

Bourne Woodlands Forest Plan

2024 – 2034



FSC® C123214

Forestry England
forests and woodlands
have been certified in
accordance with the UK
Woodland Assurance
Standard (UKWAS)





Pic.1: A view along part of the forest path network in Bourne Wood

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Summary

This Forest Plan (FP) summarises proposals by Forestry England for the management of the Bourne Woodlands in South Kesteven, Lincolnshire. The Bourne Woodlands FP area totals 717.5ha and comprises the majorities of Bourne Wood (282ha) and Temple Wood (242.5ha) and the entireties of Gunborough Wood (43.8ha), Spring Wood (48.5ha) and Callan's Lane Wood (100.7ha). Tenure is split 77% freehold and 23% leasehold (see *Location, Tenure and Access Map*, p.15).

The Bourne Woodlands fall wholly within the Kesteven Uplands National Character Area* (NCA) which is characterised by a gently rolling, mixed farming landscape. The scattered woodlands within this area are significant; including semi-natural, ancient and commercial forests. The elevation of the Bourne Woodlands within the undulating landform ranges from 22m (in Bourne Wood) to 76m (in Temple Wood), all woodlands being prominent in the low lying landscape and visible from respective local roads (see *Survey Maps*, p.18&19).

The geology of the area is varied, giving rise to a range of soil types from limestone through to heavy clays. The main soil types of the Bourne Woodlands are pelo-stagnogley and argillic gley (see *Designations and Soil Types Maps*, p.16&17), both of which are poorly draining. Protecting water quality and improving water availability are important issues in the NCA, since there is a principal aquifer in the underlying limestone and the Kesteven Uplands form a watershed between multiple adjacent catchments. The forests themselves are predominantly Plantations on Ancient Woodland Sites (PAWS)* and Ancient* and Semi-Natural* Woodland (ASNW), plus a mix of broadleaved and coniferous secondary* woodland.

The primary management objectives for the Bourne Woodlands are to:

- Continue the restoration of PAWS, and maintain and improve the ecological value of the lowland mixed deciduous woodland priority habitat.
- Use Lower Impact Silvicultural Systems* (LISS) where appropriate to protect soils and water.
- Sustainably grow commercial timber using species and systems resilient to the impacts of pests, diseases and climate change to maximise yields and prioritise timber quality.
- Conserve the ecological and heritage features and maintain existing public access.



Pic.2: One of the ponds in Bourne Wood

Application for Forest Plan Approval

Proposed felling and restocking summary for 10 year FP period:

i Plan Area Identification:

Forest District: Central Forest District
 Beat: North Northants Beat
 Name: Bourne Woodlands Forest Plan
 Nearest Town: Bourne

Grid References: Bourne Wood TF 0774 2113
 Gunborough Wood TF 0679 2325
 Spring Wood TF 0650 2416
 Callan's Lane Wood TF 0626 2626
 Temple Wood TF 0566 2869

Local Planning Authorities: South Kesteven

	Conifers	Broadleaves	Total
Clearfelling	21.5ha	35.2ha	56.7ha
Restocking	0.7ha	63.7ha	64.4ha
Regeneration Felling (LISS*)	0ha	Up to 214.4ha	Up to 214.4ha

The above figures refer to the gross area and exclude routine thinning operations.

Restocking includes both planting and natural regeneration, and incorporates the restock of two felled coupes in addition to the planned clearfalls.

Forest Plan maps are attached

In addition to the proposed clearfelling, 536ha will be managed using LISS. This will be done through the removal of small groups of trees, removing no more than 40% of the stems within any single management unit/compartment over the plan period. This operation will provide sufficient light to boost growth of the understorey and ground flora, allow adequate space for the development of crowns and stem form for quality timber and accelerate individual tree growth; and will also be supported, where necessary, by planting.

ii Designations:

NCA* Kesteven Uplands (Profile 75)

Ancient Woodland* and PAWS*

iii Date of Commencement of Plan: On approval.

All of our forests and woodlands are certified to the Forest Stewardship Council® (FSC®) licence code FSC-C123214 and the Programme for the Endorsement of Forest Certification (PEFC) licence code SA-PEFC-FM-006972 standards.

All Forestry England forests and woods are independently certified as sustainably managed, to continue to benefit future generations.

Bourne Woodlands FP approved on 26/03/24



Forestry England forests and woodlands have been certified in accordance with the UK Woodland Assurance Standard (UKWAS)



1. What are Forest Plans?

Forest Plans are produced by us, Forestry England, as a means of communicating our management intentions to a range of stakeholders. They aim to fulfil a number of objectives:

- To provide descriptions of our woodlands to show what they are like now.
- To show what we intend the woodlands to look like in the future.
- To detail our felling and restocking management proposals for the first 10 years in order to obtain approval from the statutory regulators.

We use some technical words and phrases in the text because they best describe what we are doing. These technical words are identified throughout the plan with an asterisk * and their meaning shown in a glossary (see *Appendix I*, p.12-14).

A FP is a 'felling and restocking' plan and is written at a landscape scale. It does not set out the detailed yearly management operations for each small area in a wood, known as a coupe*. It is not possible to say in which year a particular operation will take place, but we can say in which five year period it should happen. Operational Plans* are written by the Beat Forester before work is undertaken. These plans outline the site specific features and constraints, and the measures in place to account for these during the work. This FP does not deal with the specific management of recreation, ecological or archaeological features. Planning for these elements follows a different management cycle and process.

Terms of Reference (see p.11) set out Forestry England's management objectives for the plan area, how these relate to national and district policies, and how these will be monitored.

All tree felling in the UK is regulated and a licence is required before trees can be felled. The scale of tree felling in Central England Forest District is such that the FP is the best mechanism for applying for this licence. Responsibility for checking that the plan meets all the relevant standards and statutes lies with the Forestry Commission. If all the criteria are met, full approval is given for the management operations in the first 10 years and outline approval for the medium term vision (10 years to 50 years).

2. Review of Previous Forest Plans

The Bourne Woodlands FP area was previously covered by separate plans for each wood:

- Bourne and Auster
- Spring and Gunborough
- Callan's Lane
- Temple

These individual FPs were originally approved in May 2006 and subsequently extended to July 2021. Given the close alignment of objectives across these woodlands it is appropriate to combine their management under a single FP.

The former plans were written against different criteria from recent FPs. Whilst they provide a valuable summary of the ecological and historical records, they are light on detail regarding specific management objectives. This limits the reviewable elements of these former plans for the Bourne Woodlands FP area.

• Forest Operations:

A total of 10.2ha of woodland has been clearfelled since 2006. This is in addition to regular thinning operations and LISS* interventions during this time period. Of this area, 2.5ha has been restocked by natural regeneration and 7.7ha is awaiting planting (having been felled within the last two years under felling licences).

• PAWS* Restoration:

The gradual reduction in conifers and reversion to broadleaf species has been ongoing since 2006. To date, 53% of PAWS has now been restored to over 80% native species cover. *Fig. 1* displays this progress since 2013.

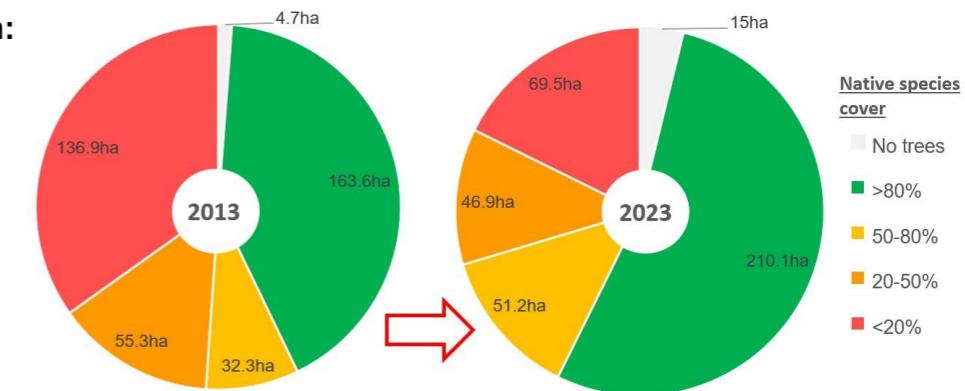


Fig.1: Bourne Woodlands PAWS area classified by native species cover

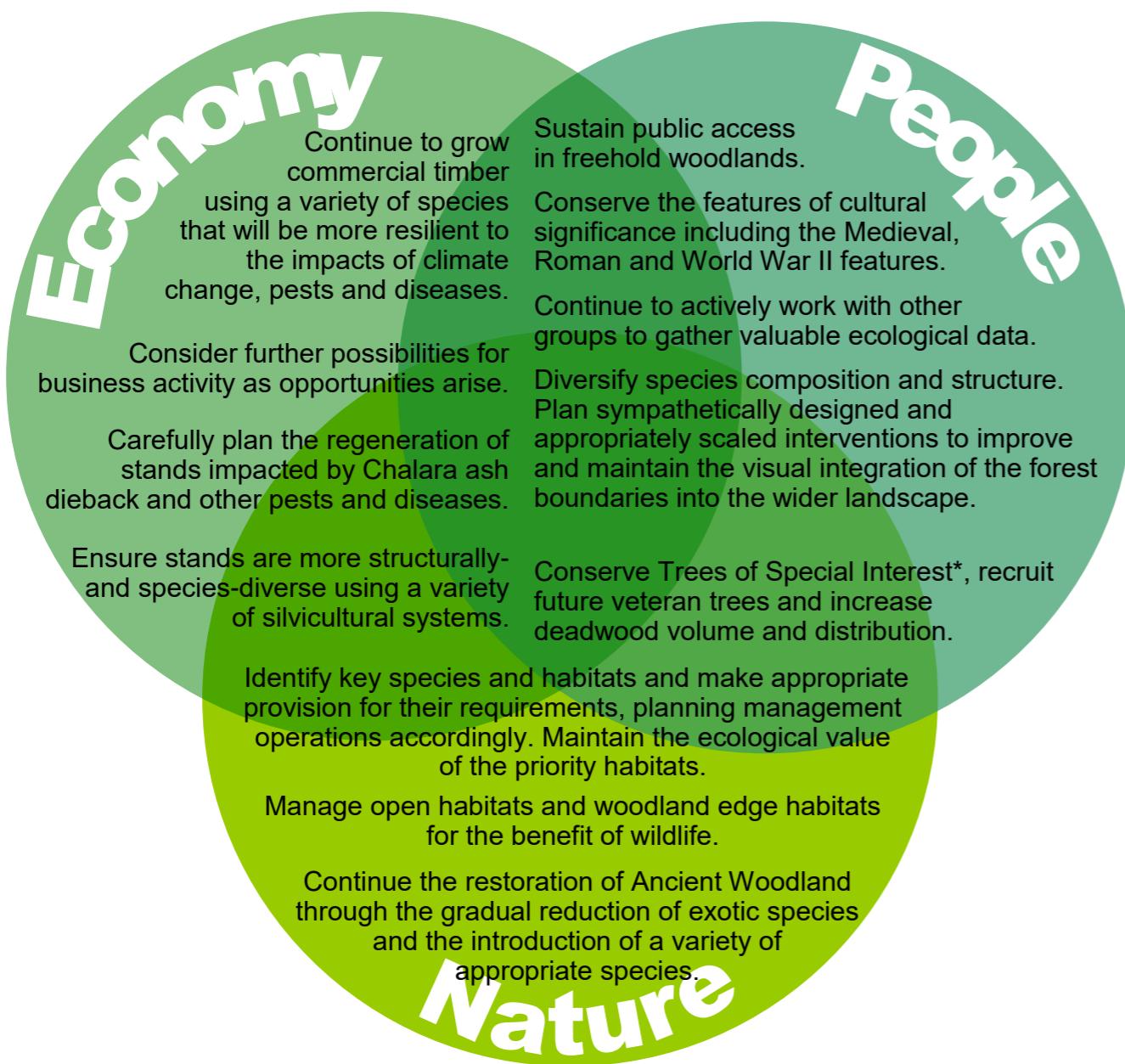
• Chalara Ash Dieback*:

European ash is the second largest component in the Bourne Woodlands, representing 30% of the total species mix (see *Fig.2*, p.7). Chalara ash dieback is present throughout these stands and is already having a major adverse impact on woodland cover within the Bourne Woods. Previous FPs did not consider ash dieback since the disease was not confirmed in the UK until 2012.

