

Technical Briefing Note

Ref: 1005971 BIA vf5

Project: Land North East of M42 Junction 10

Technical Briefing Note: Biodiversity Impact Assessment

Date: February 2023

1. Background

1.1. Aspect Ecology is advising Hodgetts Estates in respect of ecological issues relating to land northeast of M42 junction 10. An outline planning application is being submitted for industrial development of the site.

1.2. To inform the application, Aspect Ecology has undertaken a biodiversity impact assessment to determine the level of biodiversity net gain that could be achieved under the scheme. In addition, following submission of the application (ref: PAP/2021/0663) and receipt of consultation comments a number of minor amendments to the proposals and associated submitted information have been made in order to address officer comments and accordingly, the biodiversity impact assessment has been updated to reflect the updated position. This note sets out the results of this (updated) biodiversity impact assessment in order to inform the application.

2. Methodology

- 2.1. To quantify the level of biodiversity net gain that can be delivered under the proposed development, the change in biodiversity value resulting from the scheme has been calculated using the Biodiversity Impact Assessment calculator tool (in MS Excel spreadsheet format) in use by Warwickshire County Council (the Council's preferred metric) as implemented across the subregion through the Coventry, Solihull and Warwickshire Sub Regional Green Infrastructure.
- 2.2. To establish the habitat baseline, broad habitat areas have been identified based on the survey work undertaken at the site (see Appendix 5971-01/BIA1), with habitat condition and connectivity scores assigned based on the information set out in the associated Guidance Document¹, previous discussions with WCC officers and professional judgement. The 'biodiversity impact' of the proposed development has been calculated using the most recent version (v19.1) of the spreadsheet tool, based on the current proposed layout.
- 2.3. As the application is in outline, a detailed proposals plan is not available to assess in full the post-development habitat creation and enhancement. Accordingly, the Parameters Plan and Illustrative Landscape Design Plan (see Appendix 5971-01/BIA2) have been used to identify where areas of habitat creation and enhancement will be provided, with specific areas of individual land treatments provided by the landscape architects based on these drawings. As

¹ Warwickshire County Council (February 2018) *Guide to Warwickshire, Coventry and Solihull Biodiversity Offsetting Biodiversity Impact Assessment Calculator v19.0 for Ecological Consultants*



can be seen on the parameters plan and illustrative landscape design plan, the proposals include significant areas of open space, planting, landscaping and drainage features, together with an internal access road. Indicative figures have been used for these habitat areas, and these will be refined at the detailed design and reserved matters stages, once detailed landscaping plans are available for the site. In addition, a number of additional enhancement measures are proposed within the wider offsite areas under the applicant's control located east of the site boundary, as identified within the illustrative landscape design plan for the site (see Appendix 5971-01/BIA2), which have therefore also been included within the assessment.

2.4. Calculations have also taken linear features (namely hedgerows) into account, with measurements of the existing hedgerow lengths compared to retained and proposed new hedgerow lengths.

3. Results

3.1. The results of the Biodiversity Impact (Net Gain) Assessment are detailed below and included as printouts at Appendix 5971-01/BIA3 for ease of reference, whilst the completed spreadsheet tool is attached in the original MS Excel (.xlsm) format for completeness.

Habitat Areas

- 3.2. As set out within the attached BIA tool, based on the parameters plan, illustrative landscape design plans and associated information and assumptions set out, the calculator tool shows an increase (as calculated) in biodiversity value 'score' (gain) of 16.99 units.
- 3.3. As such, in line with the information provided to inform the outline planning permission, based on the consideration with the standard BIA metric tool and associated assumptions and limitations, it is considered that a minimum 'net gain' in biodiversity value (as calculated using the biodiversity offsetting metric) of approximately 26.5% (based on the existing site 'value') would be achievable under the proposed parameters and no further compensation measures or offset provision would therefore appear to be required at this stage. Indeed, it is proposed that detailed design of the soft landscaping proposals at the appropriate stage focus on maximising biodiversity value, including habitat design, management and individual faunal benefits through additional faunal enhancement measures in line with the forthcoming Design Guide for the site resulting in substantial opportunities for environmental enhancement (particularly noting the existing, largely featureless arable nature of the site).

