



Preliminary Ecological Appraisal Report

Report Ref. ER-8982-01

13/03/2026

Zerum

Report reference	ER-8982-01 - Preliminary Ecological Appraisal Report
Author	Paul Harrison BSc (Hons), MSc Assistant Ecologist
Technical Review	Josh Birchall BSc (Hons), MCIEEM Principal Ecologist
QA	Joseph Egan BSc (Hons) Graduate Ecologist
Project Manager	Josh Birchall BSc (Hons), MCIEEM Principal Ecologist
Date	13/03/2026
Report duration	In accordance with CIEEM (2019), unless otherwise stated the findings of this report remain valid for a period of 18 months. After this period advice should be sought on the scope of any updating work required.



Brooks Ecological Ltd has prepared this report for the sole use of Zerum. The information which we have prepared and provided is in accordance with the CIEEM's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions. This report does not constitute legal advice. The report is in accordance with the agreement under which our services were performed. No warranty, express or implied, is made as to the advice in this report or any other service provided by us. This report may not be relied upon by any other party except the person, company, agent or any third-party for whom the report is intended without the prior written permission of Brooks Ecological Ltd. This report presents a snapshot of the site at the date it was surveyed; the conditions and the species recorded present, or likely absent, can change rapidly. Resurvey is recommended to any third-party seeking reliance on this report. The content of this report may, in part, be based upon information provided by others and on the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from any third-party has not been independently verified by Brooks unless otherwise stated in the report. This report is the copyright of Brooks Ecological Ltd. Unauthorised reproduction or usage by any person is prohibited.

Unit A, 1 Station Road, Guiseley, Leeds, LS20 8BX
Phone: 01943 884451
01943 879129
www.brooks-ecological.co.uk
Registered in England Number 5351418

Contents

Introduction..... 1

Desk Study 2

Designations..... 3

Habitat Appraisal..... 5

Faunal Appraisal..... 10

Ecological Constraints 13

Ecological Opportunities..... 13

Conclusions and Recommendations 14

References..... 15

Appendix 2 List of species recorded 18

Appendix 3 Explanatory Notes and Resources Used 19

Appendix 4 Bat Activity Survey Rationale..... 22

Appendix 5 Wildlife Legislation, Policy and Guidance 23

Summary

This report is produced to inform Zerum of potential ecological constraints associated with their proposed development site and the need for further reporting or output to support a planning application.

This report is based on a desk study of designated wildlife sites and records of protected or notable species, and a preliminary ecological appraisal (PEA) carried out on the 24th February 2026.

The Site is a small section land which currently forms part of the car park in the south and waste ground in the north with woodland along the western boundary. Beyond the recommended retention of established trees, ecological constraints have not been identified at the Site.

Biodiversity Net Gain

Details on measurement of the Site's biodiversity and the implications of complying with the requirement to provide a net gain for biodiversity are provided in our separate report ER-8982-02.

Further surveys

Further surveys have not been recommended.

Introduction

1. Brooks Ecological Ltd was commissioned by Zerum to carry out a Preliminary Ecological Appraisal (PEA) of land at Scholes Cricket Club, Scholes, grid ref. SE165256. The survey includes land within the red line boundary shown in Figure 1, opposite.
2. This report is produced with reference to British Standard BS:42020 'Biodiversity Code of Practice for Planning and Development' and the CIEEM (2017) Guidelines for Preliminary Ecological Appraisal.

Purpose of a PEA

3. A PEA is an *initial assessment* of the baseline for a proposed development site and establishes whether the Site is likely to be constrained by ecology, and whether more information is needed to identify the ecological baseline.
4. The subsequent Preliminary Ecological Appraisal Report (PEAR) is intended to give guidance to a developer and assist with the early stages of project planning and design. Where a site is not complex or constrained, and no additional ecological input is necessary, the PEAR may be sufficient and suitable to support a planning application.
5. Biodiversity Accounting metrics are used separately to quantify the value of a Site in Biodiversity Units, which helps in the later stage of assessing the ecological impacts of the proposed development. This process is set out separately in the Biodiversity Gain Report which accompanies this PEAR.

Proposals/Reason for PEA

6. The PEA has been commissioned to inform proposals to construct two outdoor padel courts.

The Site

7. The application site 'the Site' comprises of a car park and a small plot of land adjacent to playing fields. The site is located inside the grounds of Scholes Cricket club within the village of Scholes. For the purposes of metric calculations, the Site area has been measured using GIS against the provided red line boundary as 0.2101ha.

Figure 1 The Site (red line boundary).



Desk Study

Landscape

8. The Site is located on the edge of a semi-rural area with domestic properties to the north and the south of the site but with open areas of agricultural land to the west, and the wider landscape to the east.
9. The Site overlies Carboniferous coal measure formation of mudstone, siltstone and sandstones, likely to give rise wet acid loamy and clayey soils.

Wildlife Corridors

10. The Site is not linked to any obvious wildlife corridors. The M62 c. 730m south east of the Site at its nearest point, which is likely to represent a significant barrier to movements.

Figure 2 Site in relation to nearby habitat corridors



Designations

11. The assessment uses a 2km area of search around the Site for records of protected and notable species and locally or nationally designated wildlife sites.

Statutory Designations

12. A search has been made to identify any nationally designated sites within a 2km radius of the Site, or internationally designated sites within a 10km radius. No international or nationally designated sites are shown within the respective distances of the application Site.

SSSI Impact Risk Zones (IRZs)

13. The Site lies within the IRZ for the South Pennine Moors SSSI but does not fall into any of the highlighted categories which require the LPA to consult with Natural England in relation to potential impacts.

Non-Statutory Designations

14. There no Local Wildlife Sites in the search area.
15. Direct and indirect impacts on all remaining sites as a result of this development are unlikely due to the Site's separation and distance.