3. Management Objectives

Forestry England's mandate is to protect and expand England's forests and woodlands and increase their value to society and the environment. Our mission is to connect everyone with the nation's forests by creating and caring for our forests for people to enjoy, wildlife to flourish and businesses to grow.

In the Bourne Woodlands FP area we aim to achieve the following management objectives:



3.1 Nature

Ancient* and native woodlands support high levels of biodiversity and host many priority species. They also deliver important ecosystem services including water and soil regulation, carbon storage, and support for people's wellbeing and cultural values. Bourne Wood itself features fragments of ancient wood: combinations of seminatural communities including mixed wych elm wood, limewood, oakwood with hazel, and mixed hazelwood. Over 80% of the Bourne Woodlands FP area is classified as Ancient Woodland (See *Fig.6 & Designations and Soil Type Maps*, p.16&17). Continuing to protect and restore Ancient Woodland is a priority for this plan.

The Bourne Woodlands host a number of important species. These include great crested newt and Liesler's bats. The woodlands offer an excellent habitat for birds. 49 bird species have been recorded in the woodlands, included long-eared owl, crossbill, lesser spotted woodpecker, nightingale, nuthatch and six species of warbler. Other notable birds include hobby and peregrine.



Pic.3: Hobby



4



5

Pic.4: Hairy Dragonfly
Pic. 5: Red-eyed Damselfly

Another priority for Forestry England is the management of open land and associated woodland edge habitat for the benefit of wildlife. 8.2% of the Bourne Woodlands is open space (see *Current Species Maps*, p.20&21), providing excellent habitat for many species of Lepidoptera and Odonata. Remarkable butterfly species include white admiral, purple hairstreak, white-letter hairstreak, brown argus and Essex skipper. 295 species of moth have been recorded in Bourne Wood, plus 15 dragonfly and damselfly species including hairy dragonfly and red-eyed damselfly.

There are many notable plant species, including greater butterfly, common spotted and early purple orchid; adder's-tongue, wood and lady fern; broad-leaved helleborine; Devil's-bit scabious; moschatel; herb paris; common twayblade; sanicle; thin-spiked wood sedge; nettle-leaved bellflower; greater burnet saxifrage and narrow-leaved everlasting-pea. Diverse flora is important in its own right, but the botanically-rich rides, glades and woodland edges in the Bourne Woodlands also provide valuable nectar sources for invertebrate populations. Ride widening is anticipated during the FP period to expand and enhance this open habitat and improve pest management.

There are currently 88 Trees of Special Interest* (TSI) recorded throughout the Bourne Woodlands, which are to be retained for generations to come. We will continue to record TSI and future TSI as they are identified, so they can be conserved and protected during management operations. These ancient, veteran and notable trees are highly important for biodiversity and an irreplaceable part of our natural heritage, providing unique ecological conditions and supporting entire ecosystems.

A previous fungi survey recorded 104 species in Bourne Wood. Species identified included yellow fan, humpback inkcap, fenugreek stalkball, common rustgill (found on oak but normally associated with conifers), golden scalycap and green elfcup.

As previously mentioned, Chalara ash dieback* is having a significant adverse impact in the Bourne Woodlands. The majority of ash is heavily infected and already exhibits significant canopy decline. Proactive removal of ash in the vicinity of roads, carparks and the most popular trails has already commenced to mitigate the risk from falling dead trees and branches. Ash dieback fundamentally threatens woodland cover in ash-dominated stands (see *Current Species Maps*, p.20&21). These stands will be managed using LISS* or clearfell as appropriate, using both restock and natural regeneration to increase the proportion of other species into the future. Individual ash trees displaying tolerance and potential resistance may be retained where safe to do so. Again, where appropriate, dead and dying trees may be retained to increase ecologically-valuable deadwood habitat. Oak stands are also under threat; being impacted by chronic oak decline* and with examples of acute oak decline* in Temple Wood.

Other challenges for the woodlands include the high incidence of grey squirrel and deer, which are proactively managed by Forestry England. The appetite of non-native grey squirrels for bark stripping increases the susceptibility of young trees (especially beech, oak, sycamore and birch) to secondary infections and can often lead to tree death. Further adverse effects include stunted tree development and inhibited form, plus reduced carbon-

capture potential and yield. Fallow and muntjac deer move freely across the region which, without a coordinated approach by all local landowners, dilutes the direct benefit of Forestry England's deer management. We would welcome the opportunity to engage in a broader local deer strategy. Browsing pressure means most restock coupes will likely need fencing except for the least-palatable species. Deer damage is not restricted to young trees and also impacts ground flora (a recent ecological survey in Temple Wood found deer-browsed orchids prior to flowering).

Wood small-reed (*Calamagrostis epigejos*) poses an additional complication during establishment by rapidly covering felled areas (plus those badly affected by ash dieback canopy loss) and out-competing regenerating and newly-planted tree saplings.

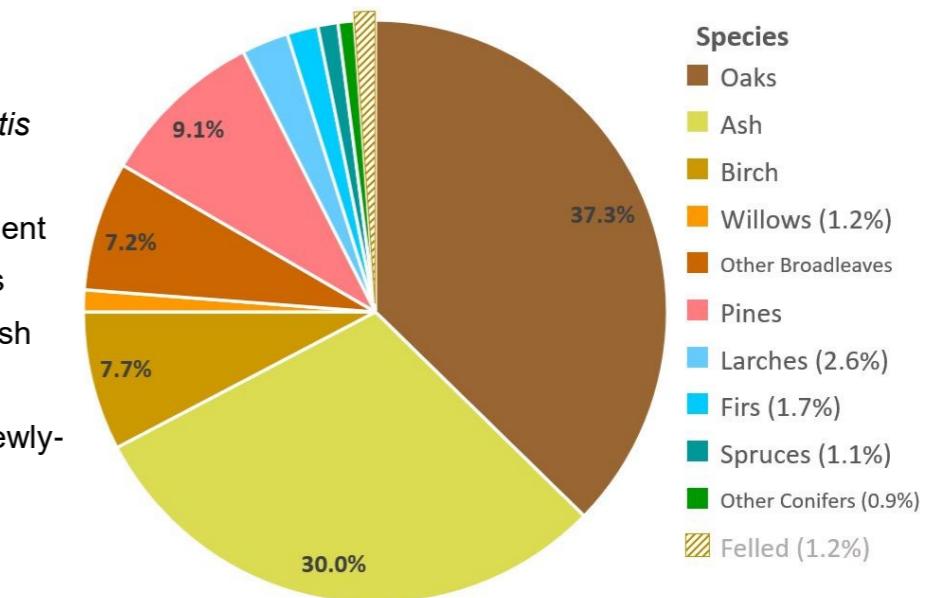


Fig.2: Current species mix the Bourne Woodlands

83% of the wooded area in the Bourne Woodlands is broadleaf (Fig.2); this being dominated by oak (37%) and ash (30%). Fig.3 below shows the current structural diversity. There is a significant peak of broadleaves in the 81-90yrs age class, highlighting a need to restructure these stands. A regular programme of LISS* interventions such as small-coupe felling* will maintain timber production during the next 50+ years and improve the spread of younger broadleaves through restocking and regeneration. The majority of coniferous areas are PAWS*, so the phased felling schedule will support a gradual reduction in the overall coniferous component as these coupes are harvested and restored to predominantly broadleaved woodland.



Fig.3: Current structural diversity

Timber production will be managed on a sustainable basis, improving future revenues by focussing on quality broadleaf and conifer sawlogs in both ancient* and secondary* woodland areas respectively, and by maximising yield. Emerging markets, such as biomass on shorter 15-20yr rotations, will also be considered for suitable crops. During restock, Forestry England will continue to introduce compatible species and species-mixes into the Bourne Woodlands to improve resilience against future pests and diseases and to ensure the woodland habitats can be adapted to the rapid climate change we are now seeing. This will enable us to continue to provide sustainable timber resources needed by society while maintaining other woodland ecosystem services*.

Table 1: Timber volumes and clearfell areas

Forecast Period	Average annual timber volume (m ³)	Average annual clearfell area (ha)
2024-2026	1105	4.1
2027-2031	971	5.4
2032-2036	937	4.8
2037-2041	898	3.9
2042-2046	696	4.3
2047-2051	599	4.3

Table 1 displays the predicted average annual timber production (from clearfelling, selective felling and thinning combined) alongside the average annual clearfell area for the next six five-year periods. The annual combined volumes are split approximately 67% from broadleaf & 33% from conifer. In response to ash dieback Forestry England will target ash during thinning and bring forward the felling of the worst affected ash-dominated stands.

Any opportunities to engage with third party partners or businesses to generate secondary income sources will be considered where there is alignment with wider FP objectives.

3.3 People

Access to the Bourne Woodlands is mixed and dependant on tenure: the freehold woodlands (most of Bourne, Callan's Lane and Temple Wood) are dedicated open access under CRoW (Countryside and Rights of Way Act, 2000), whereas there is no public access to the leasehold woodlands beyond the public footpaths (see *Location, Tenure and Public Access Map*, p.15 & *Survey Maps*, p.18&19). Bourne Wood is the most popular site for locals and other visitors alike, who use the large carpark, forest roads and network of informal paths to enjoy the woods.

Forestry England values and will continue to engage with groups who share our interest in conserving the ecological and cultural value of the Bourne Woodlands through our permissions system. For example the Bourne Community Orchard managed by the Friends of Bourne Wood.

The Kesteven Uplands NCA has a rich historic environment with parts of the Bourne Woodlands able to be traced back to the 1088 Domesday Survey. Accordingly there are many heritage features within the Bourne Woodlands FP area such as woodbanks and banked enclosures, preserved bank and ditch systems along parish boundaries, ridge and furrow, trackways and more recently WWII features. The bomb store bunds of RAF Folkingham are still visible in Temple Wood. There is also a Roman ride passing through Callan's Lane Wood and an unscheduled medieval moated enclosure in the south-west corner.

All known features of historic and cultural significance are recorded (see *Survey Maps*, p.18&19) to ensure forest operations in their vicinity can be conducted sensitively to preserve and protect them. Similarly any new findings will also be recorded.