Linear Features

- 3.4. Based on the parameters plan, it is likely that the Proposal will result in the necessary loss of approximately 40m of hedgerow, in order to facilitate the permitted development, including in relation to relevant highways visibility splays and associated considerations. However, considerable areas of new planting are proposed, such that it is anticipated that additional lengths of new connected hedgerow habitats within the site will provide suitable compensation in line with offsetting guidance (and not taking into account improved management of existing hedgerows within the new open space areas). Indeed, as part of the proposed offsite enhancement measures, considerable lengths of new native hedgerow are included within the proposed illustrative landscape design plan for the site (see Appendix 5971-01/BIA2), which have therefore been incorporated within the current calculations.
- 3.5. Linear habitat calculations are set out in the linear impact assessment worksheet within the BIA spreadsheet tool, based on the above considerations. Based on the calculated hedgerow losses

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and associated proposed new hedgerow planting, the proposals would appear to result in a calculated net gain of 19.83 hedge biodiversity impact units (representing a gain of approximately 298% based on the existing calculated hedgerow value at the site).

4. Overall BIA Consideration

- Overall, on the basis of the above consideration in relation to the WCC offsetting metric, including local guidance, it can be concluded that, subject to appropriate detailed landscape design and planting information, along with the provision of the measures set out (including offsite enhancement measures within the adjacent land under the control of the applicant, as detailed at the proposed illustrative landscape design plan), a substantial calculated increase in in biodiversity units within the site would be achievable under the proposed parameters, with an indicative 'score' of approximately +16.99 'habitat biodiversity units' (representing an identified gain of approximately 26.5%) and +19.83 'linear biodiversity units' (representing an identified gain of approximately 298%) identified based on the information and assumptions set out. The vast majority of habitats at the site that are to be affected are of extremely low quality (intensive arable land), the loss of which to the proposals (as previously set out) would be of no wider ecological significance. Indeed the detailed design of the substantial landscaped areas in accordance with the proposed Design Guide, along with the proposed additional enhancement measures within the adjacent offsite land under the control of the applicant would result in significant environmental enhancement, including specific benefits for a range of faunal species and benefits to wildlife in the long term.
- 4.2. In addition, in line with the information set out elsewhere, a number of faunal enhancements are proposed under the scheme, including provision of bird and bat boxes, insect hotels, and refugia/hibernacula, along with wildlife interpretation boards, which together are anticipated to provide further gains in biodiversity at the site. It is not possible to quantify faunal enhancement measures within the WCC calculator and accordingly these are therefore considered additional to the calculated Net Gain figures using the tool.
- 4.3. On this basis (and subject to detailed design, including the final detailed landscape planting information at the appropriate stage and implementation of the permitted scheme, including long term management), the proposals are considered to result in a substantial calculated net gain in biodiversity and there would appear to be no requirement for further measures or biodiversity offsetting in regard to the proposals. The proposals would therefore appear to be fully in line with relevant planning policy requirements in regard to biodiversity net gain, including in particular Policy LP16 within the North Warwickshire Local Plan.

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Appendix 5971-01/BIA1:

Existing Habitats and Ecological Features Plan

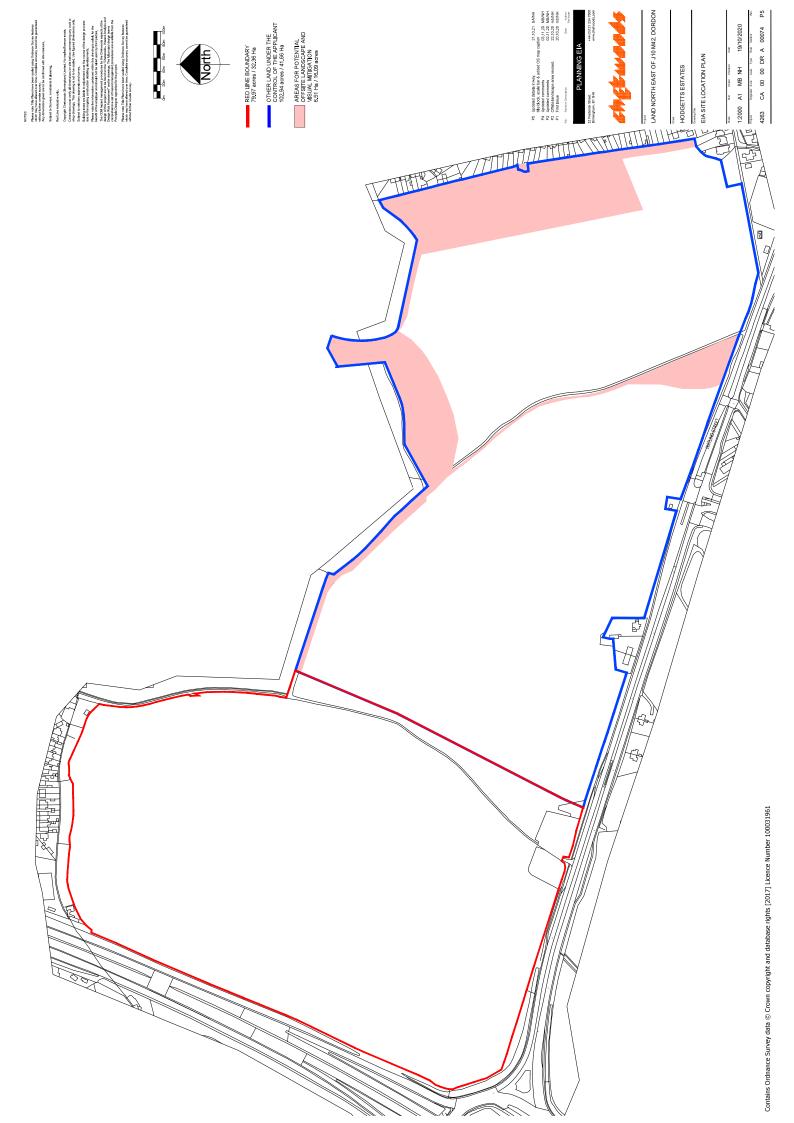




Appendix 5971-01/BIA2:

Proposed Scheme Plans:

Parameters Plan EIA Site Location Plan Illustrative Landscape Design Plan



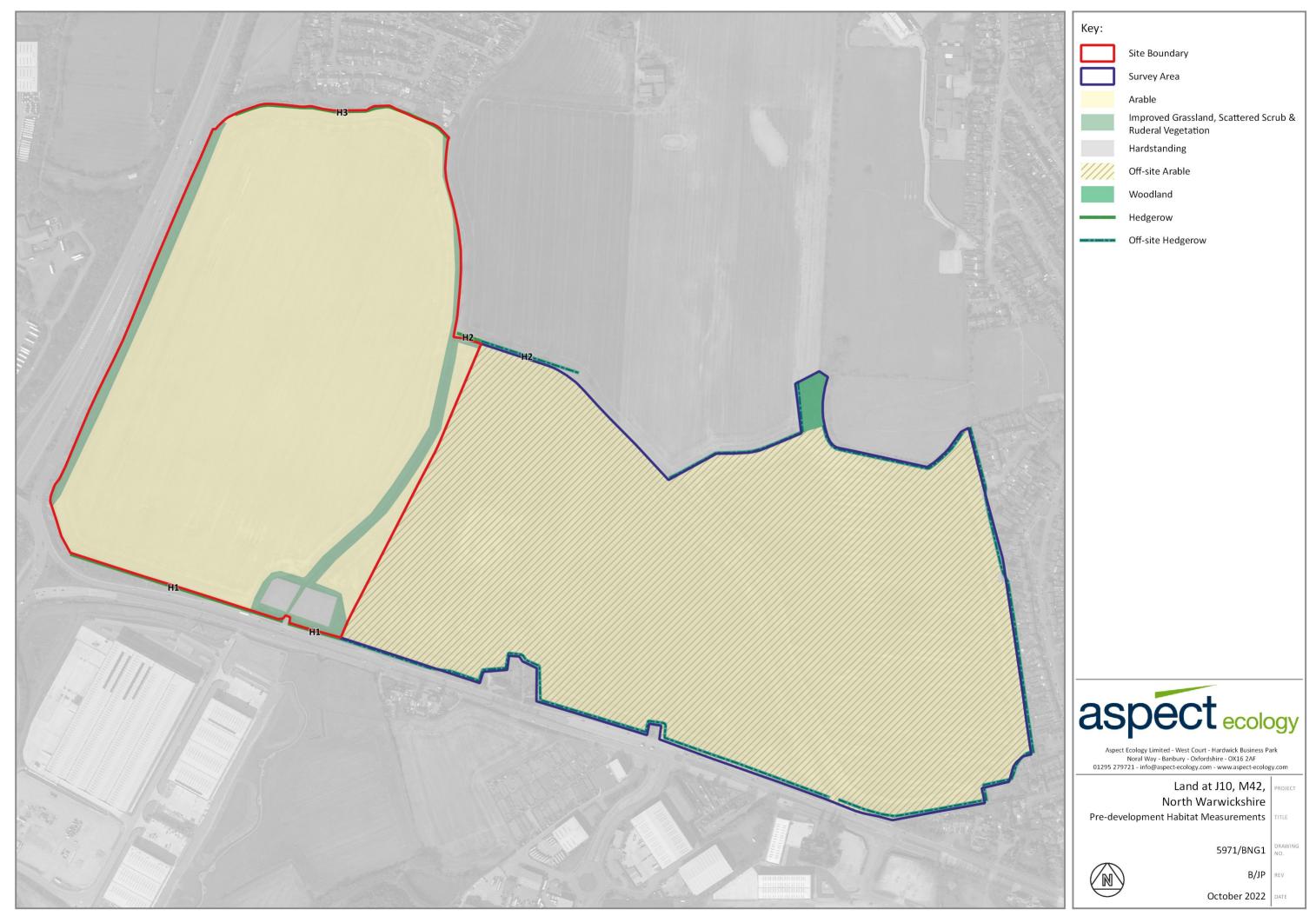


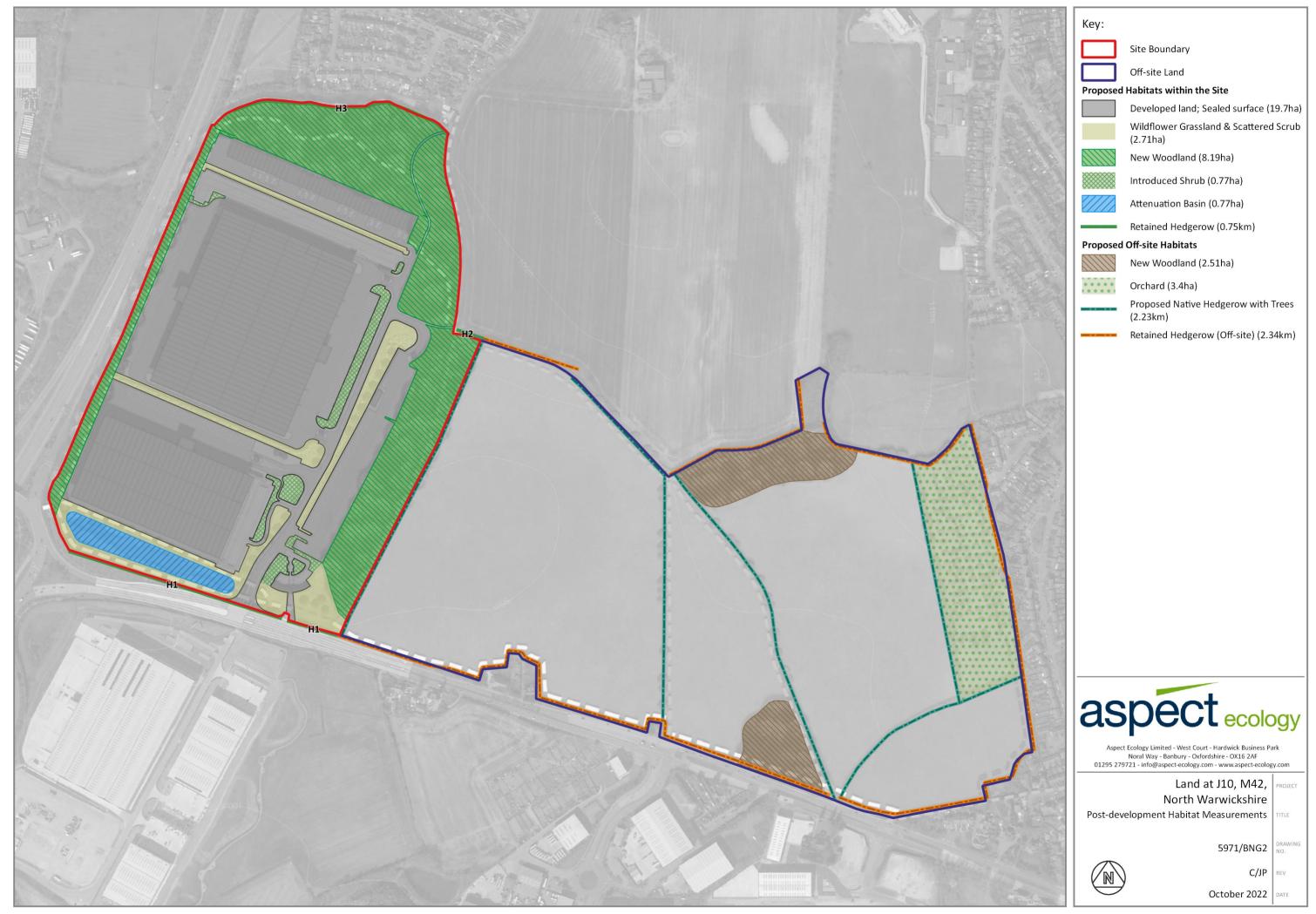




Appendix 5971-01/BIA3:

Completed WCC BIA Tool Pages





Biodiversity Impact Assessment Summary



Site name: Land at M42 J10

Planning reference number: PAP/2021/0663

| Existing | Habitat Area (ha) | Hedgerow impact (km) | Connectivity Features (km) | Habitat Biodiversity Value | Hedgerow Biodiversity Value | Connectivity Biodiversity Value |
|--|----------------------|-------------------------|----------------------------------|----------------------------------|-----------------------------------|---------------------------------------|
| Onsite Biodiversity Impact | 27.35 | 0.04 | 0.00 | 76.03 | 6.66 | 0.00 |
| Indirect Biodiversity Impact | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total habitat / linear features impacted | 27.35 | 0.04 | 0.00 | 76.03 | 6.66 | 0.00 |
| Retained / Created / Enhanced | | | | | | |
| Onsite biodiversity retained | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| Onsite Creation | 27.35 | 2.23 | 0.00 | 50.22 | 20.07 | 0.00 |
| Biodiversity retained and enhanced | 10.70 | 0.00 | 0.00 | 42.80 | 0.00 | 0.00 |
| Total biodiversity retained/enhanced | 38.05 | 2.98 | 0.00 | 93.02 | 20.07 | 0.00 |
| Trading Down | n/a | n/a | n/a | 0.00 | 0.00 | 0.00 |