Nature Improvement Area

16. The Site is not within any Nature Improvement Area.

Wildlife Habitat Network

17. The Site is not within any mapped Wildlife Habitat Network.

Granted EPSM Licences

18. There are no granted European Protected Species Mitigation (EPSM) licences shown within 1km of the Site.

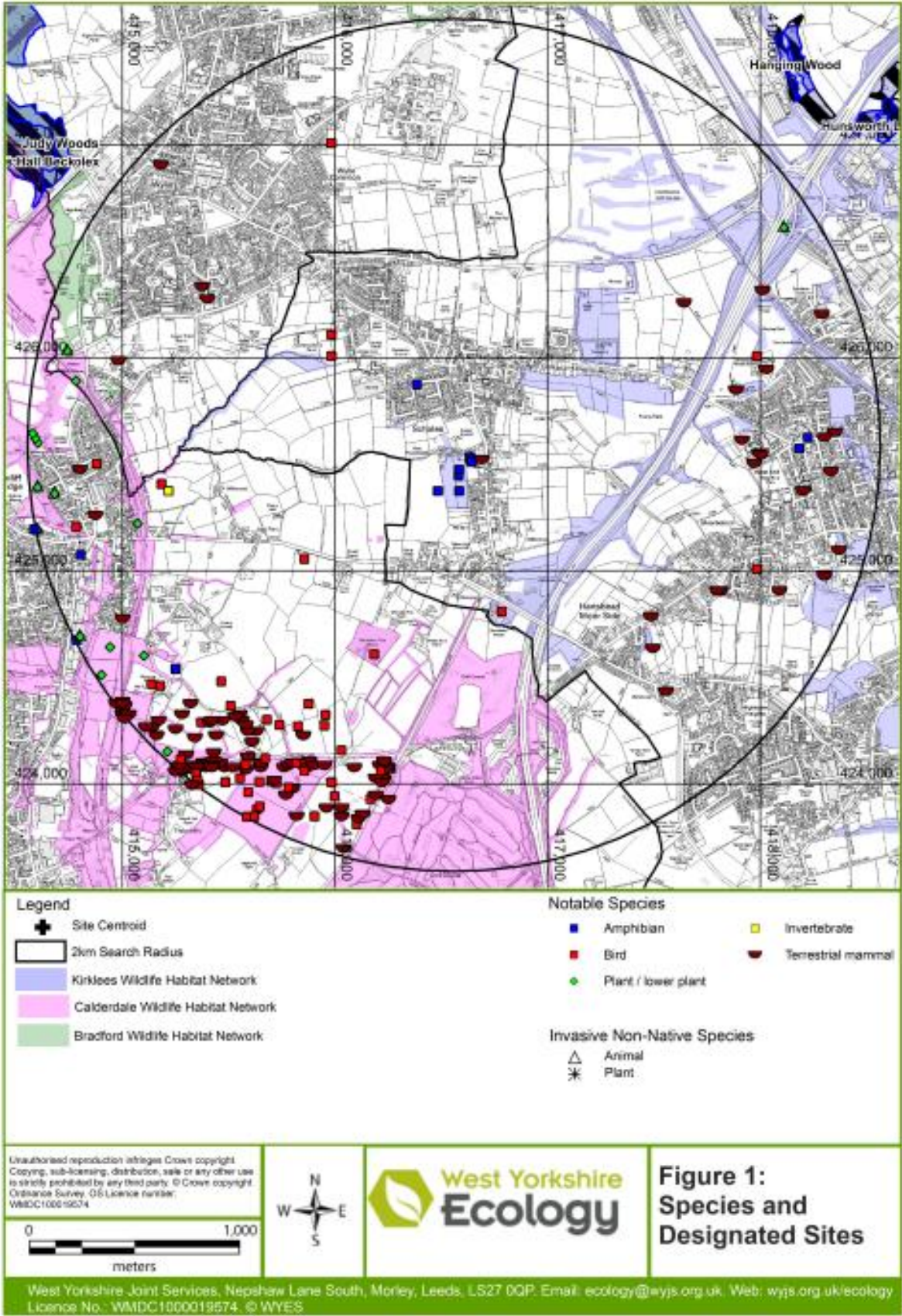
Mapped Ancient Woodland and Trees

19. There is no mapped ancient woodland (AW) or Plantation on an Ancient Woodland Site (PAWS) within 15m of The Site, the nearest being AW at Old Hanna/Low 2.7km to the Northwest.
20. Records of Ancient Trees have been returned; there are no records of any ancient trees within the search area of the site.

Mapped Priority Habitat

21. There is no mapped Priority Habitat within influencing distance of the Site.

Figure 3 Records of designated sites and notable species within 2km of the Site; West Yorkshire Ecology.



Survey

22. The survey was carried out during February 2026¹ and followed the principles of Extended Phase 1 Habitat Survey methodology (JNCC, 2010).
23. The timing of the survey meant that it was possible to confidently classify the type and condition of habitats present on this Site.
24. Although out of the main growing season, the nature of habitats present here, and the expertise and training of the surveyor meant that it was still possible to confidently classify the type and condition of habitats present on this Site.
25. Enough time was afforded the surveyor to carry out the survey. The survey was not constrained by poor weather.
26. Whilst the majority of the Site was accessible, at least 10% of the Site was inaccessible due to very dense vegetation, which could not be closely inspected. This could have concealed evidence of invasive species.
27. Two ponds 200m south of the site could not be inspected for habitat suitability due to access limitations.

Habitat Appraisal

28. The Site's habitats are described in order on the following pages. In line with the requirement to provide information on Biodiversity Net Gain (BNG), habitats are named in accordance with the UK Habitats classification system. We have used the UK Habitats v2.01 guidance in identifying habitats. Habitat descriptions are divided into the 'distinctiveness' categories used in the calculations presented in the Biodiversity Gain Assessment, with more weight being afforded the more distinctive/important habitats.
29. Generally, the following apply to each tier of distinctiveness, although some authorities might highlight some lower distinctiveness habitats as having a higher importance locally. Where relevant we have highlighted these.

Very Low Distinctiveness Habitats

30. Habitats of little or no habitat value, i.e., lacking any significant native vegetation, but could still provide supporting habitat for protected or notable fauna such as birds or bats. In the context of BNG, their areas are included in calculations, but mitigation or compensation is not required.

Low Distinctiveness Habitats

31. Habitats which are ubiquitous, often which have been created or modified intentionally. They tend to lack diversity of species and structure. They are unlikely to support notable flora but could still provide supporting habitat for protected or notable fauna. In the context of BNG, they are included in calculations, but compensation/mitigation needs only to provide habitat of similar or higher distinctiveness.

Medium Distinctiveness Habitats

32. Habitats which are common but provide a higher level of structural and species diversity. Though unlikely to support more notable assemblages, species of interest could be present here and they are more likely to be important supporting habitat to fauna. In the context of BNG, mitigation needs to provide habitat of the same broad habitat type, or that of higher distinctiveness.