4. Harvesting Operations

A range of silvicultural systems* will be adopted in the Bourne Woodlands, designed to create ideal conditions to establish the next rotation of trees (see *Fig.4 overleaf* & *Silvicultural Systems Maps*, p.26&27).

Over 21% of the wooded area will still be managed under a traditional clearfell and restocking programme during this rotation, providing cost-effective timber production and transitional open space for wildlife. This clearfell proportion will reduce over future rotations as PAWS* areas are restored to native species which will then be managed predominantly through LISS*. A total of 56ha of clearfell will be undertaken during the 10 year FP approval period comprising 20 coupes throughout the woodland area (see *Felling Phases Maps*, p.28-32). These felling coupes involve PAWS* restoration, short rotation biomass production and management for ash dieback.

The management of broadleaf stands will be predominantly through LISS* group felling systems (group selection and small coupe felling), wherein small clearings of up to 2ha are created to restructure the crops and diversify their age- and species-composition. The size and shape of the clearings will be designed around the light requirements of the trees to become established (considering aspect* and shade cast by adjacent stands), helping create optimum growing conditions. For the benefit of wildlife larger clearings will be elongated to maximise edge habitat. It is hoped the use of LISS will also offer greater protection to soils and ground flora by maintaining canopy cover; thus reducing the likely impacts of extreme weather events and variation in micro climates throughout the day and between seasons.

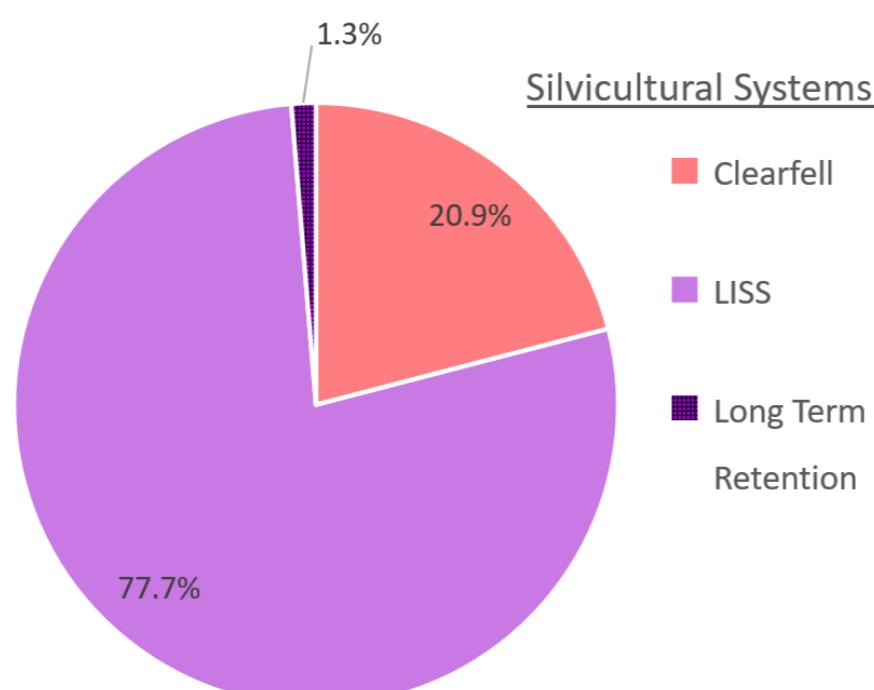


Fig.4: Silvicultural systems by forested area

In addition to the aforementioned felling programme, thinning assessments will be made every 5 years and thinning operations planned accordingly. Managing stand density and light availability through thinning is essential for each tree's crown and root system to develop fully, helping ensure the trees remain stable in the wind as they mature. Thinning operations are also an important source of timber and timber revenue.

As part of our Operational Planning* process, all forest operations are carefully considered beforehand and are conducted sensitively regarding the ecology, heritage, and constraints of the site. Operations will be carried out in line with all relevant regulations and best-practice guidance as summarised in the UKWAS*. Forestry operations may take place at any time of the year. This is necessary to strike a balance between the greatly increased risks of damage to flora and increased soil compaction associated with working during the wetter winter months (the gley soils of the Bourne Woodlands are prone to waterlogging) and the need to minimise disturbance to designated habitats, species and breeding birds.

5. Intended Landuse

The species composition within the Bourne Woodlands is currently split approximately 83% broadleaves to 16% conifers by area (see *Fig.5 below*). PAWS* restoration during the next rotation will result in broadleaf woodland increasing to an estimated 99% of the forested area. To increase forest-scale resilience to current and future pests, diseases and climatic changes we aim to introduce a wider range of tree species during restock where appropriate. This forms part of our portfolio approach to restock, which also includes accepting natural regeneration and using planting stock of local provenance and/or from 2 to 5 degrees south where possible.

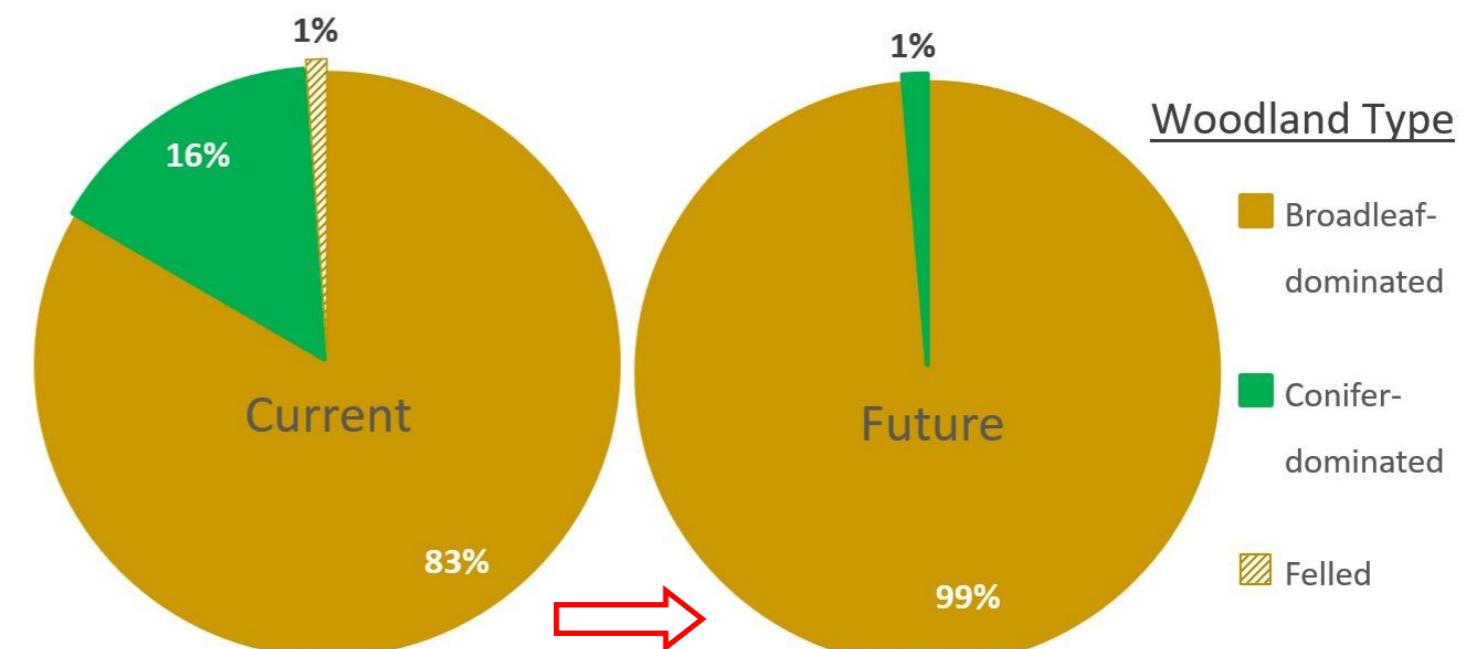
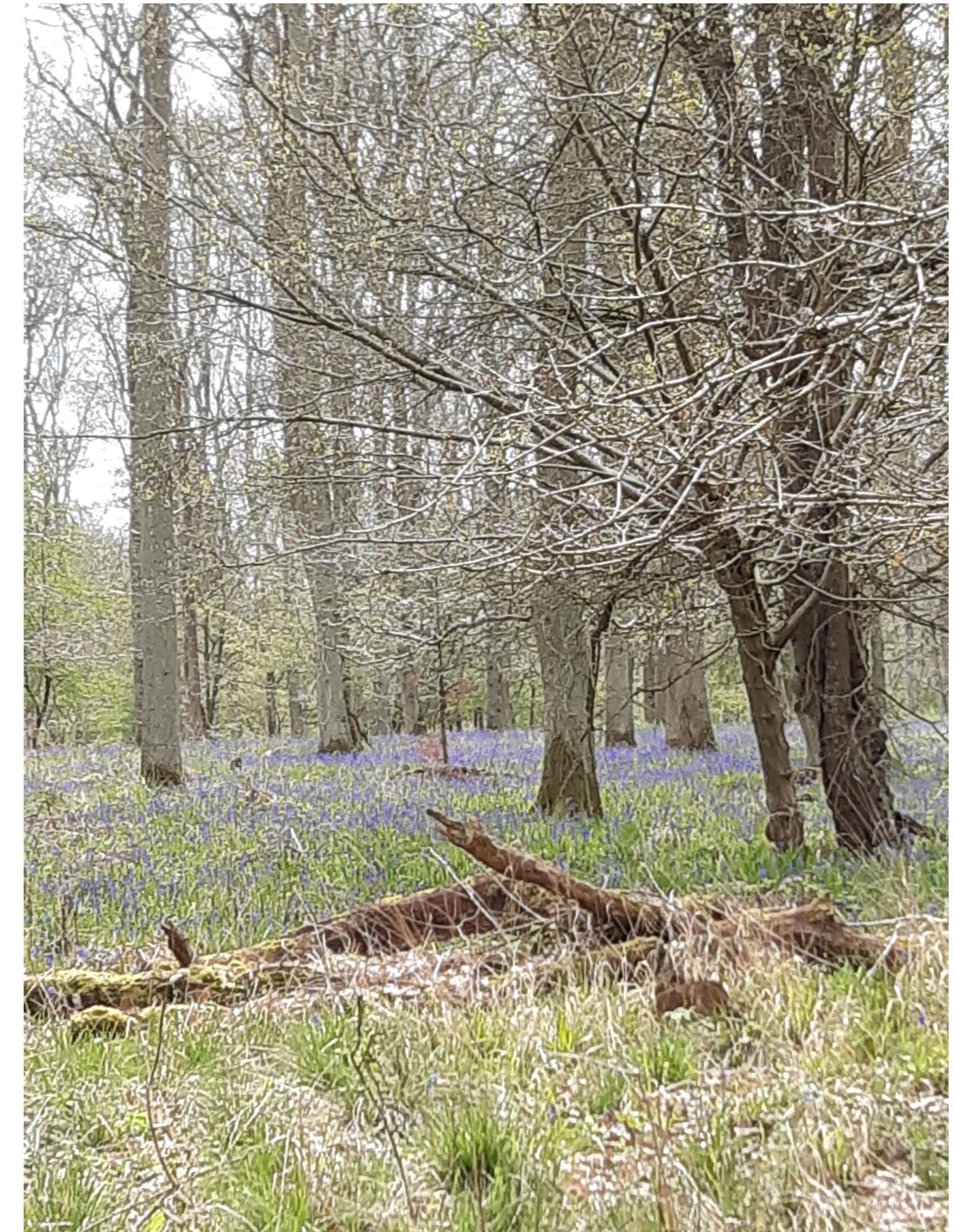


Fig.5: Species change over the next rotation

Ash stands will be restocked with alternative broadleaved species (through natural regeneration and planting), enhancing the woodlands' resilience and adaptive capacity in the wake of ash dieback. Similarly opportunities to increase the species diversity of oak-dominated areas will be taken following LISS interventions in response to chronic oak decline* and acute oak decline*.