| Biodiversity Impact | n/a | n/a | n/a | 16.99 | 19.83 | 0.00 |

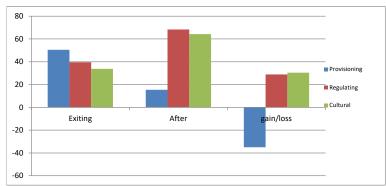
| Habitat Impacts | Loss | Gain | Impact | %age losses | Compensatory Unit loss | Indicative Offset (ha) | WCC Offset units | WCC Indicative Offset Contribution | County Council is currently |
|---------------------------------|-------|--------------|--------|-------------|---------------------------|---------------------------|------------------|--|---------------------------------|
| Woodland Habitat | 1.00 | 55.55 | 54.55 | | | | | | transferring 'Other' habitat |
| Grassland Habitat | 3.54 | 6.27 | 2.73 | | | | | | loss to Wetland |
| Wetland Habitat | 0.00 | 8.40 | 8.40 | | | | | | Creation |
| Other Habitat (incl. Built Env) | 50.09 | 1.40 | -48.69 | | | Transferred to \ | Wetland | | |
| Total | 54.63 | 71.62 | 16.99 | 0.00 | 0.00 | 0.00 | 0.00 | £0 | |
| | | Trading down | 0.00 | | | | <u> </u> | | = |
| | • | | 16.99 | | | | | | |

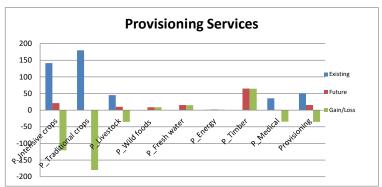
| Hedgerow Impacts | Loss | Gain | Trading down | Impact | Unit loss | Indicative Offset (km) | WCC Offset units | WCC Offset Contribution |
|------------------|------|-------|--------------|--------|-----------|---------------------------|------------------|-------------------------|
| Hedgerow | 0.24 | 20.07 | | 19.83 | | | | |

