
V High	0	
High	0	
Medium	0.004	100
Low	0	



Return to results menu	Trading Summary		
	Distinctiveness Group	Trading Rule	Trading Satisfied?
	Very High	Requires compensation likely to be required 1*	Yes ✓
	High	Same habitat required =	Yes ✓
	Medium	Same broad habitat or a higher distinctiveness habitat required 2.	Yes ✓
	Low	Same distinctiveness or better habitat required 2.	Yes ✓

Trading summary
Watercourses

Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change	Unit losses
Cropland - Lowland dry acid grassland	Cropland	0.00	0.00	0.00	
Cropland - Lowland meadow	Cropland	0.00	0.00	0.00	
Cropland - Upland hay meadow	Cropland	0.00	0.00	0.00	
Heathland and shrub - Mountain heaths and white scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Aquatic bird naturally fluctuating water bodies	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Colonisation grasslands	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Landscape pavement	Sparsely vegetated land	0.00	0.00	0.00	
Wetland - Pasture bog	Wetland	0.00	0.00	0.00	
Wetland - Development on wet peatlands (H1100)	Wetland	0.00	0.00	0.00	
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00	
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00	
Wetland - Organic valley mire (11001)	Wetland	0.00	0.00	0.00	
Wetland - Shrub heath and high peatlands	Wetland	0.00	0.00	0.00	
Wetland - Transition mire and raised bog (H1140)	Wetland	0.00	0.00	0.00	
Woodland and forest - Wood pasture and oak forest	Woodland and forest	0.00	0.00	0.00	
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral seaweed on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00

Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change	Losses not yet accounted for
Cropland - Traditional orchards	Cropland	0.00	0.00	0.00	
Cropland - Woodpasture wetland mosaic and CPOM	Cropland	0.00	0.00	0.00	
Cropland - Lowland calcareous meadow	Cropland	0.00	0.00	0.00	
Cropland - Tall herb communities (H1120)	Cropland	0.00	0.00	0.00	
Cropland - Upland calcareous grassland	Cropland	0.00	0.00	0.00	
Heathland and shrub - Lowland heathland	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Down with sea heathland (H1100)	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Upland heathland	Heathland and shrub	0.00	0.00	0.00	
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Mer lakes	Lakes	0.00	0.00	0.00	
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat boggy heath	Lakes	0.00	0.00	0.00	
Lakes - Temporary littoral pools and pools (H1130)	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Coastal and desert	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Coastal vegetated shrub	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Inland rock outcrops and sparse habitats	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Maritime cliff faces	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Open mosaic habitats on previously developed land	Urban	0.00	0.00	0.00	
Wetland - Heaths	Wetland	0.00	0.00	0.00	
Woodland and forest - Pollard	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland heath and rare woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Native rare woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Pollard woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland forest - submontane	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00	
Intertidal sediment - Littoral brackish water - Atlantic	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral brackish water - subatlantic	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral pebbles	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Unit losses: 0.00 for loss not satisfied	

Habitat group	Group	On-site unit change	Off-site unit change	Project wide unit change	Cumulative broad habitat change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	0.00
Cropland - Arable field margins pollen and nectar	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins scrubby	Cropland	0.00	0.00	0.00	
Cropland - Other natural grassland	Cropland	2.00	2.00	0.00	0.00
Heathland and shrub - Bare/stone scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Bracken scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Clough scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	1.00
Heathland and shrub - Willow scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Mixed scrub	Heathland and shrub	2.00	0.00	0.00	
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00
Sparsely vegetated land - Other littoral rock and corals	Sparsely vegetated land	0.00	0.00	0.00	0.00
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	0.00
Urban - Redwoven green roof	Urban	0.00	0.00	0.00	0.00
Woodland and forest - Broad leaf	Woodland and forest	0.00	0.00	0.00	0.00
Woodland and forest - Other broad leaf woodlands	Woodland and forest	0.00	0.00	0.00	0.00
Woodland and forest - Other broad leaf woodlands	Woodland and forest	0.00	0.00	0.00	0.00
Woodland and forest - Other broad leaf woodlands	Woodland and forest	0.00	0.00	0.00	0.00
Intertidal sediment - Littoral coarse sediments	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	0.00
Intertidal sediment - Artificial hard structures with integrated greenery of grey infrastructure (H1120)	Intertidal sediment	0.00	0.00	0.00	
		-3.70	4.90	2.17	

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	2.17
Medium Distinctiveness Broad Habitat Deficit to be offset by trading on	0.00
Higher Distinctiveness Surplus Units minus Medium Distinctiveness Broad Habitat Deficit	0.00
Cumulative surplus of 2.17	

Low Distinctiveness				
Habitat group	Group	On-site unit change	Off-site unit change	Project wide unit change
Cropland - Cereals/forage	Cropland	0.00	0.00	0.00
Cropland - Horticulture	Cropland	0.00	0.00	0.00
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00
Cropland - Pasture and other lowland	Cropland	0.00	0.00	0.00
Cropland - Upland grassland	Cropland	0.00	0.00	0.00
Cropland - Woodland	Cropland	0.00	0.00	0.00
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Unimproved lakes or ponds	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Bracken/heatherland	Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land - Tall fens	Sparsely vegetated land	0.00	0.00	0.00
Urban - Reservoirs	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
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Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Lowland grass	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
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Urban - Other green roof	Urban	0.00	0.00	0.00
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Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Active areas	Urban	0.00	0.00	0.00
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Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
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Urban - Active areas	Urban	0.00	0.00	0.00
Urban - Facade-fronted green wall	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Green roof	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0		