6. Contribution towards Forestry England Central District's commitments to UKWAS and UKFS from the Bourne Woodlands FP

	Forest Plan Area (ha)	Forest Plan Percentage	Forest District Area (ha)	Forest District Percentage
Total Area	717.5	100%	27,144	100%
Total Wooded Area	658.8	91.8%	23,909	88%
Open Habitat (>10%)	58.7	8.2%	3,235	12%
Natural Reserves* - Plantation (1%)	0	0%	251	1.57%
Natural Reserves - Semi Natural (5%)	0	0%	381	4.81%
Long-term Retentions* & LISS (>1%)	557.3	77.7%	14,637	54%
Area of Conservation Value (>15%) <i>including designations, Ancient Woodland*, PAWS, * Natural Reserves, Long Term Retentions & LISS</i>	710.8	99.1%	17,582	64.9%



Pic.6: Spring in Temple Wood

7. Terms of Reference

National Strategy	District Strategy	Forest Plan Objective	Monitoring
Economy: <p>1) Maintain the land within our stewardship under UKWAS certification, 2) Improve the economic resilience of our woods and forests, 3) Encourage and support business activity on and around the Estate.</p>	<p>1) Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements. 2) We will use the opportunity presented by additional, unscheduled clearfelling as a result of disease control to accelerate the diversification of both conifer and broadleaf species appropriate to each local area and site type, and in some areas trialling species which may not have been previously planted in forest conditions, using a range of silvicultural systems.</p>	<ul style="list-style-type: none"> Continue to grow commercial timber using a variety of species that will be more resilient to the impacts of climate change, pests and diseases to maximise yields. Use a variety of silvicultural systems based around the light requirements of the trees to be established. Carefully plan the regeneration of stands impacted by Chalara ash dieback and other pests and diseases. Ensure stands are more structurally diverse, actively managing the woodland to promote age- and species-diversity. Consider further possibilities for business activity as opportunities arise. 	<ul style="list-style-type: none"> Forestry operations and restocking will be recorded in the Forestry England sub-compartment database and monitored at 5 year mid-term review and 10 year renewal. Record the silvicultural systems used in the Forestry England GIS system. Record the changes in species composition in the Forestry England sub-compartment database. Monitor as part of the 10 year forest plan renewal. No monitoring required.
Nature: <p>1) Improve the resilience of the natural environment of the Estate under our Stewardship, 2) Realise the potential of the Public Forest Estate for nature and wildlife, 3) Maintain and improve the cultural and heritage value of the Estate.</p>	<p>1) Adapting more sensitive timber harvesting arrangements and adopting recent FC guidance on forest operations to reduce the impact of forest operations on soils and ground vegetation on sensitive sites. 2) Contributing to and undertaking control programmes to limit the impact of deer and other species on woodland habitats in order to reduce the adverse impacts of grazing and disturbance to native habitats and their flora and Fauna 3) Where possible, work with interested parties to explore ways to maintain or improve features of cultural or heritage value to the local community.</p>	<ul style="list-style-type: none"> Continue the restoration of Ancient Woodland through the gradual reduction of exotic species and the introduction of a variety of appropriate species that will be better suited to the impacts of climate change, pests and disease. Identify key species and habitats and make appropriate provision for their requirements. Maintain the ecological value of the priority habitats. Management operations will be planned to consider the habitat requirements of European Protected Species associated with Forestry England's land. Manage open and woodland edge habitats for the benefit of flora and fauna. Identify existing locations of TSI and demonstrate appropriate management to recruit future veteran trees and increase the volume and distribution of deadwood. 	<ul style="list-style-type: none"> Ancient Woodland restoration will be monitored as part of the 10 year forest plan renewal. Monitored as part of the operational planning process. Monitored as part of the operational planning process. Monitored as part of the operational planning process. Existing and future TSI to be recorded on the conservation database, reviewed as part of operational planning process, at the 5 year mid-term review and as part of the 10 year forest plan renewal.
People: <p>1) Encourage communities to become involved in the Estate, its management and direction, 2) Provide high quality woodland-based recreational opportunities for people and business, 3) Enable everyone, everywhere to connect with the nations' trees and forests so that they understand their importance and act positively to safeguard forests for the future.</p>	<p>1) Provide safe and accessible woodlands. 2) Offering opportunities for quiet recreation and adventurous activities, to enable people to experience the potential health and wellbeing benefits. 3) Developing partnership with private businesses and public bodies to expand and improve recreational opportunities across the estate. 4) Creating a wide variety of opportunities for schools, groups, families and individuals to engage with and learn about trees and forests in accordance with the National and District Strategies. 5) Encouraging third party environmental educators and other partners to offer learning opportunities on the public forest estate.</p>	<ul style="list-style-type: none"> Diversify species composition and structure. Plan sympathetically designed and appropriately scaled interventions to improve and maintain the visual integration of the forest boundaries into the wider landscape. Conserve the features of cultural significance including the Medieval, Roman and World War II features. Sustain informal public access in all freehold areas. Continue to actively work closely with local volunteer groups. 	<ul style="list-style-type: none"> Species composition, age structure and coupe design reviewed at 5 year mid-term review and as part of the 10 year forest plan renewal. Monitored as part of the operational planning process. No monitoring required. No monitoring required.



Appendix I

Glossary

Acute Oak Decline

Acute oak decline is a complex syndrome in which several damaging agents interact and cause a serious decline in tree condition, and can kill oak trees within four to six years of the onset of symptoms. The agents can be abiotic or biotic; the latter often include insects and fungi which are not capable of invading healthy trees but which can be very destructive to stressed oaks. Symptoms include characteristic weeping cankers/lesions in the bark.

Ancient Woodland

Areas of semi-natural native woodland that have had continuous woodland cover since at least 1600. They are particularly rich in biodiversity and this is often notable in their characteristic ground flora.

Aspect

The direction a slope faces. This can have a strong influence on the microclimate, ground vegetation, soils and hydrology.

Canopy

The mass of foliage and branches formed collectively by the crowns of trees. The shade it casts has a strong influence on the plants, trees and shrubs beneath it.

Carr Woodland

A wet woodland area, usually dominated by willow, birch and alder species.

Chalara Ash Dieback

Ash dieback is a highly destructive fungus killing native ash trees across the UK. Young and coppiced trees will die quickly once infected, more mature ash may survive for a number of years once infected. Causes the timber to lose strength, become brittle and trees to start dropping limbs.

Chronic Oak Decline

Chronic oak decline is a complex disorder of oak trees which several damaging agents interact either simultaneously or sequentially to bring about a serious, long term decline in tree health and condition. It differs from acute oak decline (above), which causes a much faster, and usually fatal, decline in tree health.

Clearfell System

Cutting down of an area of woodland (if it is within a larger area of woodland it is typically a felling greater than 0.25 ha). Sometimes scattered or small clumps of trees may be left standing within the felled area.

Climax Species

Tree species that will eventually dominate the forest canopy, maximising their exposure to sunlight and out-competing other species.

Coppice

Coppicing is a Lower Impact Silvicultural System (LISS) based on regeneration by regrowth from cut stumps (coppice stools). The same stool is used through several cycles of cutting and regrowth. Coppice can also refer to an area of woodland in which the trees or shrubs are periodically cut back to ground level to stimulate growth and provide wood products. 'Coppice with standards' refers to coppice with a scatter of trees grown on a long rotation to produce larger-sized timber and to regenerate new seedlings to replace worn out stools.

Coups

Areas of forest that have been or will be managed together.

Dothistroma Needle Blight (DNB)

DNB is a fungal disease affecting mainly pine species. The fungus affects the needles of the infected tree, which are eventually shed. This can continue year on year and gradually weaken the tree, significantly reducing timber yields. It can also eventually lead to mortality.

Ecological Site Classification (ESC)

ESC is an online tool developed by Forest Research to help a forester choose tree species that are suited to a specific site. It models how well each species is likely to grow using information on climate and soil properties. It can also be used to forecast how climate change may impact suitability.

Ecosystem

An ecosystem is an interconnected network formed of all the living things in a given area (plants, animals and organisms) and their interactions with each other and their non-living environments (eg: weather, earth, sun, soil & climate).

Ecosystem Services

Ecosystem services are the goods and services that people depend on that arise from ecosystems. They are usually categorised into Provisioning (eg: timber, water, food production), Regulating (eg: regulation of climate and diseases), Cultural (eg: recreational opportunities, aesthetic value) and Supporting services that underpin these (eg: crop pollination).

England Trees Action Plan

Sets out the Government's long-term vision for the treescape it wants to see in England by 2050 and beyond.

Forestry England

Forestry England is the executive agency of the Forestry Commission that is responsible for managing the Nation's Forests in England.

Forests and Water Guidelines

One of seven sets of guidelines that support the United Kingdom Forestry Standard (UKFS). The UKFS and guidelines outline the context for forestry in the UK; set out the UK Government's approach to sustainable forest management; define standards and requirements; and provide a basis for regulation and monitoring, including national and international reporting.

Forest Plan (FP)

An FP is primarily a landscape-scale felling and restocking plan. It provides a holistic, long-term approach to planning and forest design, detailing felling operations over a 10 year period for the purposes of licencing felling and outlining proposals over the next 50 years. FPs are reviewed every 5 years and redrawn and approved every 10 years.

Forest Stewardship Council® (FSC®)

An internationally recognised body made up of non-government organisations promoting sustainable forest management to the forest industry and consumers.

Group Selection

A method of managing irregular stands in which regeneration is achieved by felling trees in small groups. Group selection involves felling groups of trees (generally <0.25 ha per group)

Historic Environment

The physical remains of every period of human development starting from 450,000 years ago and including earthworks, buried remains, structures and buildings.

Landscape Character

England is renowned for its rich, diverse and beautiful landscapes which have their own distinct local characters. These have been shaped over many thousands of years by natural influences such as soil and landform and by generations of human activity.

Long Term Retention

Individual, stable stands and clumps of trees retained for environmental benefit significantly beyond their normal economic age or size.

Glossary (continued...)

Lower Impact Silvicultural Systems (LISS)

Silvicultural systems including group selection, shelterwood or under-planting, small coupe felling, coppice or coppice with standards, minimum intervention and single tree selection systems which are suitable for windfirm conifer woodlands and most broadleaved woodlands.

Minimum Intervention

Management with no systematic felling or planting of trees. Operations normally permitted are fencing, control of exotic plant species and vertebrate pests, maintenance of paths and rides and safety work. Management only involves the basic inputs required to protect the woodland from external forces or ensure succession of key habitats and species.

the Nation's Forests

The woodlands managed by Forestry England. These include both freehold and leasehold land. (Previously referred to as the Public Forest Estate.)