High Distinctiveness Habitats

33. Habitats which are more natural and contain more important assemblages of plants and potentially species which are rare in their own right. They will provide good habitat for fauna. These habitats are likely to be targeted as conservation priorities and will be the subject of additional policy guidance or legislation. In the context of BNG, whilst mitigation or compensation for loss or damage is possible, provision of more of the same type of habitat would be required, which (with a few exceptions) is likely to be difficult.

Very High Distinctiveness Habitats

34. These are the UK's rarest/best habitats. They will be present in very particular locations and a range of rare or important plant and animal species will depend on the particular conditions they provide. These habitats will be the subject of restrictive policy guidance or legislation. Whilst the BNG metric does not preclude mitigation or compensation in respect of these habitats, creation of the same habitat type would be required, and this would range between very difficult/expensive and impossible.

Irreplaceable Habitats

35. These are habitats of high biodiversity value, which are so difficult to recreate that it would be impossible to achieve the requirement to increase biodiversity on top of no net loss. These habitats have significant protection in the NPPF; any impacts from development require a strong justification and will flag as unacceptable in the Biodiversity Metric. Bespoke compensation for any loss of these habitats must be agreed with the LPA.
36. Each habitat is mapped and an area for each type is provided in the format of the Statutory Biodiversity Metric Calculation Tool. The areas can be used to quantify the impacts of development in an Ecological Impact Assessment if this is required by the Local Planning Authority.

¹ This Report has been prepared during February 2026 following a visit to the Site in February 2026, and our findings are based on the conditions of the Site that were reasonably visible and accessible at that date. We accept no liability for any areas that

were not reasonably visible or accessible, nor for any subsequent alteration, variation, or deviation from the Site conditions which affect the conclusions set out in this report.

Habitats of Low/Very Low Distinctiveness

Figure 4 Approximate location and extent of these habitats.



Table 1 Summary – Habitats of Low/Very Low Distinctiveness.

UK Habitats	Label Ref	Summary Description
Modified Grassland	-	Neutral grassland which is regularly mown and managed as a football play field. The sward height is predominantly less than 7cm with exceptions of patches adjacent to the pavilion and the northern boundary of the Site, these areas show some of the taller herb species present including rare soft rush, rare broad-leaved dock and rare narrowleaf dock. The remainder of the grassland species include frequent perennial rye grass, occasional cocksfoot, occasional Yorkshire fog, and rare common bent.
Artificial Unvegetated, Unsealed Surface	-	To the north of the Site is an area of compacted loose gravel that is sparsely vegetated. Sections of this site have been used as a waste dump with signs of recent disturbance including the burning of waste.
Developed land, Sealed Surface	-	The majority of the Site consist of a car park to the south and a single-story building (the pavilion) in the north-east corner of the Site.

Habitats of Low/Very Low Distinctiveness

Figure 5 Modified grassland at the north-east section of the Site.



Figure 6 Modified grassland looking north-east from the pavilion.



Figure 7 Other Broad-leaved Woodland along the eastern boundary of the Site.



Figure 8 Artificial Unvegetated, Unsealed Surface north-western section.



Figure 9 Developed land, Sealed Surface at the south of the site.



Habitats of Medium Distinctiveness

Figure 10 Approximate location and extent of these habitats.



Table 2 Summary of Medium Distinctiveness habitats.

UK Habitats	Label Ref	Summary Description
Other Broad-leaved Woodland	-	Running along the western boundary of the Site is an area of broad-leaved woodland. This woodland is largely dominated by ash, sycamore, and goat willow with hazel and poplar present. The understory is dominated by bramble covering approximately 80% of the woodland floor. Other species present include abundant lonicera, and, less abundant, cherry laurel, rosehip, hedge bindweed, and holly berry cotoneaster which is listed under Schedule 9 of the wildlife and countryside act of 1981 as an invasive species.

Trees

Figure 1 Approximate location and extent of these habitats.



Table 3 Summary – trees.

UK Habitats	Label Ref	Summary Description
Individual Trees- Urban Trees	T1-4	On the northern boundary of the site are a line of four semi mature to immature trees. The species present are sycamore T1, and ash T2, and T3, and T4.
Individual Trees- Urban Trees	T5-6	Within the Artificial Unvegetated, Unsealed Surface habitat in the north-western corner of the Site are two goat willow trees (T5 and T6) which appear to have been coppiced at some point.

Figure 32 Four semi mature to immature trees at the northern boundary of the Site.



Figure 43 Goat willow trees located in the north-western section of the Site.



Faunal Appraisal

37. The following pages discuss only the groups and species that could be reasonably expected to be found on the type of habitats present on, or adjacent to, the Site.

Amphibians

Desk evidence

38. There are two ponds located 150m and 176m south of the Site. Access could not be gained to the ponds during the Site visit to assess the suitability for amphibians.
39. There are records of great crested newt (GCN) returned for the area. GCN have been recorded within 200m of the Site from 2007- 2017.

Field Evidence

40. The Site has negligible potential for supporting GCN due to the following reasons. The south-eastern boundary of the Site is enclosed by high dry-stone wall (Figure 14), in addition, to the south of the Site there is a similar wall running parallel along New Popplewell lane (Figure 15). This lane has high curbs and, although not a major road, is frequently used. All these features provide a substantial barrier from GCN records in the south and the Site.
41. Most of the field records locations are now within the recently constructed development site to the south of the Site.
42. The Site itself supports only marginal terrestrial habitats and is frequently disturbed by dog walkers, people tipping and burning waste, and the use of the pavilion and car park. The developed areas and car park are entirely unsuitable to support GCN and further separate other habitats from areas of records.

Summary Evaluation

43. The site supports only marginal terrestrial habitat, with development focused on unsuitable areas. Also, despite proximity to records the Site is isolated by unsuitable habitat and new development, therefore has negligible GCN potential.

Further Surveys and Recommendations

44. No further surveys or precautions are considered necessary.

Figure 54 Ponds mapped in relation to the Site.



Figure 15 Dry stone wall to the south



Figure 16 New Popplewell lane wall and road with curbs



Bats

Desk evidence

45. One hundred and thirty-one bat records were returned thirteen of these were bat roost records. The closest record was 109m south-east of the Site in 2007.