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Trading Summary		
Distinctiveness Group	Trading Rule	Trading Status?
Very High	Same habitat required =	Yes ✓
High	Like for like or better	Yes ✓
Medium	Same distinctiveness or better habitat required	Yes ✓
Low/Very Low	Same distinctiveness or better habitat required	Yes ✓

Trading
summary Area
Habitats

Trading
summary
Watercourses

Very High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Species rich native background with trees - associated with bank or ditch	0.00	0.00	0.00
	0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Net Distinctive Units for this wet upland	0.00

High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Species rich native background with trees	1.00	0.00	1.00
Species rich native background - associated with bank or ditch	-0.00	2.12	0.00
	0.00	0.00	0.00
	-0.12	2.12	2.00

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	2.00
High Distinctiveness Deduct to be offset for wetland use	0.00
Higher Distinctiveness design units minus any high distinctiveness deficit	0.00

Medium Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Species rich native background	0.70	0.00	0.70
Native background - associated with bank or ditch	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.70	0.00	0.70

Medium Distinctiveness Summary	
Units available from higher distinctiveness habitats	0.70
Medium Distinctiveness net change in units	0.70
Considerable availability of units	0.00

Low/Very Low Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Native background	-0.10	0.00	-0.10
Loss of trees	-0.10	0.00	-0.10
Loss of trees - associated with bank or ditch	0.00	0.00	0.00
Low native and coastal background	0.00	0.00	0.00
	-0.10	0.00	-0.10

Low Distinctiveness Summary	
Low Distinctiveness net change in units	-0.10
Considerable availability of units	0.00

Return to results menu

Trading summary Area Habitats

Trading summary hedgerows

Trading Summary		
Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required ✖	Yes ✓
High	Same habitat required =	Yes ✓
Medium	Same habitat required =	Yes ✓
Low	Better distinctiveness habitat required	Yes ✓

Very High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
Priority habitat	0.00	0.00	0.00
	0.00	0.00	0.00

Very High Distinctiveness Summary	
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00

High Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
Other rivers and streams	0.00	0.00	0.00
	0.00	0.00	0.00

High Distinctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Unit Deficit; Like for like not satisfied	0.00

Medium Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Ditches	0.02	0.00	0.02
Canals	0.00	0.00	0.00
	0.02	0.00	0.02

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	0.02
Unit Deficit; Like for like not satisfied	0.00

Low Distinctiveness			
Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Culvert	0.00	0.00	0.00
	0.00	0.00	0.00

Low Distinctiveness Summary	
Low Distinctiveness net change in units	0.00
Cumulative availability of units	0.02

Project Name: National Science Conservation Centre, Twycross Zoo

Map Reference:

A-1 On-Site Habitat Baseline

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Condense / Show Rows

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Area habitat summary	
Total Net Unit Change	0.17
Total Net % Change	1.06%
Trading Rules Satisfied	Yes ✓

Existing area habitats				Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Ecological baseline	
Ref	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic Significance	Strategic Significance multiplier		Total habitat units	
1	Grassland	Modified grassland	0.132	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.53	
2	Grassland	Modified grassland	0.286	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.57	
3	Urban	Developed land; sealed surface	0.01	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	
4	Heathland and shrub	Mixed scrub	0.458	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	1.83	
5	Urban	Developed land; sealed surface	0.29	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	
6	Woodland and forest	Other coniferous woodland	0.117	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.47	
7	Woodland and forest	Other woodland; broadleaved	0.113	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	0.90	
8	Woodland and forest	Other woodland; broadleaved	0.011	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	0.04	
9	Grassland	Other neutral grassland	0.62	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	4.96	
10	Grassland	Other neutral grassland	0.008	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	0.03	
11	Lakes	Ponds (non-priority habitat)	0.02	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (2)	0.18	
12	Urban	Introduced shrub	0.012	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.02	
13	Urban	Bare ground	0.006	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.01	
14	Grassland	Modified grassland	0.04	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.08	
15	Woodland and forest	Other woodland; broadleaved	0.038	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	0.15	
16	Individual trees	Urban tree	0.041	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (2)	0.38	
17	Individual trees	Urban tree	0.394	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (2)	5.44	
18	Urban	Modified grassland	0.003	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.01	
19	Heathland and shrub	Mixed scrub	0.023	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	0.18	
20													
21													
22													
23													
24													
Total habitat area			2.62										15.80
Site Area (Excluding area of Individual trees and Green walls)			2.19										

Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments		
Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost		User comments	Consenting body comments	GIS reference number
0	0	0.00	0.00	0.13	0.53		Amenity grassland		TN13
0	0	0.00	0.00	0.29	0.57		Amenity grassland		TN14 and 15
0	0	0.00	0.00	0.01	0.00		Building		TN23
0.088	0	0.35	0.00	0.37	1.48		Dense scrub, mixed		TN 6, 10, 42, and 43
0.001	0	0.00	0.00	0.29	0.00		Hardstanding		TN22
0	0	0.00	0.00	0.12	0.47		Conifer plantation woodland		TN5
0.093	0	0.74	0.00	0.02	0.16		Broad-leaved plantation woodland		TN1
0	0	0.00	0.00	0.01	0.04		Broad-leaved plantation woodland		TN24
0.03	0	0.24	0.00	0.59	4.72		Semi-improved neutral grassland		TN19
0	0	0.00	0.00	0.01	0.03		Poor semi-improved grassland		TN38
0	0	0.00	0.00	0.02	0.18		Pond		TN8
0	0	0.00	0.00	0.01	0.02		Ornamental planting		TN39
0	0	0.00	0.00	0.01	0.01		Bare ground		TN16
0	0	0.00	0.00	0.04	0.08		Other habitat -ground within the primate enclosure comprising bare ground, bark chippings, and common and introduced grass species		TN18
0	0	0.00	0.00	0.04	0.15		30 early-mature to mature, hybrid black poplars situated close together in the tufted deer enclosures forming a plantation woodland		TN17
0.029	0	0.27	0.00	0.01	0.11		10 moderate condition trees; all of small size, 6 of these to be retained (TN28 x 1, TN33 x 1, TN45 x 4) and 1 to be relocated (TN33 x 1). Most of the trees are deemed to be semi-mature to mature. Mature trees are formally identified within the LBAP.		TN28 (Sx3), TN33 (Sx2), TN45 (Sx4), and TN48 (Sx1)
0.248	0	3.42	0.00	0.15	2.01		15 good condition trees; 1 of large size, 8 of medium size, and 6 of small size. 11 of these are to be retained including 1 in good condition and of large size (TN32); 4 in good condition and of med size (TN27, TN36 and TN46 x 2); and 6 in good condition and of small size (TN26, TN29, TN30, TN44 x 3). Most of the trees are deemed to be semi-mature to mature. Mature trees are formally identified within the LBAP.		TN26 (Sx1), TN27 (Mx1), TN29 (Sx1), TN30 (Sx1), TN31 (Mx1), TN32 (Lx1), TN35 (Mx1), TN36 (Mx1), TN44 (Sx3), TN46 (Mx2) and TN47 (Mx2)
0	0	0.00	0.00	0.00	0.01		No access but anticipated to be similar to TN16		TN40
0	0	0.00	0.00	0.02	0.18		Dense scrub, mixed		TN37
0.49	0.00	5.03	0.00	2.13	10.77				

Total area lost (excluding area of Individual trees and Green walls)	1.98
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M² to hectares conversion tool:

Select a unit

Hectares

M²

Condense / Show Columns	Condense / Show Rows
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[illegible]

Project Name: National Science Conservation Centre, Twycross Zoo		Map Reference:	
D-2 Off-Site Habitat Creation			
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Area habitat summary	
Total Net Unit Change	0.17
Total Net % Change	1.08%
Trading Rules Satisfied	Yes ✓
Area Check (excluding individual trees and green walls)	Area Acceptable ✓

Post development/ post intervention habitats																										
Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance		Temporal risk multiplier						Difficulty risk multipliers				Spatial risk multiplier		Habitat units delivered	Comments		GIS reference number	On-site reference	
							Strategic significance	Strategic significance multiplier	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Spatial risk category	Spatial risk multiplier		User comments	Consenting body comments			
Woodland and forest	Other woodland broadleaved	0.076	Medium	4	Moderate	2	Area/compensation not in local strategy/no local strategy	Low Strategic Significance	1	15	0	0	Standard time to target condition applied	15	0.986	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	0.36				
Heathland and shrub	Mixed scrub	0.28	Medium	4	Moderate	2	Area/compensation not in local strategy/no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	1.97				
Grassland	Other neutral grassland	0.48	Medium	4	Moderate	2	Area/compensation not in local strategy/no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	3.21				
Grassland	Modified grassland	0.728	Low	2	Poor	1	Area/compensation not in local strategy/no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.966	Low	Standard difficulty applied	Low	1	Compensation inside LPA boundary or NCA of impact site	1	1.41				

Project Name: National Science Conservation Centre, Twycross Zoo

Map Reference: B-1 On-Site Hedge Baseline

Condense / Show Columns

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Instructions

Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.19%
Trading Rules Satisfied	Yes ✓

Baseline ref	Existing hedgerow habitats			Distinctiveness	Condition	Strategic significance	Required Action to Meet Trading Rules	Ecological baseline
	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Condition	Strategic significance		Total hedgerow units
1	TN2	Line of trees	0.154	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	0.31
2	TN3	Line of trees	0.057	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	0.11
3	TN9	Native hedgerow	0.111	Low	Moderate	Formally identified in local strategy	Same distinctiveness band or better	0.51
4	TN4	Species-rich native hedgerow	0.073	Medium	Moderate	Formally identified in local strategy	Same distinctiveness band or better	0.67
5	TN21	Species-rich native hedgerow	0.027	Medium	Poor	Formally identified in local strategy	Same distinctiveness band or better	0.12
6	TN11	Species-rich native hedgerow - associated with bank or ditch	0.155	High	Good	Formally identified in local strategy	Like for like or better	3.21
7	TN12	Species-rich native hedgerow	0.106	Medium	Good	Formally identified in local strategy	Same distinctiveness band or better	1.46
8								
9								
10								
			0.68					8.40