National Character Area (NCA)

Broad divisions of landscape form the basic units of cohesive countryside character, on which strategies for both ecological and landscape issues can be based. There are 159 Character Areas, each of which is distinctive with a unique 'sense of place'.

National Nature Reserve (NNR)

NNRs were established to protect some of our most important habitats, species and geology, and to provide 'outdoor laboratories' for research. Most NNRs offer opportunities to the public to experience wildlife first hand and learn more about nature conservation.

Native

Native tree species colonised Britain without human assistance at the end of the last ice age, before the English Channel cut Britain off from mainland Europe.

Naturalised

Naturalised trees have colonised Britain since the land divide with mainland Europe and are growing and reproducing successfully within their natural climatic range without human intervention.

Natural Regeneration

The growth of new trees from seed found in the soil or cast from adjacent trees. Regeneration only occurs where suitable seed sources and conditions are present.

Natural Reserve

Natural Reserves are predominantly wooded, usually mature and intended to reach biological maturity. They are permanently identified and in locations which are of particularly high wild-life interest or potential. They are managed by minimum intervention unless alternative interventions have higher conservation or biodiversity value.

Nest Planting

Trees planted in small groups which are distributed across the restock site with remaining unplanted areas left to naturally regenerate. A useful way to introduce new species or provenances to a site.

Notifiable Disease

Some tree pests and diseases are notifiable, which means that, in England, they must be reported to the Forestry Commission or Animal & Plant Health Agency. Notifiable tree pests and diseases are typically those with the potential to cause greatest damage to our trees, woods and forests.

Open Grown Trees

Trees that have been given space to develop a large crown and natural shape. In comparison trees planted closely in a plantation managed for timber or biomass tend to have a more uniform shape.

Open Space

Areas within a forest without trees, such as glades, stream sides, grass or heathland, water bodies, rocky areas, roads and rides.

Operational Plans

Detailed site plans prepared in advance of all major forest operations providing guidance to Forestry England staff and contractors. They identify site constraints, opportunities and areas requiring special treatment or protection.

Phytophthora ramorum and *P. pluvialis*

P. ramorum is a very destructive pathogen affecting over 150 plant species, particularly larch trees. Some broadleaved plants (such as sweet chestnut and rhododendron) can also host *P. ramorum*. *P. pluvialis* was first recorded in the UK in 2021 and affects a range of species including Douglas fir and western hemlock.

Plantation on Ancient Woodland Site (PAWS)

Ancient Woodland areas where semi-natural woodland has been cleared and replaced by plantation, often including non-native species. PAWS sites can include both broadleaved and conifer woods and often retain remnant ancient woodland features like species-rich ground flora or undisturbed soils. Also known as Ancient Replanted Woodland.

Pollarding

A form of pruning where the upper branches of a tree are removed, promoting a dense head of foliage and branches. Cutting is usually around 2.4 metres above ground – the height that wild animals or domesticated stock could reach. Traditionally, trees were pollarded for fodder or for wood. Fodder pollards are generally pruned every two to six years, wood pollards at longer intervals, usually of eight to 15 years, to produce upright poles for eg: fence rails and posts.

Production Forecast

The projected volume of biomass that the forest will produce each year. Calculations are based on species, age, net area and yield class.

Public Rights of Way (PROW)

Access routes open to the public through legal designation. These include footpaths, by-ways and bridleways.

Respacing

Thinning of dense natural regeneration at a young age (generally when trees are 2-5m tall) to produce a more consistent crop, focus available resources on the remaining trees and promote good development.

Restocking

The establishment of trees where felling has taken place. Restocking may be achieved through natural regeneration, but it is more usually associated with replanting.

Ride

Forestry term for unsurfaced roads, paths and tracks within a woodland which provide access for management and other activities.

Scheduled Ancient Monument (SAM)

A scheduled monument is a site that is legally protected because of its historical importance.

Secondary Woodland

Woodland that has been established on land formerly used for another purpose (eg: as pasture, arable fields, quarries, etc.). Unlike ancient woodland it has not been continuously wooded in the past.

Seed Trees

Trees with good shape and growth rates chosen to produce seed for restocking. Seed trees need to be of an age and size where they produce fertile seeds in large quantities.

Glossary (continued...)

Selective Felling (Regeneration Felling)

Where individual trees of varying sizes are selected and removed from a stand. The whole stand is worked and the aim is to maintain full stocking of all tree sizes and ages, from seedlings to mature trees, in any one area.

Semi-natural woodland

Those woodlands which are comprised mainly of locally native trees and shrubs, and have some structural characteristics of natural woodland.

Shade Tolerant Species

Trees that have adapted to lower light levels and will regenerate and establish freely under the shade of the surrounding tree canopy, as opposed to light demanding species which require full sun/high light levels to establish and grow.

Silvicultural Systems

Silviculture is the process of tending, harvesting and regenerating a forest. Different patterns of felling and regeneration form distinct 'silvicultural systems'. Different systems may be suitable for different management objectives (eg: conservation in an ancient woodland vs timber production in a conifer plantation).

Site of Special Scientific Interest (SSSI)

A SSSI is a formal conservation designation. Usually, it describes an area that is of particular interest to science due to the rare species of fauna or flora it contains - or even important geological or physiographical features that may lie in its boundaries.

Small Coupe Felling

A small-scale clearfelling system. The system is imprecisely defined but coupes are typically up to 2 ha in extent, with the larger coupes elongated in shape so the edge effect is still high.

Special Area of Conservation (SAC)

SACs are protected areas in the UK designated under the Conservation of Habitats and Species Regulations 2017 (as amended) in England and Wales. These areas form an internationally important network of high-quality conservation sites that make a significant contribution to conserving Annex I and Annex II habitats and species.

Special Protection Area (SPA)

SPAs are protected areas selected to protect one or more rare, threatened or vulnerable bird species listed in Annex I of the Birds Directive, or specific regularly occurring migratory species. They form an internationally important network of high-quality conservation sites that make a significant contribution to conserving important habitats and species.

Strategic Plan

Forestry England's guide to the management of woodland in Central England Forest District. It divides the district into zones for the purpose of management and ensures forestry activities reflect the local ecological, social and cultural individuality of each woodland.

Strip Felling

Strip felling involves removal of some trees in rows, leaving strips of mature trees in place rather than clearfelling a crop in one operation. This creates space between remaining trees suitable for planting new trees (especially species that require sheltered growing conditions) and maintains woodland cover while new trees are established. The width of strips may vary and multiple strips are removed from one stand at a time.

Sub-compartments

Areas of forest that form a homogeneous crop in terms of age, species composition and condition. They may be split across several locations and their boundaries may change as the forest develops after felling and restocking.

Thinning

The removal of a proportion of trees in a forest after canopy closure, usually to promote growth and greater value in the remaining trees.

Trees of Special Interest (TSI)

Trees that are of interest biologically, aesthetically or culturally because of their age, or trees that are in the ancient stage of their life, or trees that are old relative to others of the same species. Also referred to as Veteran or Ancient trees.

UK Forestry Standard (UKFS)

Outlines the Government's criteria and standards for the sustainable management of forests in the UK.

UK Woodland Assurance Standard (UKWAS)

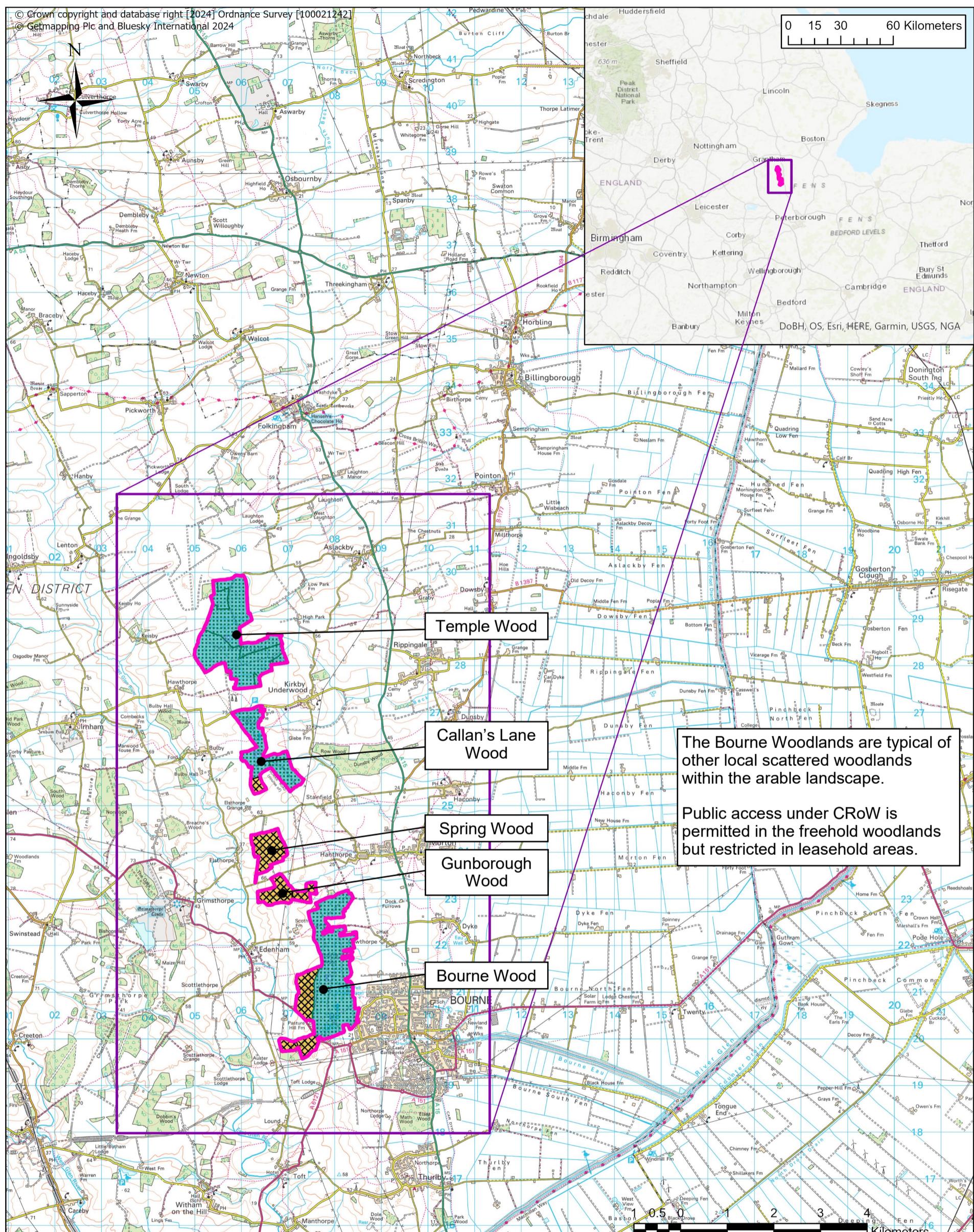
A voluntary scheme for the independent assessment of sustainable forest management in the UK. The Scheme has been developed by a partnership of forestry and environmental organisations in response to growing consumer demand for timber products from sustainably managed forests.