Field Evidence (Roosting)

46. There are no buildings on Site, however there is a building i.e. the pavilion adjacent to the site boundary. There are currently no plans for any work to be carried out on this building.
47. Trees have been inspected for roost suitability and found to be unsuitable for bats with negligible bat roost potential.

Field Evidence (foraging and commuting)

48. The Site has little potential for foraging or commuting with only limited foraging potential coming from the woodland. No work is planned for this area therefore there will be no impact on this habitat.
49. The Site does not form part of any apparent network of habitat which could provide key commuting habitat locally.

Summary Evaluation

50. Due to the lack of potential for bats and the limited impact from the proposed work to be carried out there will be negligible impact for bats.

Further Surveys and Recommendations

51. Further surveys are not recommended. There would be opportunities to provide new roost sites in the woodland at the Site and sympathetic lighting scheme could be considered.

Badgers

Desk evidence

52. There are no records of badgers within 200m of the Site, the area the nearest sett record is 1,680m from the Site.

Field Evidence

53. The Site provides potential habitat for sett building in the areas of dense scrub, however its location makes their presence here somewhat unlikely.
54. No evidence of badger was found however access throughout the areas of dense scrub was not possible.

Summary Evaluation

55. Badger setts are unlikely to be present at the Site as affected by the proposals.

Further Surveys and Recommendations

56. Given that absence cannot be demonstrated at this stage a precautionary pre-works check for setts is recommended – co-ordinated with Site clearance.

Hedgehogs (NERC Act 2006/Local BAP)

Desk evidence

57. Hedgehogs are recorded within the search area.

Field Evidence

58. No evidence of hedgehogs was found on site.

Summary Evaluation

59. The Site provides suitable habitat for this species and at least occasional presence should be assumed.

Further Surveys and Recommendations

60. Presence assumed; no further surveys are considered necessary however measures to allow them continued access to gardens should be planned for.

Invasive Non-Native Species (INNS)

61. INNS are species listed on Schedule 9 of the Wildlife and Countryside Act (1981), for which it is an offence to cause or allow it to grow in the wild.

62. The following INNS were noted during survey²:

- Cotoneaster

Survey constraints

63. This survey is constrained by the presence of areas that were inaccessible due to the density of vegetation.

64. Although no INNS have been identified in this preliminary survey, it is not always possible to conclude absence from preliminary survey alone due to factors such as season, accessibility, third-party attempts to hide evidence, or undisclosed treatment programmes. For this reason, this report should not be relied upon as definitive evidence of absence of INNS.

65. This site presents a small risk of supporting undetected INNS based on the following factors:

- Areas of site inaccessible to survey
- Potential for tipping of material

66. Should further assurances be needed in relations to INNS, a dedicated Invasive Weed Survey should be commissioned.

² Whilst our ecologists are trained in the identification of invasive species, this report is not a dedicated invasive species survey. Detectability of invasive plant species can be affected by several factors, and conclusive determination status, or extent, is not

possible through preliminary survey alone. As the presence of invasive species can generate significant costs to development, the client may wish to instruct a dedicated invasive species survey prior to entering into contracts.

Ecological Constraints

Habitat Value

67. The usual approach to development is to minimise any net loss of biodiversity towards a gain in biodiversity value where this is possible on-Site. Our separate report on Biodiversity Gain sets out the position of the Site in terms of measured biodiversity.
68. Irrespective of the Biodiversity Gain process, development should still seek to retain what is best about the Site.
69. The plan opposite shows the Site in the context of mapped habitat distinctiveness (as assessed at the time of the survey*) with the aim of informing the design of any layout. It shows that there are no targets of medium or higher distinctiveness or irreplaceable habitat which would need to be avoided by the proposals and that the Site is relatively uniform in terms of potential impact.
70. Habitats do not impose any particular design constraints. Loss of habitat of this nature are not of the order which (outside of Biodiversity Net Gain) would require specific mitigation or compensation as they are common locally.

Trees along the northern boundary of the site should be retained if possible.

**This represents our assessment of the habitat type and condition at the time of survey. This may change if the survey was carried out in sub-optimal season or growing conditions. Where this is the case, we will recommend updating surveys during the optimal season.*

Faunal constraints

71. Faunal constraints have not been identified.

Ecological Opportunities

72. Ecological opportunities at the Site relate to:

- Potential to improve the distinctiveness of the other broadleaved woodland by implementing a management scheme.
- Planting native trees where possible along the Site boundary or if not possible, off Site around the perimeter of the football field to the north of the Site.
- Installing nests boxes in the other broadleaved woodland to the west of the Site.

73. A Biodiversity Management Plan would be useful in defining these enhancements and can be secured by standard condition.

Conclusions and Recommendations

Planning considerations		
Recommendation	Rationale	When
R1 Additional Surveys	No further surveys recommended	N/a
R2 Produce a layout which minimises loss of biodiversity	Engage with the Constraints and Opportunities set out above, involve your ecologist in designs at an early stage. The proposals will need to consider the biodiversity gain hierarchy of Avoid–Enhance–Create–Offset in minimising any loss of biodiversity. Biodiversity Net Gain (BNG) policy mandates a minimum 10% Net Gain in Biodiversity Units, and the LPA may request additional gains. Your layout may need to change to accommodate your findings from R1 surveys.	During the design process
R3 Design	Make sure your design team follows ecological advice to and make sure there are no design conflicts. <u>Produce a habitat retention plan at an early stage</u> which can be used to inform BNG and maximise scores. A habitat retention plan should identify areas which can be excluded from any impacts of clearance and construction. In producing a plan you should consider the need to provide (amongst other things) Site compounds, to store and move materials, to install drainage, flood storage, access and services, all with suitable easements. <u>Decide on the extent of red-line vs blue/black-line land.</u> Minimising the extent of your red line can limit exposure to BNG, but can also leave you needing separate legal agreements to use off-Site land for BNG delivery. Work out at an early stage what is right for your project. Your planning consultant should be able to help with this decision.	During the design process
R4 Biodiversity Net Gain (BNG)	Carry out a BNG Assessment using the Statutory Biodiversity Metric Calculation Tool and accompanying Condition sheets produced by Defra. It is important that the baseline survey is undertaken during the appropriate season for the habitat type being assessed, so as to ensure the accuracy of habitat mapping and calculating condition scores. Where an initial survey is undertaken at a sub-optimal time of year, it is recommended that updating surveys be carried out during the optimal season for that habitat, prior to the BNG assessment being finalised. Failure to do this could mean that the final Biodiversity score calculated for a project is incorrect, which could then impact on any financial contribution that has been budgeted for to address Biodiversity Offsetting. Prior to development commencing, a Habitat Management and Monitoring Plan (HMMP) and Biodiversity Gain Plan (BGP) may be requested by the LPA.	During the design process. Baseline survey to be completed during the appropriate season.