Retention category biodiversity value						Comments		GIS reference number
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Consenting body comments	
0	0	0.00	0.00	0.15	0.31			TN2
0.057	0	0.11	0.00	0.00	0.00			TN3
0	0	0.00	0.00	0.11	0.51			TN9
0.073	0	0.67	0.00	0.00	0.00			TN4
0	0	0.00	0.00	0.03	0.12			TN21
0.055	0	1.14	0.00	0.10	2.07			TN11
0	0.106	0.00	1.46	0.00	0.00			TN12
0.19	0.11	1.92	1.46	0.39	3.01			

📄 Name: National Science Conservation Centre, Twycross Zoo

📍 Map Refer

B-2 On-Site Hedge Creation

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Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.19%
Trading Rules Satisfied	Yes ✓

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments		
Baseline ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of crection	Applied difficulty multiplier	Final difficulty of crection	Difficulty multiplier applied		User comments	Consenting body comments	GIS reference number
1		Non-native and ornamental hedgerow	0.019	V.Low	1	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	0.02	Proposed green screen (no species mix available at the time of writing, but anticipated to be species-poor and non-native)		
2		Species-rich native hedgerow	0.262	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	12	0	0	Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	2.36	Proposed native hedgerow with 8 species		
3																								
4																								
5																								
6																								
			0.28																			2.36		

pe: National Science Conservation Centre, Twycross Zoo Map

E-1 Off-Site Hedge Baseline

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Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	31.18%
Trading Rules Satisfied	Yes ✓

Existing hedgerow habitats				Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Spatial risk multiplier		Ecological baseline	Retention category biodiversity value						Comments		GIS reference number	Off-site reference	
Baseline ref	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance		Strategic significance		Strategic position multiplier	Spatial risk category		Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments			Consenting body comments
1	TN1	Species-rich native hedgerow - associated with bank or ditch	0.33	High	6	Moderate	2	Formally identified in local strategy		High strategic significance	1.15	Like for like or better	Compensation inside LPA boundary or NCA of impact site		4.55	0	0.33	0	4.554	0.00	0.00			TN1	
2	TN4	Line of trees - associated with bank or ditch	0.13	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy		Low Strategic Significance	1	Same distinctiveness band or better	Compensation inside LPA boundary or NCA of impact site		0.26	0.13	0	0.26	0	0.00	0.00			TN4	
3																									
4																									
5																									
6																									
7																									
			0.46												4.81	0.13	0.33	0.26	4.55	0.00	0.00				

Project Name: National Science Conservation Centre, Twycross Zoo

Map Reference

E-2 Off-Site Hedge Creation

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Hedges row summary

Total Net Unit Change

2.00

Total Net % Change

31.18%

Trading Rules Satisfied

Yes x

Proposed habitats		Distinctiveness		Condition		Strategic significance			Spatial risk multiplier	Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments		GIS reference number	Off-site reference				
Baseline ref	New hedge number	Habitat type	Length (m)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Spatial risk category	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier		Final difficulty of creation	Difficulty multiplier applied			User comments	Consenting body comments		
1																												
2																												
3																												
4																												
5																												
			0.00																					0.00				

Project Name: National Science Conservation
 E-3 Off-Site Hedge Enhancement

Hedgerow summary	
Total Net Unit Change	2.00
Total Net % Change	51.18%
Tracking Error Reduced	Yes ✓

[illegible]

Project Name: National Science Conservation Centre,
C-1 On-Site WaterC' Baseline

Condense / Show Columns

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Watercourse summary	
Total Net Unit Change	0.08
Total Net % Change	3.83%
Trading Rules Satisfied	Yes ✓

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Ecological baseline
Baseline ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Total watercourse units
1	Ditches	0.077	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	No Encroachment	1	Major/Minor	0.84	Same habitat required =	0.52
2															
3															
4															
5															
6															
7															
		0.08													

Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments		GIS reference number
Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost		User Comments	Consenting body comments	
0.023	0	0.15	0.00	0.05	0.36		Part of wet ditch to be lost for the proposed orangutan enclosure, rest to be retained as is		TN7
0.02	0.00	0.15	0.00	0.05	0.36				

Project Name: National Science Conservation Centre, Lwydross Zoo

Map Reference:

C-2 On-Site WaterC^o Creation

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Watercourse summary	
Total Net Unit Change	0.08
Total Net % Change	0.99%
Trading Rules Satisfied	Yes ✓

Proposed habitats			Distinctiveness		Condition		Strategic significance			Temporal multiplier					Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Watercourse units delivered	Comments		GIS reference number
Baseline ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks		Multiplier	User comments	
1	Ditches	0.06	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0	0	Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	Minor	0.8	Minor/ Minor	0.96	0.38		
2																										
3																										
4																										
5																										
6																										
		0.06																				0.38				