Understorey Woodland Species

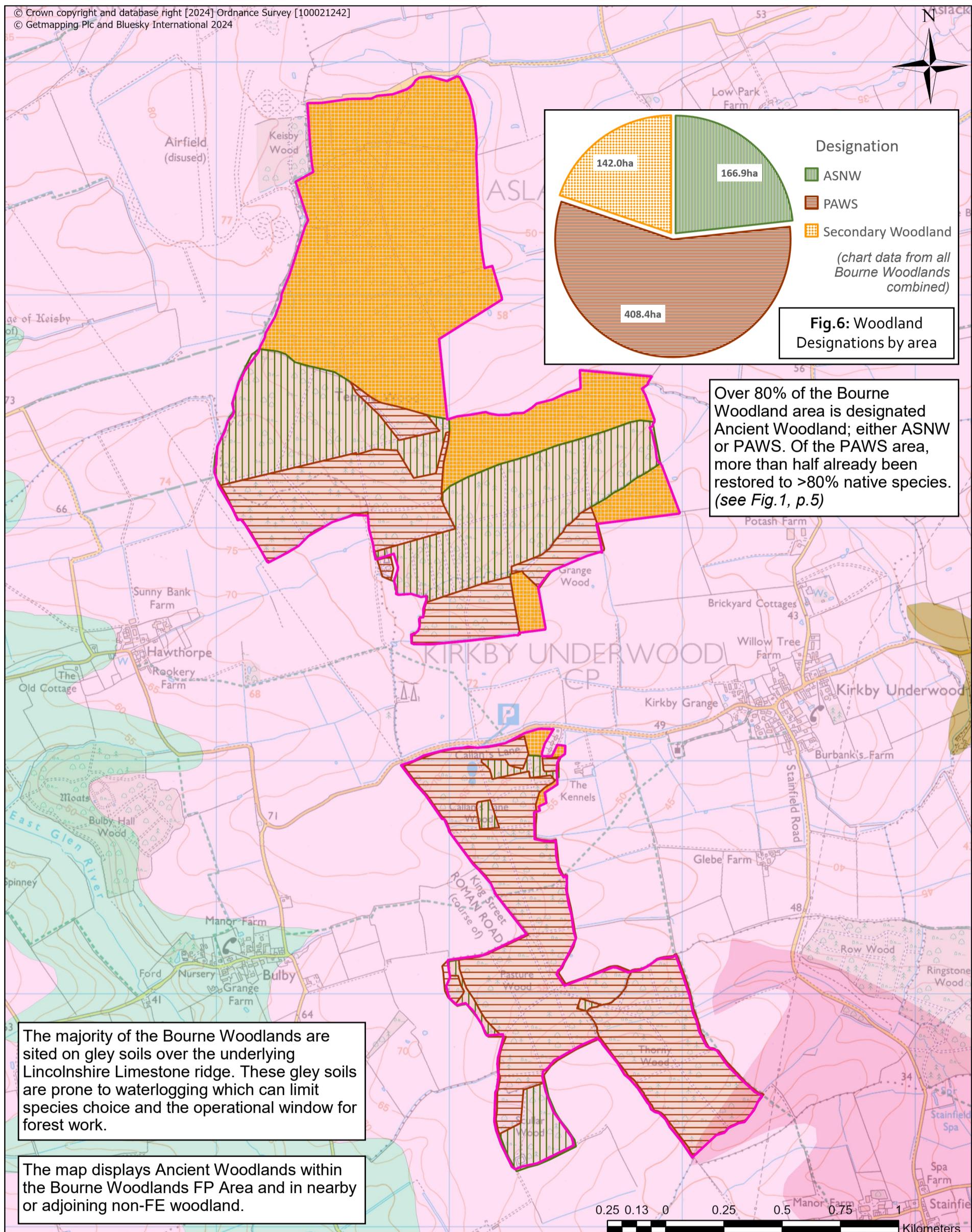
Minor tree species that live under top canopy trees or are 'pioneer' species that arrive in clearings before climax species become established. Once the overstorey is established understorey species are more common on woodland edges and clearings where light levels are higher.

Yield Class

Yield class is a measure of the growth rate of a tree crop on a given site. It describes the maximum average volume increase that a particular crop can achieve on 1 ha of land each year. For example, a crop capable of a maximum annual growth of 14 m³ per hectare has a yield class of 14. Yield Class varies depending on factors including the species, how it is managed and local site conditions.



Bourne Woodlands Forest Plan 2024		Bourne Woodlands FP Area Access	
<u>Location, Tenure</u>	<input type="checkbox"/>	Dedicated open access	 Forestry England
<u>and Public Access Map</u>	<input type="checkbox"/>	No public access	
Date: January 2024	FE Ownership Status		
Main map scale @ A3: 1:75,000	Freehold	 FSC www.fsc.org FSC® C123214	Forestry England forests and woodlands have been certified in accordance with the UK Woodland Assurance Standard (UKWAS)
	Leasehold	 PEFC PEFC® 00-1001 Promoting Sustainable Forest Management www.pefc.co.uk	The mark of responsible forestry



Bourne Woodlands Forest Plan 2024

Designations & Soil Types Map

for Temple & Callan's Lane Woods

Date: January 2024

Scale @ A3: 1:15,000

Bourne Woodlands FP Area

- Ancient Woodland
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Undesignated Secondary Woodland

Soil Type Classification

- Brown rendzinas (343a&c)
- Gleyic brown calcareous earth (512a)
- Pelo-stagnogleys (712b&g)
- Typical argillic gley (841a)

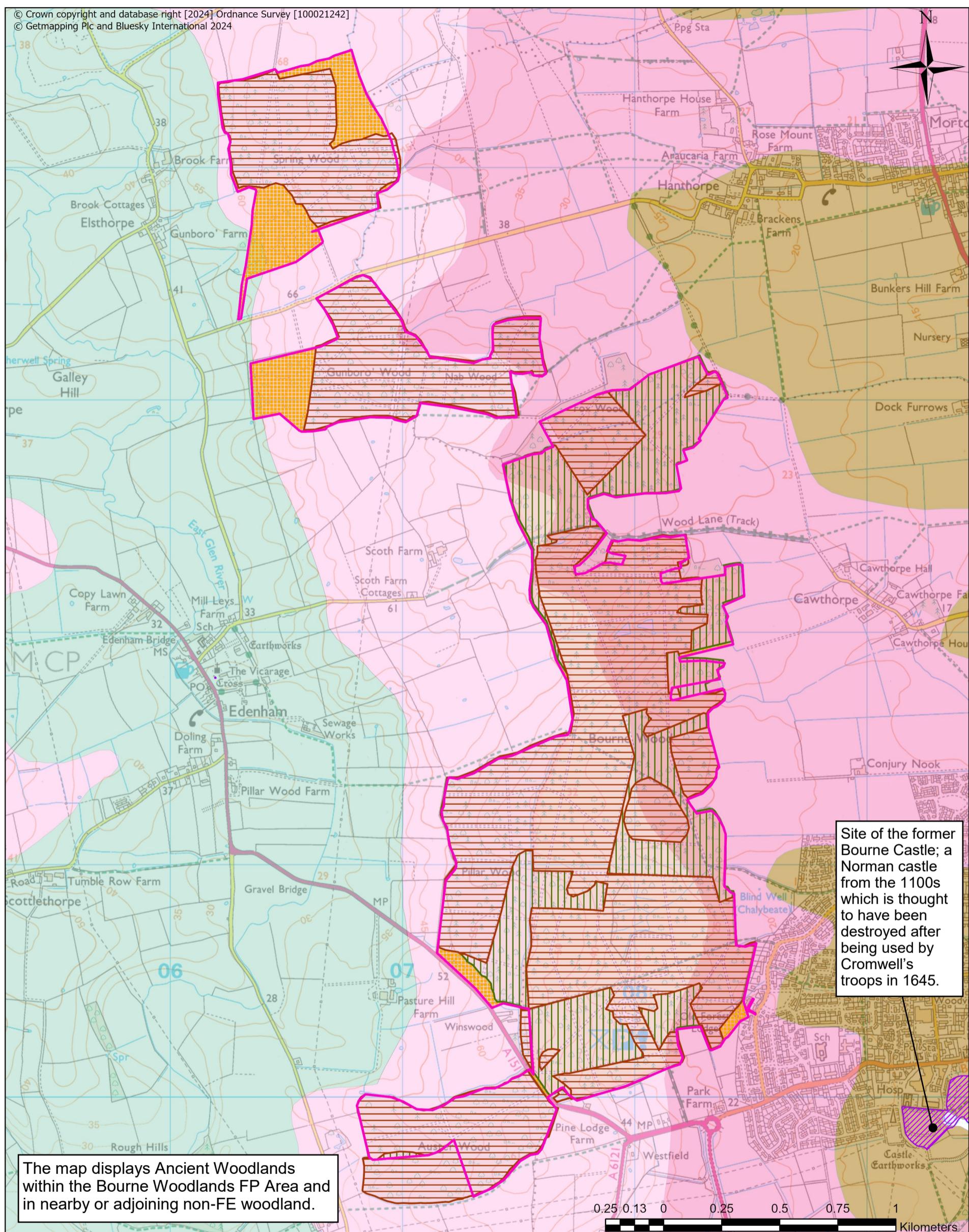
[^] Soil data from the National Soil Map and Soil Classification (Copyright Cranfield University, 2018)



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Bourne Woodlands Forest Plan 2024

Designations
& Soil Types Map
 for Bourne, Gunboro' & Spring Woods

Date: January 2024
 Scale @ A3: 1:15,000

-  Bourne Woodlands FP Area
-  Ancient Woodland
-  Ancient & Semi-Natural Woodland
-  Ancient Replanted Woodland
-  Undesignated Secondary Woodland
-  Scheduled Monuments

^ Soil Type Classification

-  Brown rendzinas (343a&c)
-  Gleyic brown calcareous earth (512a)
-  Pelo-stagnogleys (712b&g)
-  Typical argillic gley (841a)