Other considerations (managing legal or financial risks)		
Issue	Rationale	When
R5 Nesting bird management (if not produced and committed to in the CEMP)	As with most sites, the standard precaution in relation to birds would apply. To prevent the proposed works impacting on nesting birds, any clearance of vegetation will need to be undertaken outside of the breeding bird season, which runs from 1st March–31st August inclusive. Any clearance required during the breeding bird season should be preceded by a nesting bird survey to ensure that the law is not contravened through the destruction of nests and that any active nests are identified and adequately protected during the construction phase of the development.	Prior to and during clearance
R6 INNS Management Plan	This provides a formal INNS Survey and sets out management prescriptions and timings in detail. It can provide security for the Main Contractor and assurance for future Site operators/purchasers/owners.	Best initiated at an early stage (INNS Survey would ideally be complete April - October)

References

Guidelines and Best Practice

British Standards Institution (BSI). 2013. *BS42020 Biodiversity – Code of practise for planning and development*. London: BSI Standards Limited.

Chartered Institute of Ecology and Environmental Management (CIEEM). 2019. *Advice note: on the lifespan of ecological reports and surveys*. Winchester: Chartered Institute of Ecology and Environmental Management. [Online]. Available from: <https://cieem.net/resource/advice-note-on-the-lifespan-of-ecological-reports-and-surveys/>

Chartered Institute of Ecology and Environmental Management (CIEEM). 2017. *Guidelines for Preliminary Ecological Appraisal (2nd edition)*. Winchester: Chartered Institute of Ecology and Environmental Management. [Online]. Available from: <https://cieem.net/resource/guidance-on-preliminary-ecological-appraisal-gpea/>

Hill, D. et al. 2005. *Handbook of Biodiversity Methods: Survey, Evaluation and Monitoring*. Cambridge: Cambridge University Press.

Institute of Environmental Assessment. 1995. *Guidelines for baseline ecological assessment*. London: E & FN Spon.

Joint Nature Conservation Committee (JNCC). 2010. *Handbook for Phase 1 habitat survey – A technique for environmental audit (revised)*. Peterborough: Joint Nature Conservation Committee (JNCC). [Online]. Available from: <https://hub.jncc.gov.uk/assets/9578d07b-e018-4c66-9c1b-47110f14df2a>

Ratcliffe, D.A. 1977. *A Nature Conservation Review*. Cambridge: Cambridge University Press on behalf of the Nature Conservancy Council and the Natural Environment Research Council.

UK Hab Ltd. 2023. *The UK Habitat Classification Version 2.0*. Stockport : UKHab Ltd. [Online]. Available from: <https://ukhab.org/ukhab-documentation/>

Desk Study

Bat Tree Habitat Key (BTHK). 2018. *Bat Roosts in Trees – A Guide too Identification and Assessment for Tree-Care and Ecology Professionals*. Exeter: Pelagic Publishing.

Collins, J. 2023. *Bat Surveys for Professional Ecologists: Good Practise Guidelines (4th edition)*. London: The bat Conservation Trust.

English Nature. 2001. *Great Crested Newt Mitigation Guidelines*. Peterborough: English Nature. [Online]. Available from: https://mokrady.wbs.cz/literatura_ke_stazeni/great_crested_newt_mitigation_guidelines.pdf

Fay, N. 2007. *Defining and Surveying Veteran and Ancient Trees*. [Online]. Available from: https://www.treeworks.co.uk/downloads/publications/DEFINING_AGE_AND_SURVEYING_VETERAN_AND_ANCIENT%20TREESa.pdf

Gent, T. and Gibson, S. 2003. *Herpetofauna Workers' Manual (revised reprint)*. Peterborough: Joint Nature Conservation Committee (JNCC). [Online]. Available from: <https://hub.jncc.gov.uk/assets/9d7da8c4-9d76-4b65-8263-6b925b3433a4>

Mitchell-Jones, A.J. and McLeish, A.P. 2004. *Bat Workers Manual (3rd Edition)*. Peterborough: Joint Nature Conservation Committee (JNCC). [Online]. Available from: <https://hub.jncc.gov.uk/assets/e5888ae1-3306-4f17-9441-51a5f4dc416a>

Natural England. MAGiC. [Online]. [Accessed 16th January 2024]. Available from: <https://magic.Defra.gov.uk/MagicMap.aspx>

Oldham, R.S., Keeble, J., Swan, M.J.S. & Jeffcote, M. 2000. Evaluating the suitability of habitat for the Great Crested Newt (*Triturus cristatus*). *Herpetological Journal*. **10**(4), pp. 143-155. [Online]. Available from: <https://www.thebhs.org/publications/the-herpetological-journal/volume-10-number-4-october-2000/1617-03-evaluating-the-suitability-of-habitat-for-the-great-crested-newt-triturus-cristatus/file>

Reason, P.F. and Wray, S. 2023. *UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats*. Version 1.1. Ampfield: Chartered Institute of Ecology and Environmental Management. [Online]. Available from: <https://cieem.net/wp-content/uploads/2023/09/Bat-Mitigation-Guidelines-2023-V1.1.pdf>

Legislation and Strategy

Department for Environment, Food and Rural Affairs (DEFRA). 2011. *Biodiversity 2020: A strategy for England's wildlife and ecosystem services*. London: Her Majesty's Government. [Online]. Available from: <https://www.gov.uk/government/publications/biodiversity-2020-a-strategy-for-england-s-wildlife-and-ecosystem-services>

Joint Nature Conservation Committee (JNCC). *UK Biodiversity Indicators 2023*. Peterborough: Joint Nature Conservation Committee (JNCC). [Online]. Available from: <https://jncc.gov.uk/our-work/uk-biodiversity-indicators-2023/>