Broad Habitats	Overlapped Broad Habitat Label
Cropland	Cropland
Grassland	Grassland
Wetland and shrub	Wetland_and_shrub
Lake	Lake
Sparsely vegetated land	Sparsely_vegetated_land
Barren land	Barren land
Wetland and bare	Wetland_and_bare
Barren land	Barren land
Barley alone	Barley_alone
Crooked channels and bare land	Crooked_channels and bare land
Intertidal flat or wetland	Intertidal_flat_or_wetland
Wetland or bog/peat	Wetland_or_bog/peat
Intertidal, bare	Intertidal, bare

Habitat/Groupings		Shrub	Herbaceous	Seedling Status	All Habitats																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
					Shrub only 10-15m	Shrub only 15-20m	Shrub only 20-25m	Shrub only 25-30m	Shrub only 30-35m	Shrub only 35-40m	Shrub only 40-45m	Shrub only 45-50m	Shrub only 50-55m	Shrub only 55-60m	Shrub only 60-65m	Shrub only 65-70m	Shrub only 70-75m	Shrub only 75-80m	Shrub only 80-85m	Shrub only 85-90m	Shrub only 90-95m	Shrub only 95-100m	Shrub only 100-105m	Shrub only 105-110m	Shrub only 110-115m	Shrub only 115-120m	Shrub only 120-125m	Shrub only 125-130m	Shrub only 130-135m	Shrub only 135-140m	Shrub only 140-145m	Shrub only 145-150m	Shrub only 150-155m	Shrub only 155-160m	Shrub only 160-165m	Shrub only 165-170m	Shrub only 170-175m	Shrub only 175-180m	Shrub only 180-185m	Shrub only 185-190m	Shrub only 190-195m	Shrub only 195-200m	Shrub only 200-205m	Shrub only 205-210m	Shrub only 210-215m	Shrub only 215-220m	Shrub only 220-225m	Shrub only 225-230m	Shrub only 230-235m	Shrub only 235-240m	Shrub only 240-245m	Shrub only 245-250m	Shrub only 250-255m	Shrub only 255-260m	Shrub only 260-265m	Shrub only 265-270m	Shrub only 270-275m	Shrub only 275-280m	Shrub only 280-285m	Shrub only 285-290m	Shrub only 290-295m	Shrub only 295-300m	Shrub only 300-305m	Shrub only 305-310m	Shrub only 310-315m	Shrub only 315-320m	Shrub only 320-325m	Shrub only 325-330m	Shrub only 330-335m	Shrub only 335-340m	Shrub only 340-345m	Shrub only 345-350m	Shrub only 350-355m	Shrub only 355-360m	Shrub only 360-365m	Shrub only 365-370m	Shrub only 370-375m	Shrub only 375-380m	Shrub only 380-385m	Shrub only 385-390m	Shrub only 390-395m	Shrub only 395-400m	Shrub only 400-405m	Shrub only 405-410m	Shrub only 410-415m	Shrub only 415-420m	Shrub only 420-425m	Shrub only 425-430m	Shrub only 430-435m	Shrub only 435-440m	Shrub only 440-445m	Shrub only 445-450m	Shrub only 450-455m	Shrub only 455-460m	Shrub only 460-465m	Shrub only 465-470m	Shrub only 470-475m	Shrub only 475-480m	Shrub only 480-485m	Shrub only 485-490m	Shrub only 490-495m	Shrub only 495-500m	Shrub only 500-505m	Shrub only 505-510m	Shrub only 510-515m	Shrub only 515-520m	Shrub only 520-525m	Shrub only 525-530m	Shrub only 530-535m	Shrub only 535-540m	Shrub only 540-545m	Shrub only 545-550m	Shrub only 550-555m	Shrub only 555-560m	Shrub only 560-565m	Shrub only 565-570m	Shrub only 570-575m	Shrub only 575-580m	Shrub only 580-585m	Shrub only 585-590m	Shrub only 590-595m	Shrub only 595-600m	Shrub only 600-605m	Shrub only 605-610m	Shrub only 610-615m	Shrub only 615-620m	Shrub only 620-625m	Shrub only 625-630m	Shrub only 630-635m	Shrub only 635-640m	Shrub only 640-645m	Shrub only 645-650m	Shrub only 650-655m	Shrub only 655-660m	Shrub only 660-665m	Shrub only 665-670m	Shrub only 670-675m	Shrub only 675-680m	Shrub only 680-685m	Shrub only 685-690m	Shrub only 690-695m	Shrub only 695-700m	Shrub only 700-705m	Shrub only 705-710m	Shrub only 710-715m	Shrub only 715-720m	Shrub only 720-725m	Shrub only 725-730m	Shrub only 730-735m	Shrub only 735-740m	Shrub only 740-745m	Shrub only 745-750m	Shrub only 750-755m	Shrub only 755-760m	Shrub only 760-765m	Shrub only 765-770m	Shrub only 770-775m	Shrub