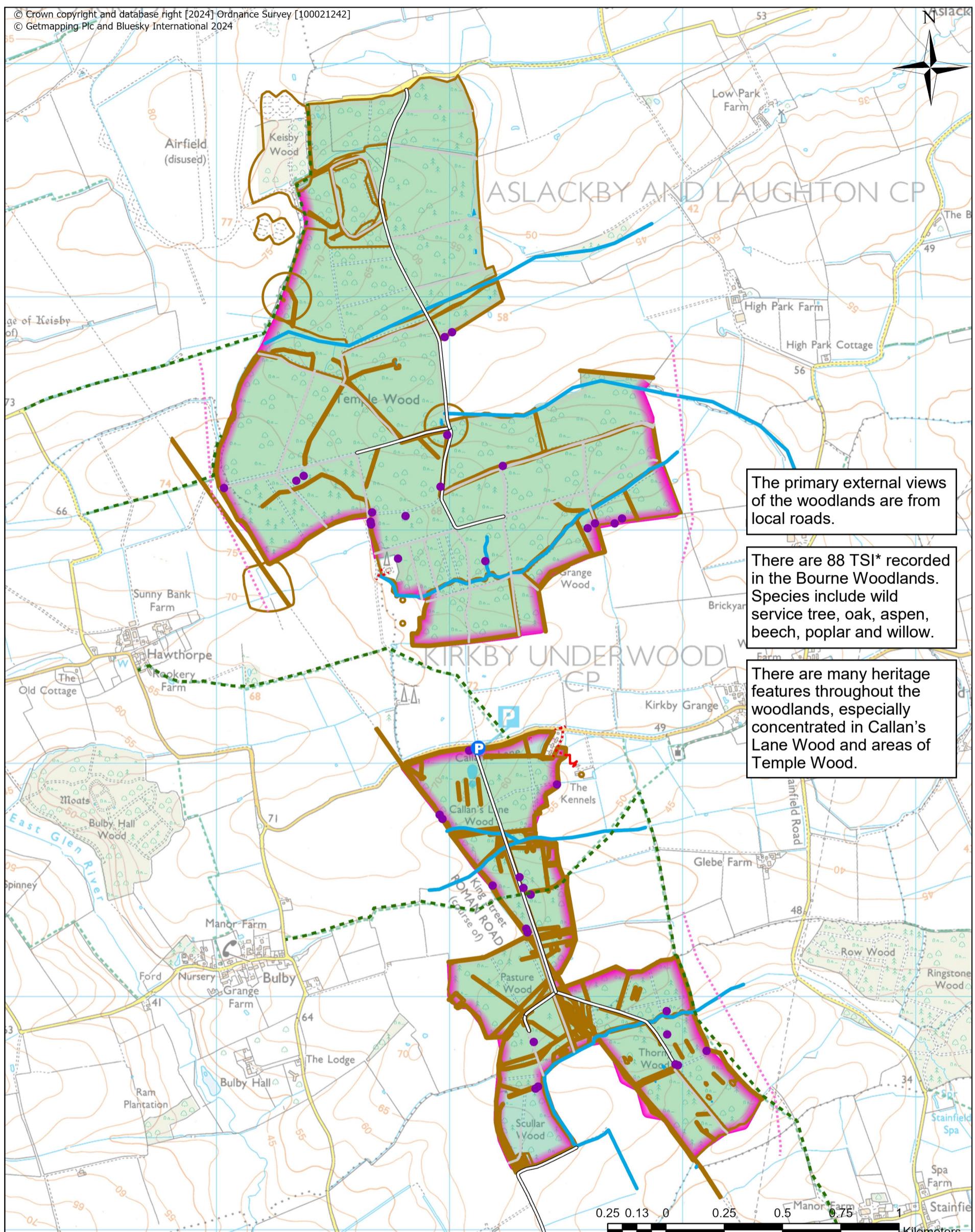
[^] Soil data from the National Soil Map and Soil Classification (Copyright Cranfield University, 2018)



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Bourne Woodlands Forest Plan 2024

 Survey Map
 for Temple and Callan's Lane Woods

 Date: January 2024
 Scale @ A3: 1:15,000

- Bourne Woodlands FP Area
- Visually sensitive boundaries
- Heritage features
- TSI
- Ponds
- Watercourses
- Access
- Forest Roads

- Rides
- Carparks
- Public Rights of Way
- Utilities
- Overhead powerlines
- Underground powerlines
- Gas pipelines

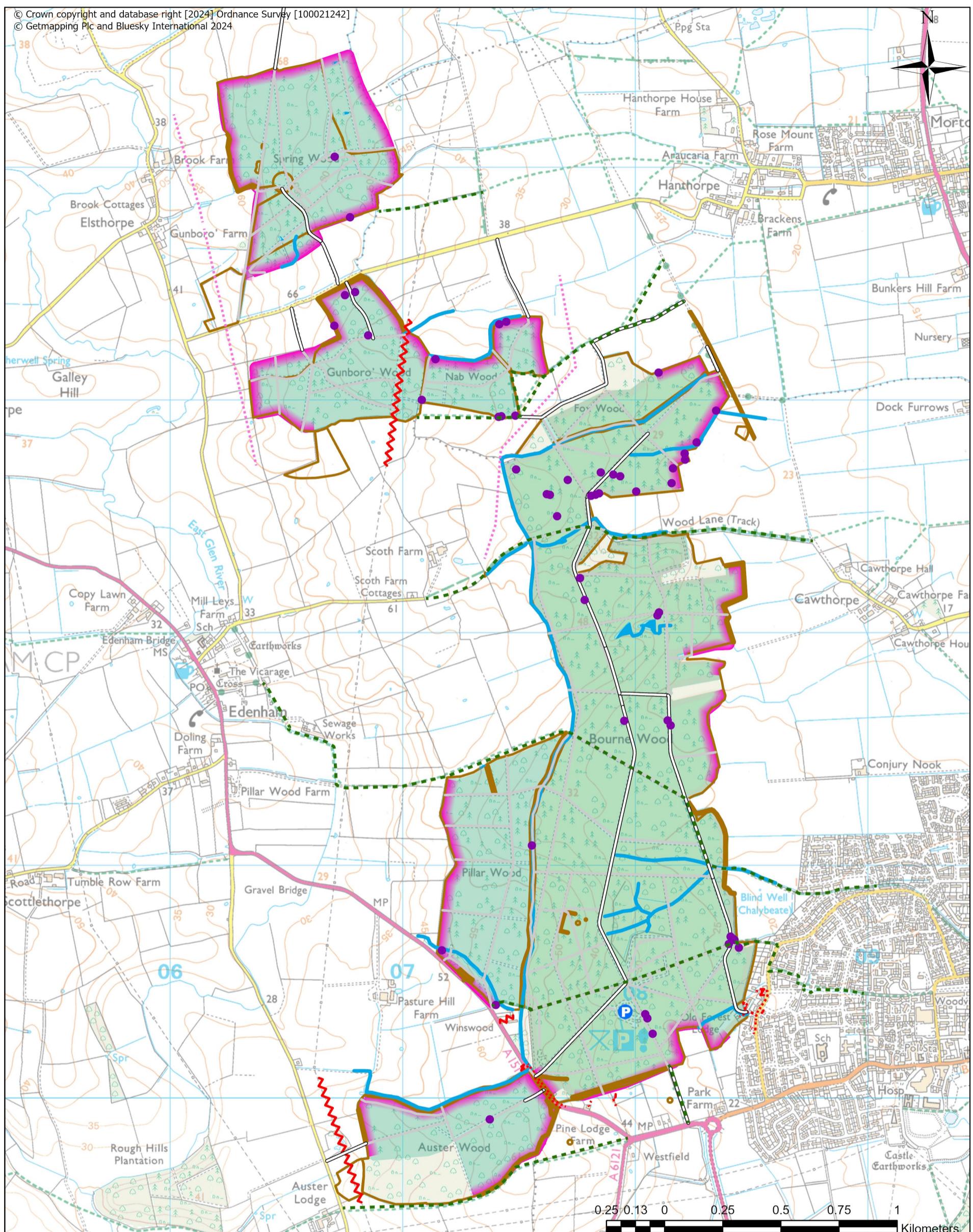


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Bourne Woodlands Forest Plan 2024

Survey Map

for Bourne, Gunboro' & Spring Woods

Date: January 2024

Scale @ A3: 1:15,000

- Bourne Woodlands FP Area
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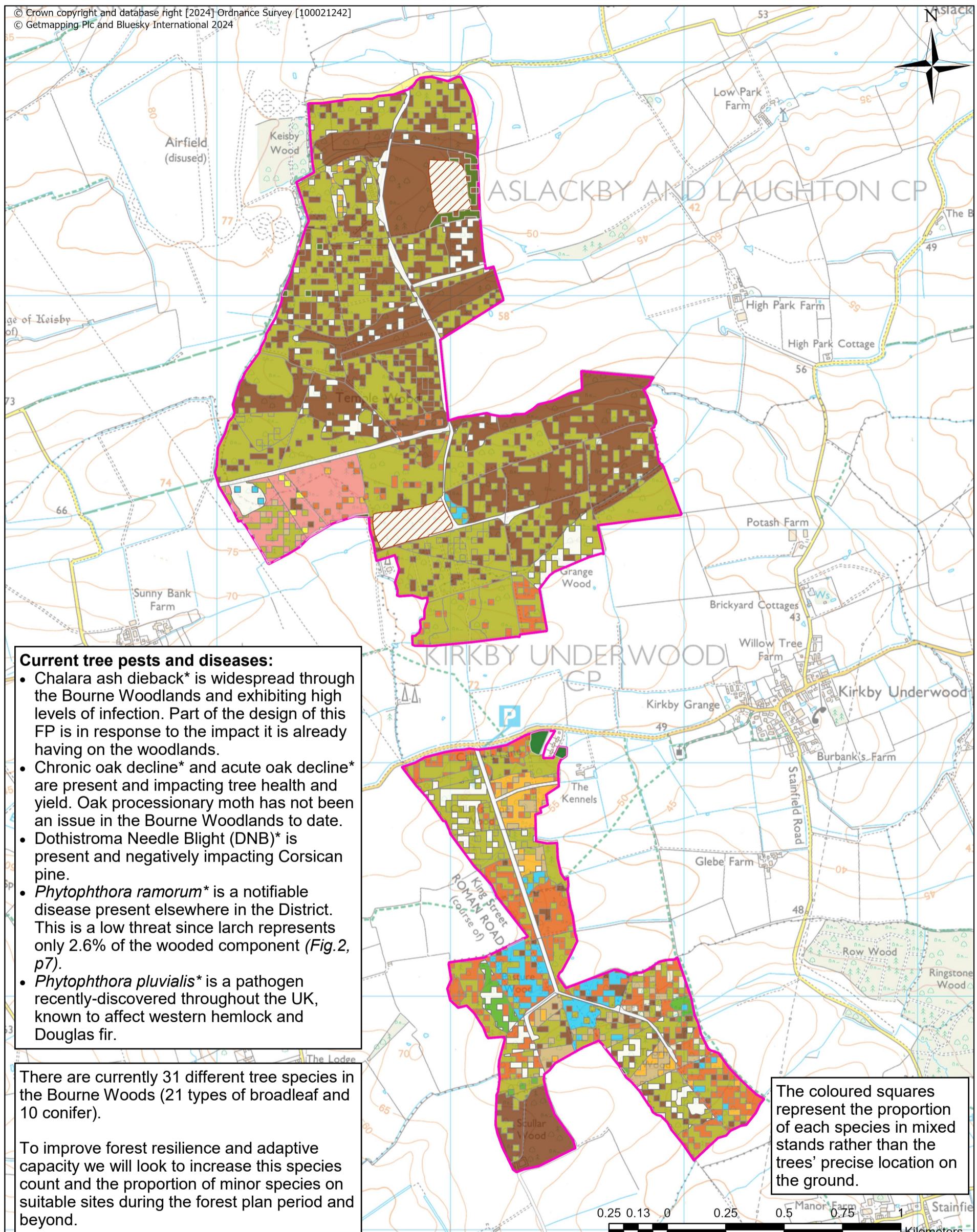