Government Circular 06/05: Office of the Deputy Prime Minister (ODPM) 2005. *Biodiversity and Geological Conservation – Statutory Obligations and Their Impact Within the Planning System*. London: Her Majesty's Government. [Online]. Available from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/7692/147570.pdf

House of Commons, Environment, Food and Rural Affairs Committee. 2011. *Natural Environment White Paper*. London: Her Majesty's Government. [Online]. Available from: <https://www.parliament.uk/globalassets/documents/commons-committees/environment-food-rural-affairs/NEWPConsolidatedWrittenEvidenceNov11.pdf>

Ministry of Housing, Communities & Local Government. 2024. *National Planning and Policy Framework*. London: Her Majesty's Government. [Online]. Available from: <https://assets.publishing.service.gov.uk/media/675abd214cbda57cacd3476e/NPPF-December-2024.pdf>

Natural Environment and Rural Communities Act 2006. (c.61, Part 3, Section 41). London: Her Majesty's Government. [Online]. Available from: [https://www.legislation.gov.uk/ukpga/2006/16/section/41#:~:text=41Biodiversity%20lists%20and%20action%20\(England\)&text=\(1\)The%20Secretary%20of%20State,%5BF1or%20enhancing%5D%20biodiversity](https://www.legislation.gov.uk/ukpga/2006/16/section/41#:~:text=41Biodiversity%20lists%20and%20action%20(England)&text=(1)The%20Secretary%20of%20State,%5BF1or%20enhancing%5D%20biodiversity)

The Conservation of Habitats and Species Regulations 2010. (No. 490). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/uksi/2010/490/contents/made>

The Statutory Biodiversity Metric User Guide. 2024. London: Department for Environment, Food and Rural Affairs (Defra). [Online]. Available from: <https://www.gov.uk/government/publications/statutory-biodiversity-metric-tools-and-guides>

UK Statutory Nature Conservation Bodies (SNCBs). 2018. *Favourable Conservation Status : UK Statutory Nature Conservation Bodies Common Statement*. Peterborough: Joint Nature Conservation Committee (JNCC). [Online]. Available from : <https://hub.jncc.gov.uk/assets/b9c7f55f-ed9d-4d3c-b484-c21758cec4fe>

Wildlife and Countryside Act 1981. (c.69, Schedule 9). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/ukpga/1981/69/schedule/9>

Appendix 5 Legislation (where not stated above)

Council Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora (EC Habitats Directive). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/eudr/1992/43/contents>

Council Directive 79/409/EEC on the Conservation of wild birds (EC Birds Directive). London: Her Majesty's Government. [Online]. Available from: https://www.legislation.gov.uk/eudr/1979/409/pdfs/eudr_19790409_1994-07-20_en.pdf

Hedgerows Regulations (1997). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/uksi/1997/1160/contents/made>

Natural Environment and Rural Communities Act 2006 (NERC). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/ukpga/2006/16/contents>

Protection of Badgers Act (1992). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/ukpga/1992/51/contents>

The Countryside and Rights of Way Act 2000 (CRoW). London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/ukpga/2000/37/contents>

The Ramsar Convention on Wetlands of International Importance (1971). Switzerland: Convention on Wetlands Secretariat. [Online]. Available from: https://www.ramsar.org/sites/default/files/documents/library/original_1971_convention_e.pdf

The Wildlife and Countryside Act (1981) as amended. London: Her Majesty's Government. [Online]. Available from: <https://www.legislation.gov.uk/ukpga/1981/69/contents>

Appendix 1 Habitats and Ecological Features



Appendix 2 List of species recorded

Other-Broadleaved Woodland	
Ash	<i>Fraxinus excelsior</i>
Bindweed	<i>Calystegia sepium</i>
Bramble	<i>Rubus fruticosus</i>
Cherry laurel	<i>Prunus laurocerasus</i>
Cotoneaster	<i>Cotoneaster sp.</i>
Goat willow	<i>Salix caprea</i>
Hazel	<i>Corylus avellana</i>
Poplar	<i>Populus sp.</i>
Modified Grassland	
Cock's-foot	<i>Dactylis glomerata</i>
Creeping bent	<i>Agrostis stolonifera</i>
Perennial rye grass	<i>Lolium perenne</i>
Soft rush	<i>Juncus effusus</i>
Spanish bluebell	<i>Hyacinthoides hispanica</i>
Broadleaved dock	<i>Rumex obtusifolius</i>
Narrow leaved dock	<i>Rumex stenophyllus</i>

Appendix 3 Explanatory Notes and Resources Used

Site Context

Aerial photographs published on commonly used websites were studied to place the site in its wider context and to look for ecological features that would not be evident on the ground during the walkover survey. This approach can be very useful in determining if a site is potentially a key part of a wider wildlife corridor or an important node of habitat in an otherwise ecologically poor landscape. It can also identify potentially important faunal habitat (in particular ponds) which could have a bearing on the ecology of the application site. Ponds may sometimes not be apparent on aerial photographs so we also refer to close detailed maps that identify all ponds issues and drains.

Designated Sites

A search of the MAGIC (Multi-Agency Geographic Information for the Countryside) website was undertaken. The MAGIC site is a Geographical Information System that contains all statutory (e.g. Sites of Special Scientific Interest [SSSIs]) as well as many non-statutory listed habitats (e.g. ancient woodlands and grassland inventory sites). It is a valuable tool when considering the relationship of a potential development site with nearby important habitats. In addition, information from the local record holders was referred to on locally designated sites.

Functional linkage with off-Site habitats

When assessing these we consider whether the Site could be functionally linked to them, considering links such as:

- Hydrological links – is the Site upstream downstream, or could ground water issues affect it?
- Physical links – is the site in close proximity and could it be directly or indirectly affected by construction and operational effects? Conversely it may be that despite proximity major barriers separate the two.
- Recreational links – do footpaths and roads make it likely that increased recreational pressure could be felt?
- Habitat links – is the site part of a network of similar habitat types in the wider area? These could be joined by linear corridors or could simply be ‘stepping stones’ of habitat of similar form or function.

Method

Phase 1 habitat survey methodology (JNCC, 2010). This involves walking the site, mapping and describing different habitats (for example: woodland, grassland, scrub). The survey method was “Extended” in that evidence of fauna and faunal habitat was also recorded (for example droppings, tracks or specialist habitat such as ponds for breeding amphibians). This modified approach to the Phase 1 survey is in accordance with the approach recommended by the Guidelines for Baseline Ecological Assessment (IEA, 1995) and Guidelines for Preliminary Ecological Appraisal (CIEEM 2017).