only 775-780m	Shrub only 780-785m	Shrub only 785-790m	Shrub only 790-795m	Shrub only 795-800m	Shrub only 800-805m	Shrub only 805-810m	Shrub only 810-815m	Shrub only 815-820m	Shrub only 820-825m	Shrub only 825-830m	Shrub only 830-835m	Shrub only 835-840m	Shrub only 840-845m	Shrub only 845-850m	Shrub only 850-855m	Shrub only 855-860m	Shrub only 860-865m	Shrub only 865-870m	Shrub only 870-875m	Shrub only 875-880m	Shrub only 880-885m	Shrub only 885-890m	Shrub only 890-895m	Shrub only 895-900m	Shrub only 900-905m	Shrub only 905-910m	Shrub only 910-915m	Shrub only 915-920m	Shrub only 920-925m	Shrub only 925-930m	Shrub only 930-935m	Shrub only 935-940m	Shrub only 940-945m	Shrub only 945-950m	Shrub only 950-955m	Shrub only 955-960m	Shrub only 960-965m	Shrub only 965-970m	Shrub only 970-975m	Shrub only 975-980m	Shrub only 980-985m	Shrub only 985-990m	Shrub only 990-995m	Shrub only 995-1000m	Shrub only 1000-1005m	Shrub only 1005-1010m	Shrub only 1010-1015m	Shrub only 1015-1020m	Shrub only 1020-1025m	Shrub only 1025-1030m	Shrub only 1030-1035m	Shrub only 1035-1040m	Shrub only 1040-1045m	Shrub only 1045-1050m	Shrub only 1050-1055m	Shrub only 1055-1060m	Shrub only 1060-1065m	Shrub only 1065-1070m	Shrub only 1070-1075m	Shrub only 1075-1080m	Shrub only 1080-1085m	Shrub only 1085-1090m	Shrub only 1090-1095m	Shrub only 1095-1100m	Shrub only 1100-1105m	Shrub only 1105-1110m	Shrub only 1110-1115m	Shrub only 1115-1120m	Shrub only 1120-1125m	Shrub only 1125-1130m	Shrub only 1130-1135m	Shrub only 1135-1140m	Shrub only 1140-1145m	Shrub only 1145-1150m	Shrub only 1150-1155m	Shrub only 1155-1160m	Shrub only 1160-1165m	Shrub only 1165-1170m	Shrub only 1170-1175m	Shrub only 1175-1180m	Shrub only 1180-1185m	Shrub only 1185-1190m	Shrub only 1190-1195m	Shrub only 1195-1200m	Shrub only 1200-1205m	Shrub only 1205-1210m	Shrub only 1210-1215m	Shrub only 1215-1220m	Shrub only 1220-1225m	Shrub only 1225-1230m	Shrub only 1230-1235m	Shrub only 1235-1240m	Shrub only 1240-1245m	Shrub only 1245-1250m	Shrub only 1250-1255m	Shrub only 1255-1260m	Shrub only 1260-1265m	Shrub only 1265-1270m	Shrub only 1270-1275m	Shrub only 1275-1280m	Shrub only 1280-1285m	Shrub only 1285-1290m	Shrub only 1290-1295m	Shrub only 1295-1300m	Shrub only 1300-1305m	Shrub only 1305-1310m	Shrub only 1310-1315m	Shrub only 1315-1320m	Shrub only 1320-1325m	Shrub only 1325-1330m	Shrub only 1330-1335m	Shrub only 1335-1340m	Shrub only 1340-1345m	Shrub only 1345-1350m	Shrub only 1350-1355m	Shrub only 1355-1360m	Shrub only 1360-1365m	Shrub only 1365-1370m	Shrub only 1370-1375m	Shrub only 1375-1380m	Shrub only 1380-1385m	Shrub only 1385-1390m	Shrub only 1390-1395m	Shrub only 1395-1400m	Shrub only 1400-1405m	Shrub only 1405-1410m	Shrub only 1410-1415m	Shrub only 1415-1420m	Shrub only 1420-1425m	Shrub only 1425-1430m	Shrub only 1430-1435m	Shrub only 1435-1440m	Shrub only 1440-1445m	Shrub only 1445-1450m	Shrub only 1450-1455m	Shrub only 1455-1460m	Shrub only 1460-1465m	Shrub only 1465-1470m	Shrub only 1470-1475m	Shrub only 1475-1480m	Shrub only 1480-1485m	Shrub only 1485-1490m	Shrub only 1490-1495m	Shrub only 1495-1500m	Shrub only 1500-1505m	Shrub only 1505-1510m	Shrub only 1510-1515m	Shrub only 1515-1520m	Shrub only 1520-1525m	Shrub only 1525-1530m	Shrub only 1530-1535m	Shrub only 1535-1540m	Shrub only 1540-1545m	Shrub only 1545-1550m	Shrub only 1550-1555m	Shrub only 1555-1560m	Shrub only 1560-1565m	Shrub only 1565-1570m	Shrub only 1570-1575m	Shrub only 1575-1580m	Shrub only 1580-1585m	Shrub only 1585-1590m	Shrub only 1590-1595m	Shrub only 1595-1600m	Shrub only 1600-1605m	Shrub only 1605-1610m	Shrub only 1610-1615m	Shrub only 1615-1620m	Shrub only 1620-1625m	