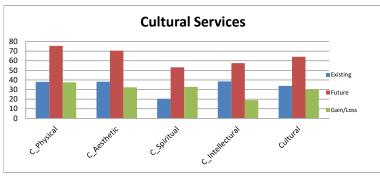
SUMMARY

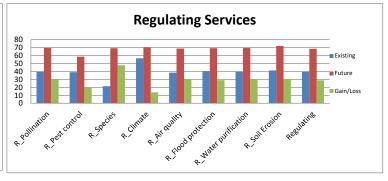
This development will result in 16.99 Habitat Biodiversity Units gain; 19.83 Hedgerow Units gain and 0 Connectivity Biodivesity Units loss

ECOSYSTEM SERVICES ANALYSIS









Warwickshire, Coventry & Solihull - Habitat Impact Assessment Calculator

| KEY | |
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| | No action required |
| | Enter value |
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| Local Planning Authority: | North Warwickshire Borough Council |
|--|------------------------------------|
| Site name: | Land at M42 J10 |
| Planning application reference number: | PAP/2021/0663 |
| Assessor: | Aspect Ecology CL |
| Date: | 31/10/2022 |

Please fill in both tables

Please do not edit the formulae or structure

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If additional rows are required, or to provide feedback on the calculator please contact WCC Ecological Services 01926
418060

| | | Result | - | Date: | | | | 31/10/2022 | | J | 410000 | | | |
|------------|-----------------|---|-------------------|-----------------|--------------|-----------|-----------|------------|--|----------------|---------------------------------------|------------------|-------------------------------------|--|
| | | Result | | | | | | | | Hahitat R | odiversity Value | <u> </u> | | 1 |
| | | Existing habitats on site Please enter <u>all</u> habitats within the site bounda | • | Habitat dist | tinctiveness | Habitat c | condition | no char | e <u>retained</u> with nge within opment | Habitats to be | e retained and ed within opment | Habitats t | o be <u>lost</u> within elopment | |
| T. Note co | | Phase 1 habitat description | Habitat area (ha) | Distinctiveness | Score | Condition | Score | Area (ha) | Existing value | Area (ha) | Existing value | Area (ha) | Existing value | Comment |
| | | Direct Impacts and retained habitats | | | Α | | В | С | $A \times B \times C = D$ | Е | $A \times B \times E = F$ | G | A x B x G = H | |
| J1 | | Other: Arable | 29.46 | Low | 2 | Poor | 1 | | | 8.19 | 16.38 | 21.27 | 42.54 | |
| n/ | а | Built Environment: Buildings/hardstanding | 0.41 | none | 0 | Poor | 1 | | | | | 0.41 | 0.00 | |
| A2 | 22 | Woodland: Scattered scrub | 0.25 | Medium | 4 | Poor | 1 | | | | | 0.25 | 1.00 | Improved grassland, tall herb and scattered scrub: divided to reflect proportions of each habitat type, as discu |
| B4 | | Grassland: Improved grassland | 1.77 | Low | 2 | Poor | 1 | | | | | 1.77 | 3.54 | Improved grassland, tall herb and scattered scrub: divided to reflect proportions of each habitat type, as discu |
| | | Other: Tall ruderal | 0.25 | Medium-Low | 3 | Poor | 1 | | | | | 0.25 | 0.75 | Improved grassland, tall herb and scattered scrub: divided to reflect proportions of each habitat type, as discu |
| J1 | 1 | Other: Arable | 5.91 | Low | 2 | Poor | 1 | | | 2.51 | 5.02 | 3.40 | 6.80 | Additional land outsite the site boundary but under the control of the applicant (within blue line), located east of |
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| | | To | otal 38.0 | 5 | | | Total | 0.00 | 0.00 | 10.70 | 21.40 | 27.35 | 54.63 | J |
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| | | | | | | | | | | | Site habitat bi | odiversity value | 76.03 | |
| | | Indirect Negative Impacts | | | | | | | rom indirect impa | acts | | | | |
| | | Including off site habitats | ., | | | | | KxAxB | 1: 1: | | | | | |
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| | | | | | | | | | | L | nabitat impa | act Score (HIS) | 54.63 | <u> </u> |