Faunal Appraisal

This section first looks at the types of habitat found on Site or within the sphere of influence of potential development, then considers whether these could support protected, scarce, or NERC Act 2006 Section 41 species (referred to collectively as ‘notable species’).

Records of notable species supplied from a 2km area of search by West Yorkshire Ecology are used to inform this appraisal.

We discuss further only notable species or groups which could be a potential constraint due to the presence of suitable habitat and their presence (or potential presence) in the wider area. We screen out and do not present accounts of notable species or groups which do not meet these criteria – in some cases it may be necessary to explain this reasoning.

Consideration is given to the Local Biodiversity Action Plan (LBAP), which for this site is the 'Kirklees Biodiversity Action Plan'.

Species/group	Habitat
Floating water plantain	Semi-natural pasture
Great crested newt	Lowland and upland meadows
Marsh helleborine	Lowland dry acid grassland
Northern wood ant	Blanket bog
Twite	Upland heathland
Water vole	Upland flushes
White clawed crayfish	Lowland heathland
	Upland oak woodland
	Lowland deciduous and other woodlands
	Upland mixed ashwoods
	Wet woodland
	Arable field margins
	Hedgerows
	Rivers, riverine corridors and associated habitats
	Reedbeds
	Scrub and habitat mosaics on previously developed land

Bats

Bat roosting potential is classified according to the following criteria set out below, taken from the Bat Conservation Trust Good Practice Guidelines (2023).

Bat Roosting Suitability of Buildings

Suitability	Criteria
<i>None</i>	No habitat features on site likely to be used by any roosting bats at any time of the year (i.e. a complete absence of crevices/suitable shelter at all ground/underground levels).
<i>Negligible</i>	No obvious habitat features on site likely to be used by roosting bats; however, a small element of uncertainty remains as bats can use small and apparently unsuitable features on occasion.
<i>Low</i>	A structure with one or more potential roost sites that could be used by individual bats opportunistically at any time of the year. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity and not a classic cool/stable hibernation site, but could be used by individual hibernating bats).
<i>Moderate</i>	A structure with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only, such as maternity and hibernation - the categorisation described in this table is made irrespective of species conservation status, which is established after presence is confirmed).
<i>High</i>	A structure with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat. These structures have the potential to support high conservation status roosts, e.g. maternity or classic cool/stable hibernation site.

Bat Roosting Suitability of Trees

Suitability	Criteria
<i>None</i>	Either no PRFs in the tree, or highly unlikely to be any.
<i>FAR</i>	Further assessment required to establish if PRFs are present within the tree.
<i>PRF-I</i>	Potential roost feature suitable to support individual or low numbers of bats
<i>PRF-M</i>	Potential roost feature suitable to support multiple bats and possibly be used by a maternity colony

Evaluation

In evaluating the Site, the ecologist will take into account a number of factors in combination, such as:

- the baseline presented above,
- the Site's position in the local landscape,
- its current management and
- its size, rarity or threats to its integrity.

There are a number of tools available to aid this consideration, including established frameworks such as Ratcliffe Criteria or concepts such as Favourable Conservation Status. Also of help is reference to Biodiversity Action Plans in the form of the Local BAP and Section 41 of the NERC Act (2006) to determine if the Site supports any Priority habitats or presents any opportunities in this respect.

The assessment of impacts considers the generic development proposals from which potential effects include:

- Vegetation and habitat removal
- Direct effects on significant faunal groups or protected species
- Effects on adjacent habitats or species such as disturbance, pollution and severance
- Operation effects on wildlife such as noise and light disturbance

Appendix 4 Bat Activity Survey Rationale

The Bat Conservation Trust Guidelines (BCTG) (Collins 2023) is now widely accepted as providing a basis and rationale for scoping and conducting bat surveys. It is acknowledged that the guidelines provide a wealth of background and are a very useful tool in standardising approaches to survey, it is also felt that an over reliance on some of the guidelines within this document can result in the provision of complicated surveys where they have significant consequences for the cost, or timescale of a large project, but could never deliver positives for bat conservation.

Taking the BCTG document as a whole, Chapter 2 helps the reader understand whether or not surveys are required, and that in the context of planning and development survey is required in relation to ensure;

- the avoidance of legal offences, and;
- the provision of a sufficient level of information – such that will allow the Local Planning Authority to make an informed decision on the proposals and their potential impacts on the Favourable Conservation Status (FCS) of bats.

Attendance at seminars presented by, and discussions with, those involved in production of the BCTG document has emphasised the point that it is within the remit of the consultant ecologist to make a decision on the necessity and scope of surveys – they will use the guidelines in doing so but are not in any way bound by them: this is reflected in Section 1.1 of the guidelines –

‘The Guidelines do not aim to either override or replace knowledge and experience. It is accepted that departures from the guidelines (e.g. either decreasing or increasing the number of surveys carried out or using alternative methods) are often appropriate. However, in this scenario an ecologist should provide documentary evidence of (a) their expertise in making this judgement and (b) the ecological rationale behind the judgement.’

Such decisions require a consideration of the potential of the project to impact on bat habitat, alongside analysis of the value of habitat on and around the site and of local records and the likelihood that bats might occur in significant numbers. Our reports aim to present information on how we have arrived at our decision on the Site, what assumptions we have based this on, and where further survey is recommended we indicate what the objective of this survey should be and how best this would be achieved.

The Site is small, not strategically located and does not contain any potential key habitat features for bats, its use by this group can be easily predicted making any requirement for additional survey disproportionate.

Appendix 5 Wildlife Legislation, Policy and Guidance

This is not an exhaustive list but sets out briefly the relevance of Legislation, Policy and Guidance in terms of planning applications and this assessment.

Legislation

Council Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora (EC Habitats Directive).

Provides framework at an international (EU) level for the consideration/protection of European Protected Species (EPS), and habitats through the designation of sites.

Council Directive 79/409/EEC on the Conservation of wild birds (EC Birds Directive) and The Ramsar Convention on Wetlands of International Importance (1971)

Provides framework at an international (EU) level for the consideration/protection of important bird populations and the sites on which they are dependant.