Shrub only 1625-1630m	Shrub only 1630-1635m	Shrub only 1635-1640m	Shrub only 1640-1645m	Shrub only 1645-1650m	Shrub only 1650-1655m	Shrub only 1655-1660m	Shrub only 1660-1665m	Shrub only 1665-1670m	Shrub only 1670-1675m	Shrub only 1675-1680m	Shrub only 1680-1685m	Shrub only 1685-1690m	Shrub only 1690-1695m	Shrub only 1695-1700m	Shrub only 1700-1705m	Shrub only 1705-1710m	Shrub only 1710-1715m	Shrub only 1715-1720m	Shrub only 1720-1725m	Shrub only 1725-1730m	Shrub only 1730-1735m	Shrub only 1735-1740m	Shrub only 1740-1745m	Shrub only 1745-1750m	Shrub only 1750-1755m	Shrub only 1755-1760m	Shrub only 1760-1765m	Shrub only 1765-1770m	Shrub only 1770-1775m	Shrub only 1775-1780m	Shrub only 1780-1785m	Shrub only 1785-1790m	Shrub only 1790-1795m	Shrub only 1795-1800m	Shrub only 1800-1805m	Shrub only 1805-1810m	Shrub only 1810-1815m	Shrub only 1815-1820m	Shrub only 1820-1825m	Shrub only 1825-1830m	Shrub only 1830-1835m	Shrub only 1835-1840m	Shrub only 1840-1845m	Shrub only 1845-1850m	Shrub only 1850-1855m	Shrub only 1855-1860m	Shrub only 1860-1865m	Shrub only 1865-1870m	Shrub only 1870-1875m	Shrub only 1875-1880m	Shrub only 1880-1885m	Shrub only 1885-1890m	Shrub only 1890-1895m	Shrub only 1895-1900m	Shrub only 1900-1905m	Shrub only 1905-1910m	Shrub only 1910-1915m	Shrub only 1915-1920m	Shrub only 1920-1925m	Shrub only 1925-1930m	Shrub only 1930-1935m	Shrub only 1935-1940m	Shrub only 1940-1945m	Shrub only 1945-1950m	Shrub only 1950-1955m	Shrub only 1955-1960m	Shrub only 1960-1965m	Shrub only 1965-1970m	Shrub only 1970-1975m	Shrub only 1975-1980m	Shrub only 1980-1985m	Shrub only 1985-1990m	Shrub only 1990-1995m	Shrub only 1995-2000m	Shrub only 2000-2005m	Shrub only 2005-2010m	Shrub only 2010-2015m	Shrub only 2015-2020m	Shrub only 2020-2025m	Shrub only 2025-2030m	Shrub only 2030-2035m	Shrub only 2035-2040m	Shrub only 2040-2045m	Shrub only 2045-2050m	Shrub only 2050-2055m	Shrub only 2055-2060m	Shrub only 2060-2065m	Shrub only 2065-2070m	Shrub only 2070-2075m	Shrub only 2075-2080m	Shrub only 2080-2085m	Shrub only 2085-2090m	Shrub only 2090-2095m	Shrub only 2095-2100m	Shrub only 2100-2105m	Shrub only 2105-2110m	Shrub only 2110-2115m	Shrub only 2115-2120m	Shrub only 2120-2125m	Shrub only 2125-2130m	Shrub only 2130-2135m	Shrub only 2135-2140m	Shrub only 2140-2145m	Shrub only 2145-2150m	Shrub only 2150-2155m	Shrub only 2155-2160m	Shrub only 2160-2165m	Shrub only 2165-2170m	Shrub only 2170-2175m	Shrub only 2175-2180m	Shrub only 2180-2185m	Shrub only 2185-2190m	Shrub only 2190-2195m	Shrub only 2195-2200m	Shrub only 2200-2205m	Shrub only 2205-2210m	Shrub only 2210-2215m	Shrub only 2215-2220m	Shrub only 2220-2225m	Shrub only 2225-2230m	Shrub only 2230-2235m	Shrub only 2235-2240m	Shrub only 2240-2245m	Shrub only 2245-2250m	Shrub only 2250-2255m	Shrub only 2255-2260m	Shrub only 2260-2265m	Shrub only 2265-2270m	Shrub only 2270-2275m	Shrub only 2275-2280m	Shrub only 2280-2285m	Shrub only 2285-2290m	Shrub only 2290-2295m	Shrub only 2295-2300m	Shrub only 2300-2305m	Shrub only 2305-2310m	Shrub only 2310-2315m	Shrub only 2315-2320m	Shrub only 2320-2325m	Shrub only 2325-2330m	Shrub only 2330-2335m	Shrub only 2335-2340m	Shrub only 2340-2345m	Shrub only 2345-2350m	Shrub only 2350-2355m	Shrub only 2355-2360m	Shrub only 2360-2365m	Shrub only 2365-2370m	Shrub only 2370-2375m	Shrub only 2375-2380m	Shrub only 2380-2385m	Shrub only 2385-2390m	Shrub only 2390-2395m	Shrub only 2395-2400m	Shrub only 2400-2405m	Shrub only 2405-2410m	Shrub only 2410-2415m	Shrub only 2415-2420m	Shrub only 2420-2425m	Shrub only 2425-2430m	Shrub only 2430-2435m	Shrub only 2435-2440m	Shrub only 2440-2445m	Shrub only 2445-2450m	Shrub only 2450-2455m	