| <u> </u> | | Proposed habitats on site (Onsite mitigation) | | | distinctiveness | | tat condition | | | rget condition | resto | Difficulty of creation / restoration b | | |
|----------|------------|---|------------|-----------------|-----------------|-----------|---------------|-----------------------------|--------------|----------------|------------------|--|-----------------------------|---|
| . Note | | Phase 1 habitat description | Area (ha) | Distinctiveness | | Condition | Score | | Time (years) | | Difficulty | Score | | Comment |
| | | Habitat Creation | N | | 0 | | Р | | | Q | | R | $(N \times O \times P)/Q/R$ | |
| | n/a | Built Environment: Buildings/hardstanding | 19.70 | none | 0 | Poor | 1 | | 3 Years | 1.1 | Low | 1 | 0.00 | |
| | | Grassland: Semi-improved neutral grassland | 2.00 | Medium | 4 | Moderate | 2 | | 15 years | 1.7 | Medium | 1.5 | 6.27 | |
| | | Woodland: Scattered scrub | 0.71 | Medium | 4 | Good | 3 | | 15 years | 1.7 | Low | 1 | 5.01 | |
| | | Wetland: Inundation vegetation | 0.77 | High | 6 | Moderate | 2 | | 3 Years | 1.1 | Low | 1 | 8.40 | |
| | 114 | Other: Introduced shrub | 0.77 | Low | 2 | Poor | 1 | | 3 Years | 1.1 | Low | 1 | 1.40 | |
| | | | | | | | | | | | | | | |
| | | | 0.40 | | | | | | 40 | | | | 22.11 | |
| | \ 5 | Woodland: Orchard | 3.40 | High | 6 | Moderate | 2 | | 10 years | 1.4 | Low | 1 | 29.14 | Additional offsite enhancement Measures (see Proposed Illustrative Landscape Design) |
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| | | | Total 27.3 | - | | | | | | | | | | |
| | | Habitat Enhancement | 10tai 27.3 | 5 | | | | Endading a control | | | | | | |
| | | Habitat Effiancement | | | | | | Existing value S (= F) | ; | | | | ((NxOxP)-S)/Q/R | |
| | 1112 | Woodland: Broad-leaved plantation | 8.19 | Medium | 4 | Moderate | 2 | 16.38 | 32+ years | 3 | Low | 1 | 16.38 | In line with WCC standard position, new native woodland created over existing arable land to provide enhanced |
| | 1110 | | 0.54 | | | | | | 00 | | | | | |
| / | 1112 | Woodland: Broad-leaved plantation | 2.51 | Medium | 4 | Moderate | 2 | 5.02 | 32+ years | 3 | Low | 1 | 5.02 | Additional offsite enhancement Measures (see Proposed Illustrative Landscape Design). In line with WCC stan |
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| | | | Total 10.7 | 0 | | | _ | | | | Trading down | correction value | 0.00 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | Habitat Mitigati | on Score (HMS) | 71.62 | |

| | Loss | Gain | Impact |
|---|-------|--------------|--------|
| Woodland Habitat | 1.00 | 55.55 | 54.55 |
| Grassland Habitat | 3.54 | 6.27 | 2.73 |
| Wetland Habitat | 0.00 | 8.40 | 8.40 |
| Other Habitat (including Built Environment) | 50.09 | 1.40 | -48.69 |
| Total | 54.63 | 71.62 | 16.99 |
| | | Trading down | 0.00 |
| | | · | 16.99 |

Habitat Biodiversity Impact Score
Percentage of biodiversity impact loss

Warwickshire, Coventry & Solihull - Hedge Impact Assessment Calculator

KEY
No action required
Enter value
Drop-down menu
Calculation
Automatic lookup

This sheet calculates the impacts to hedges and lines of trees in and around the site.

These units are not transferrable as compensation for either the Habitat or Connectivity Impact Assessment scores.