The Conservation of Habitats and Species Regulations (2010)

This transposes the EC Habitats Directive into UK law and provides the basis on which all EPS are protected and impacts on them can be licensed in the UK.

The Wildlife and Countryside Act (1981) as amended

This provides the basis on which UK species are legally protected or restricted and confers protection on Sites of Special Scientific Interest SSSIs. It contains annexes of plants and animals which are legally protected as well as those which are considered to be invasive or harmful. It provides the basis on which impacts on such species can be licensed in the UK and provides controls on work on or near SSSIs.

The Countryside and Rights of Way Act 2000 (CRoW)

Provides a statutory basis for nature conservation, strengthens the protection of SSSIs and UK protected species and requires the consideration of habitats and species listed on the UK and Local Biodiversity Action Plans (UKBAP/LBAP).

Natural Environment and Rural Communities Act 2006 (NERC)

Sets out the responsibilities of Local Authorities in conserving biodiversity. Section 41 of the Act requires the publishing of lists of habitats and species which are "of principal importance for the purpose of conserving biodiversity". At present these largely reflect those making up the UKBAP lists.

Hedgerows Regulations (1997)

Define and provide protection for Important Hedgerows.

Protection of Badgers Act (1992)

Protects badgers from persecution, this includes excavation/development in the proximity of setts.

Protected SitesStatutory EU/International Protected Sites

Special Areas of Conservation (SACs); and Special Protection Areas (SPAs) and Ramsar Sites contain examples of some of the most important natural ecosystems in Europe. Work on or near these sites is strictly protected and Local Authorities will be expected to carry out 'Appropriate Assessment' of development in proximity of them. In this case there is often an increased burden on the developer in relation to provision of information and assessment.

Statutory UK Protected Sites

Local Nature Reserves (LNRs); National Nature Reserves (NNRs); Sites of Special Scientific Interest (SSSIs) all receive strict protection under UK legislation. Work in or in proximity to these sites would be restricted with any needing to be agreed with Natural England. Natural England now provide guidance on the nature of development which could impact on SSSIs through Impact Risk Zones.

Locally Protected Sites

Local Authorities have a variety of protected wildlife sites designated at a local or regional level. These are gradually being brought under the banner of Local Wildlife Sites (LWS) but at present a plethora of different designations exist – all subject to local policy.

Protected SpeciesEuropean Protected Species

A number of species (most relevantly bats, great crested newts [GCN], and otters) receive strict protection from killing, injury and disturbance under The Conservation of Habitats and Species Regulations (2010). Protection is also conferred on the habitats on which they rely such as roost space in the case of bats and ponds and fields etc. in the case of GCN.

UK Protected Species

A number of species (including bats, GCN, water vole and white clawed crayfish) are strictly protected under The Wildlife and Countryside Act (1981) as amended, from killing, injury, disturbance and damage or destruction of their resting places etc. Certain species (such as reptiles) and some birds (such as barn owl) receive partial protection e.g. at certain times of the year or from certain activities only. All

nesting bird species are protected from damage or destruction of their nests – whilst active.

Invasive speciesSchedule 9 of the Wildlife and Countryside Act (1981) as amended.

Lists these species and makes it an offence to cause or allow their spread in the wild. This often has impacts on development and planning in relation to the presence of invasive plant species such as: Himalayan balsam (*Impatiens glandulifera*), Japanese knotweed (*Reynoutria japonica*), and giant hogweed (*Heracleum mantegazzianum*).

Planning Policy/Guidance

The National Planning Policy Framework (NPPF)

The National Planning Policy Framework was updated in December 2024. The most relevant paragraphs from the NPPF are set out below.

The approach to assessing the natural environment is now embedded within the definition of what 'sustainable development' is and this falls under one of three objectives of the planning system – the 'environmental objective' applying in this case. Paragraph 8c (P8c) of the NPPF states that sustainable development should "protect and enhance our natural, built and historic environment", including "improving biodiversity". P10 sets out the Framework's presumption in favour of sustainable development.

Section 11 of the NPPF details making effective use of land. The Framework states that planning policies and decisions should take "opportunities to achieve net environmental gains – such as developments that would enable new habitat creation" and should "recognise that some undeveloped land can perform many functions, such as for wildlife" (P125).

Section 15 details conserving and enhancing the natural environment; policies and decisions should be "protecting and enhancing valued landscape [and] sites of biodiversity [...] value", "recognise the intrinsic character and beauty of the countryside" and contribute to conserving and enhancing the natural environment and reducing pollution (P187). Allocations of land for development should, "allocate land with the least environmental or amenity value, where consistent with other policies in this Framework" and "take a strategic approach to maintaining and enhancing networks of habitats" (P188).

The Framework sets out ways to minimise the impacts on biodiversity through plans which "identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity" and promote the "conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity" (P192).

It is made clear in P193 that local planning authorities should apply a set of principles when determining planning applications. Planning permission should be refused "if significant harm to biodiversity resulting from development cannot be avoided [...], adequately mitigated, or, as a last resort, compensated for". Development should not normally be permitted where an adverse effect on a SSSI

is likely, and "opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity".

UK Biodiversity Indicators 2023: update to Biodiversity 2020: A Strategy for England's Wildlife and Ecosystem Services

The UK Biodiversity Indicators 2023 provide updates to the indicators set out in Biodiversity 2020 including new species abundance targets as set out in the Environment Act 2021. Biodiversity 2020 builds on the Natural Environment White Paper (June 2011) – Setting out the current UK Government's approach to nature conservation. It promotes a more coherent and inclusive approach to conservation and the valuing in economic and social terms of economic resources.

The strategy promotes initiatives such as Biodiversity Offsetting, Nature Improvement Areas and a focus on well-connected natural networks and introduces the concept of securing a 'no net loss' situation with regard to UKBAP/Section 41 habitats and species.

ODPM circular 06/05 (2005) Biodiversity and Geological Conservation – Statutory Obligations and Their Impact Within the Planning System

Provides guidance to Local Authorities on their obligations to biodiversity – particularly in relation to assessing planning applications and ensuring the adequacy of information.

BSI (2013) British Standards Institute BS 42020:2013 Biodiversity – Code of Practice for Planning and Development

Provides a standard for the biodiversity assessment and development industries and decision makers such as Local Planning Authorities to work to.