Shrub only 2455-2460m	Shrub only 2460-2465m	Shrub only 2465-2470m	Shrub only 2470-2475m	Shrub only 2475-2480m	Shrub only 2480-2485m	Shrub only 2485-2490m	Shrub only 2490-2495m	Shrub only 2495-2500m	Shrub only 2500-2505m	Shrub only 2505-2510m	Shrub only 2510-2515m	Shrub only 2515-2520m	Shrub only 2520-2525m	Shrub only 2525-2530m	Shrub only 2530-2535m	Shrub only 2535-2540m	Shrub only 2540-2545m	Shrub only 2545-2550m	Shrub only 2550-2555m	Shrub only 2555-2560m	Shrub only 2560-2565m	Shrub only 2565-2570m	Shrub only 2570-2575m	Shrub only 2575-2580m	Shrub only 2580-2585m	Shrub only 2585-2590m	Shrub only 2590-2595m	Shrub only 2595-2600m	Shrub only 2600-2605m	Shrub only 2605-2610m	Shrub only 2610-2615m	Shrub only 2615-2620m	Shrub only 2620-2625m	Shrub only 2625-2630m	Shrub only 2630-2635m	Shrub only 2635-2640m	Shrub only 2640-2645m	Shrub only 2645-2650m	Shrub only 2650-2655m	Shrub only 2655-2660m	Shrub only 2660-2665m	Shrub only 2665-2670m	Shrub only 2670-2675m	Shrub only 2675-2680m	Shrub only 2680-2685m	Shrub only 2685-2690m	Shrub only 2690-2695m	Shrub only 2695-2700m	Shrub only 2700-2705m	Shrub only 2705-2710m	Shrub only 2710-2715m	Shrub only 2715-2720m	Shrub only 2720-2725m	Shrub only 2725-2730m	Shrub only 2730-2735m	Shrub only 2735-2740m	Shrub only 2740-2745m	Shrub only 2745-2750m	Shrub only 2750-2755m	Shrub only 2755-2760m	Shrub only 2760-2765m	Shrub only 2765-2770m	Shrub only 2770-2775m	Shrub only 2775-2780m	Shrub only 2780-2785m	Shrub only 2785-2790m	Shrub only 2790-2795m	Shrub only 2795-2800m	Shrub only 2800-2805m	Shrub only 2805-2810m	Shrub only 2810-2815m	Shrub only 2815-2820m	Shrub only 2820-2825m	Shrub only 2825-2830m	Shrub only 2830-2835m	Shrub only 2835-2840m	Shrub only 2840-2845m	Shrub only 2845-2850m	Shrub only 2850-2855m	Shrub only 2855-2860m	Shrub only 2860-2865m	Shrub only 2865-2870m	Shrub only 2870-2875m	Shrub only 2875-2880m	Shrub only 2880-2885m	Shrub only 2885-2890m	Shrub only 2890-2895m	Shrub only 2895-2900m	Shrub only 2900-2905m	Shrub only 2905-2910m	Shrub only 2910-2915m	Shrub only 2915-2920m	Shrub only 2920-2925m	Shrub only 2925-2930m	Shrub only 2930-2935m	Shrub only 2935-2940m	Shrub only 2940-2945m	Shrub only 2945-2950m	Shrub only 2950-2955m	Shrub only 2955-2960m	Shrub only 2960-2965m	Shrub only 2965-2970m	Shrub only 2970-2975m	Shrub only 2975-2980m	Shrub only 2980-2985m	Shrub only 2985-2990m	Shrub only 2990-2995m	Shrub only 2995-3000m	Shrub only 3000-3005m	Shrub only 3005-3010m	Shrub only 3010-3015m	Shrub only 3015-3020m	Shrub only 3020-3025m	Shrub only 3025-3030m	Shrub only 3030-3035m	Shrub only 3035-3040m	Shrub only 3040-3045m	Shrub only 3045-3050m	Shrub only 3050-3055m	Shrub only 3055-3060m	Shrub only 3060-3065m	Shrub only 3065-3070m	Shrub only 3070-3075m	Shrub only 3075-3080m	Shrub only 3080-3085m	Shrub only 3085-3090m	Shrub only 3090-3095m	Shrub only 3095-3100m	Shrub only 3100-3105m	Shrub only 3105-3110m	Shrub only 3110-3115m	Shrub only 3115-3120m	Shrub only 3120-3125m	Shrub only 3125-3130m	Shrub only 3130-3135m	Shrub only 3135-3140m	Shrub only 3140-3145m	Shrub only 3145-3150m	Shrub only 3150-3155m	Shrub only 3155-3160m	Shrub only 3160-3165m	Shrub only 3165-3170m	Shrub only 3170-3175m	Shrub only 3175-3180m	Shrub only 3180-3185m	Shrub only 3185-3190m	Shrub only 3190-3195m</

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⊕ This tool is intended to be used for historic data. Any suggested translation between a phase 1 habitat and metric habitat should not be considered a rule - there may be circumstances where a more appropriate metric habitat may be chosen when ecological expertise is applied.

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