Please fill in both tables

Hedge Biodiversity Impact Score Percentage of linear impact loss

Please do not edit the formulae or structure
To condense the form for display hide vacant
rows, do not delete them
If additional rows are required,
or to provide feedback on the calculator
please contact WCC Ecological Services

| | | Existing Hedgerow features on site | | Hedgerow dis | erow distinctiveness Hedgerow condition assessments | | | | | | | | retained wi | features to be ith no change evelopment | Hedgerow retained a | features to be nd enhanced evelopment | Hedgerow features to be <u>lost</u> within development | | | | |
|---------|-----------------|--------------------------------------|------------------------|-----------------|---|------|------|------|------|------|------|------|-------------|---|------------------------|---|---|----------------|-------------------|----------------|-----|
| T. Note | | Hedgerow habitat description | Feature length (km) | Distinctiveness | Score | A1 | A2 | B1 | B2 | C1 | C2 | D1 | D2 | Condition Score | | | | Existing value | | Existing value | |
| | | Direct Impacts and retained features | | | | | | | | | | | | | С | AxBxC=D | E | AxBxE=F | | AxBxG=H | |
| | | Hedges: non_species rich hedge | 0.42 | Low | 2 | Pass | Pass | Pass | Pass | Pass | Fail | Pass | Fail | 3 | 0.38 | 2.28 | | | 0.04 | 0.24 | 4 |
| H2 | | Hedges: non_species rich hedge | 0.05 | Low | 2 | Pass | Pass | Pass | Fail | Pass | Fail | Pass | Pass | 3 | 0.05 | 0.30 | | | | | 4 |
| H3 | n/a | Hedges: species rich hedge | 0.32 | Medium | 4 | Pass | Pass | Pass | Pass | Pass | Fail | Pass | Pass | 3 | 0.32 | 3.84 | | | | | |
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| | | Tota | 0.79 | 9 | | | | | | | | | | Totals | 0.7 | 6.42 | 2 0.0 | 0.00 | 0.0 | 0.2 | 4 J |
| | | | | | | | | | | | | | | | | | | | | ΣD + ΣF + ΣΗ | i |
| | | | | | | | | | | | | | | | | | | Site Hedge | Biodiversity Valu | 6.6 | 6 |
| _ | ore/after | Indirect Negative Impacts | | | | | | | | | | | | | Value of loss | from indirect imp | oacts | | | | |
| Ве | impact | | | | | | | | | | | | | | = Li, Lii | | | | | | |
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| | | Tota | 0.00 | | | | | | | | | | | | | 0.01 | M | | | HIS = J + M | |
| | | • | | | | | | | | | | | | | | | | Hedge Imp | act Score (HIS) | 0.2 | 4 |

| | | Proposed hedge features on site (Onsite mitigation) | | Target hedge d | istinctiveness | | | | Hedger | ow condition a | sessments | | | | Time till target condition | | et condition | Difficulty of creation / restoration | | | ĺ |
|-------|------|--|-------------|-----------------|----------------|-----------------|------|------|--------|----------------|-----------|------|------|--------------------|-----------------------------|--------------|--------------|---|--------------------|---------------------------------|---------|
| T Not | code | Phase 1 habitat description | Lenath (km) | Distinctiveness | Score | A1 | A2 | B1 | B2 | C1 | C2 | D1 | D2 | Condition Score | | Time (years) | Score | Difficulty | Score | Linear biodiversity value | Comment |
| | | Hedgerow Creation | N | | o | | | | | | | | | | | | Q | | R | (N x O x P) /Q/R | |
| | n/a | Hedges: species rich hedge with trees | 2.23 | High | 6 | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass | 3 | | 20 years | 2 | Low | 1 | 20.07 | |
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| | | Total | 2.23 | | | | | | | | | | | | | | | | | | |
| | | Hedgerow Enhancement | 2.23 | 1 | | | | | | | | | | | Existing value S (= F) | | | | | ((N×O×P)- S) /Q/R | |
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| | | | | | <u> </u> | , in the second | | | | | | | | | | | | | | | |
| | | Total | 0.00 | | | | | | | | | | | | | | | | m correction value | | |
| | | | | | | | | | | | | | | | | | | Hedge Mitiga | tion Score (HMS) | 20.07 | |
| | | | | | | | | | | | | | | | | | | | HBIS = HMS - | 1 | |

| KEY | |
|-----|--------------------|
| | No action required |
| | Action required |
| | Drop-down menu |
| | Calculation |
| | Automatic lookup |
| | Overall Gain |
| | Overall Loss |

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