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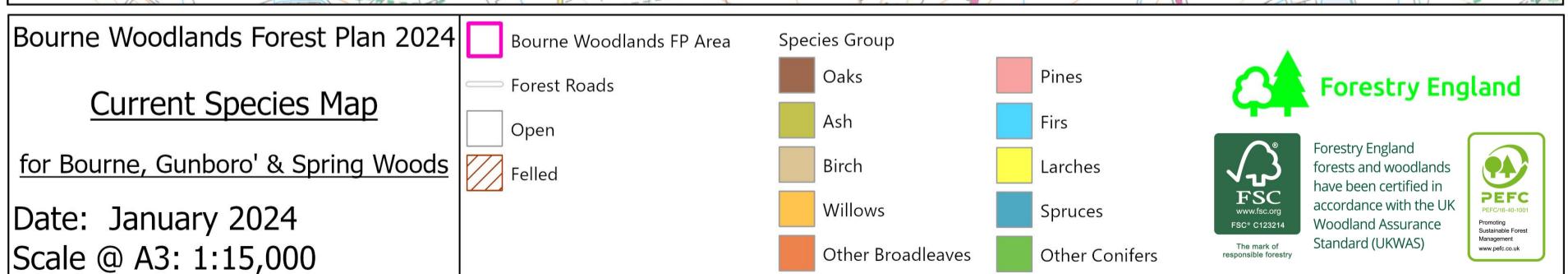
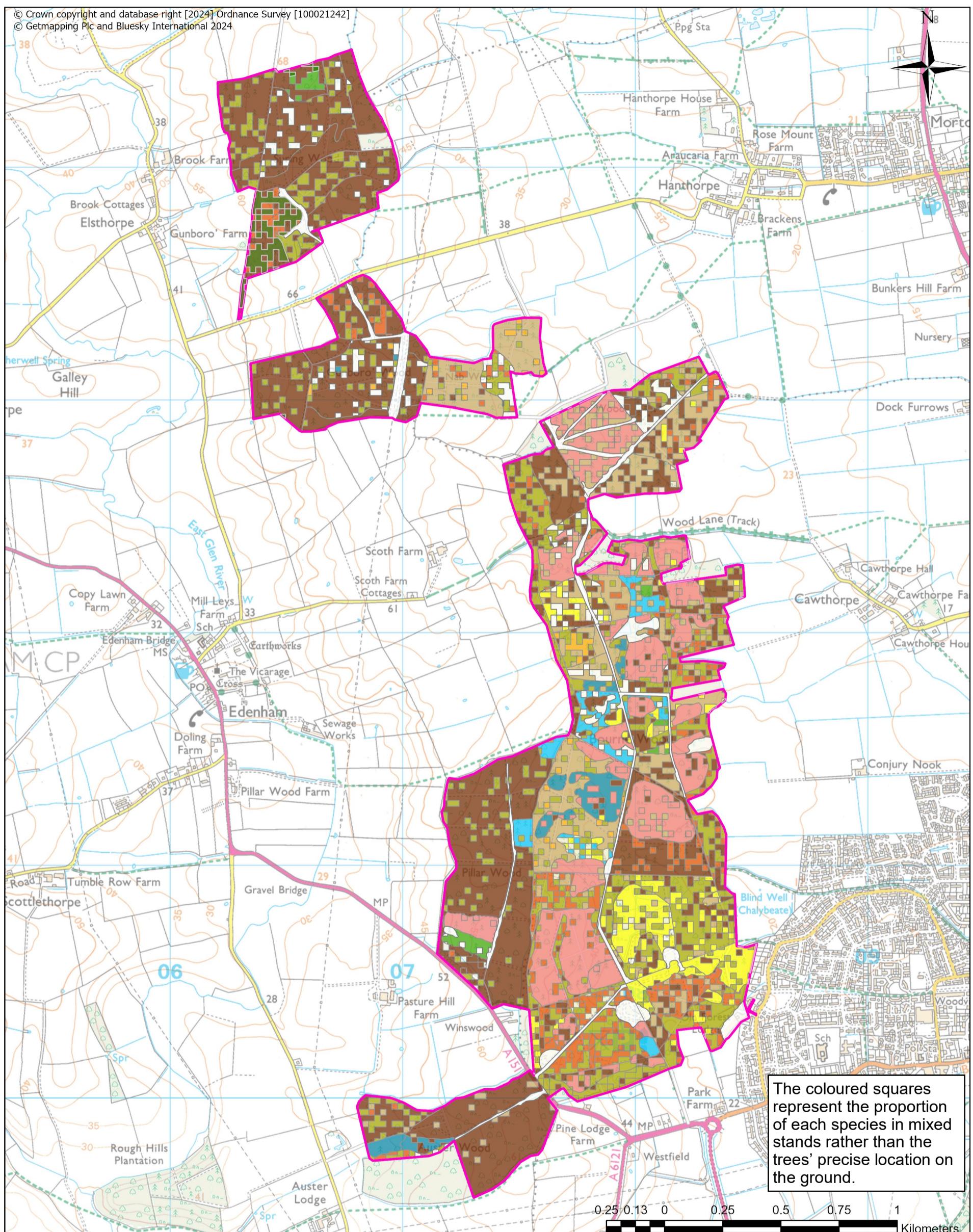
The mark of responsible forestry

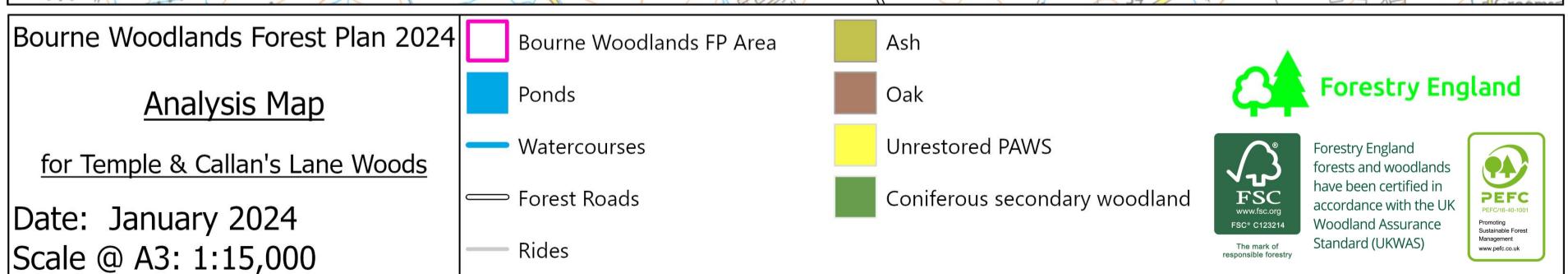
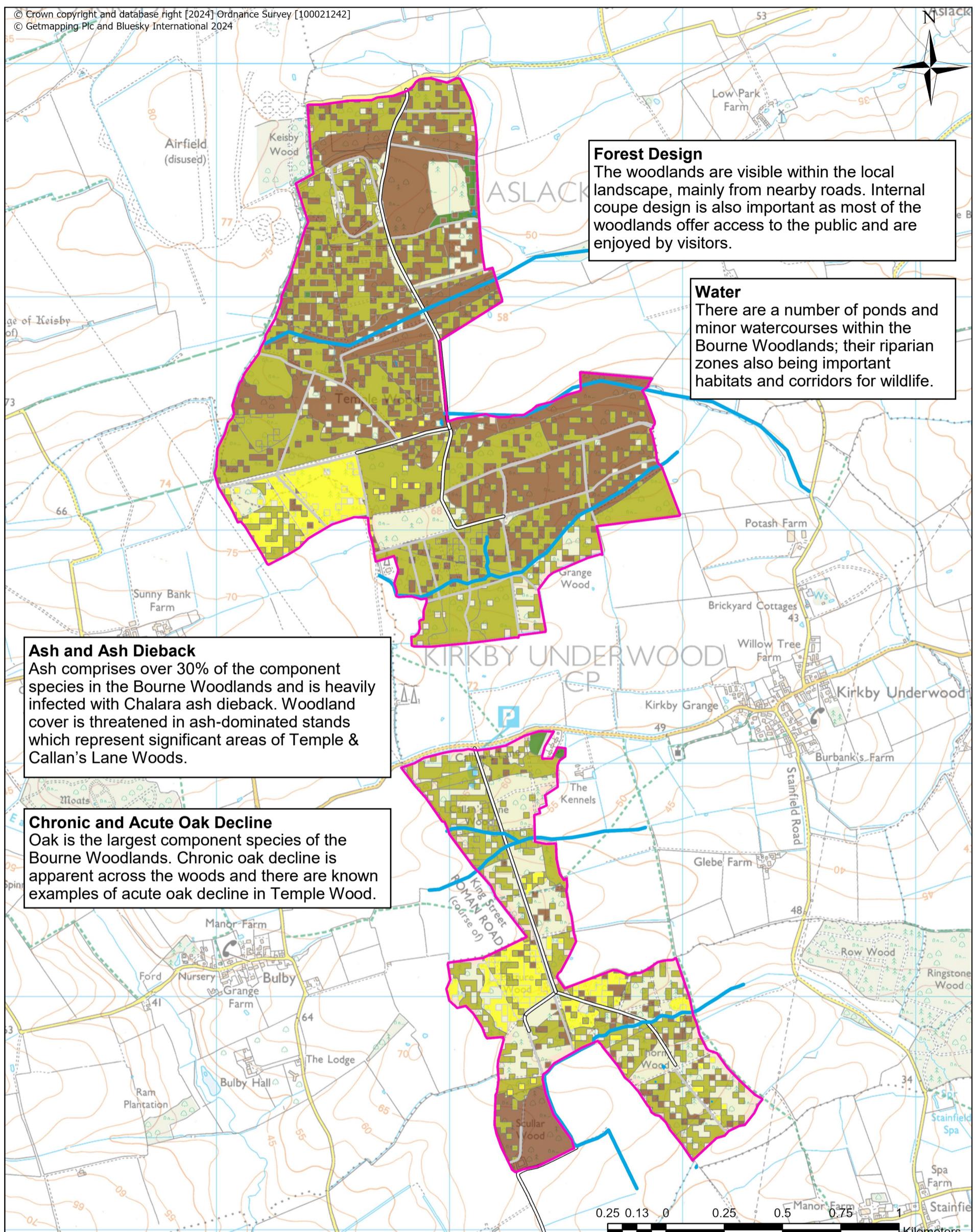


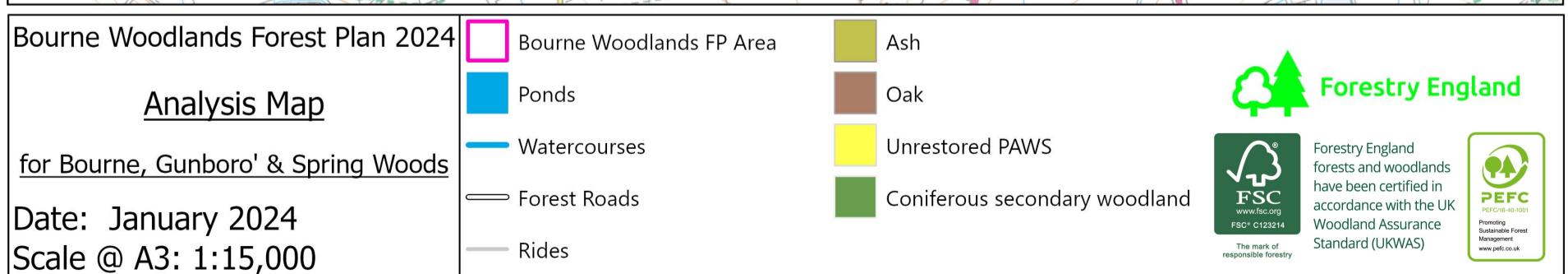
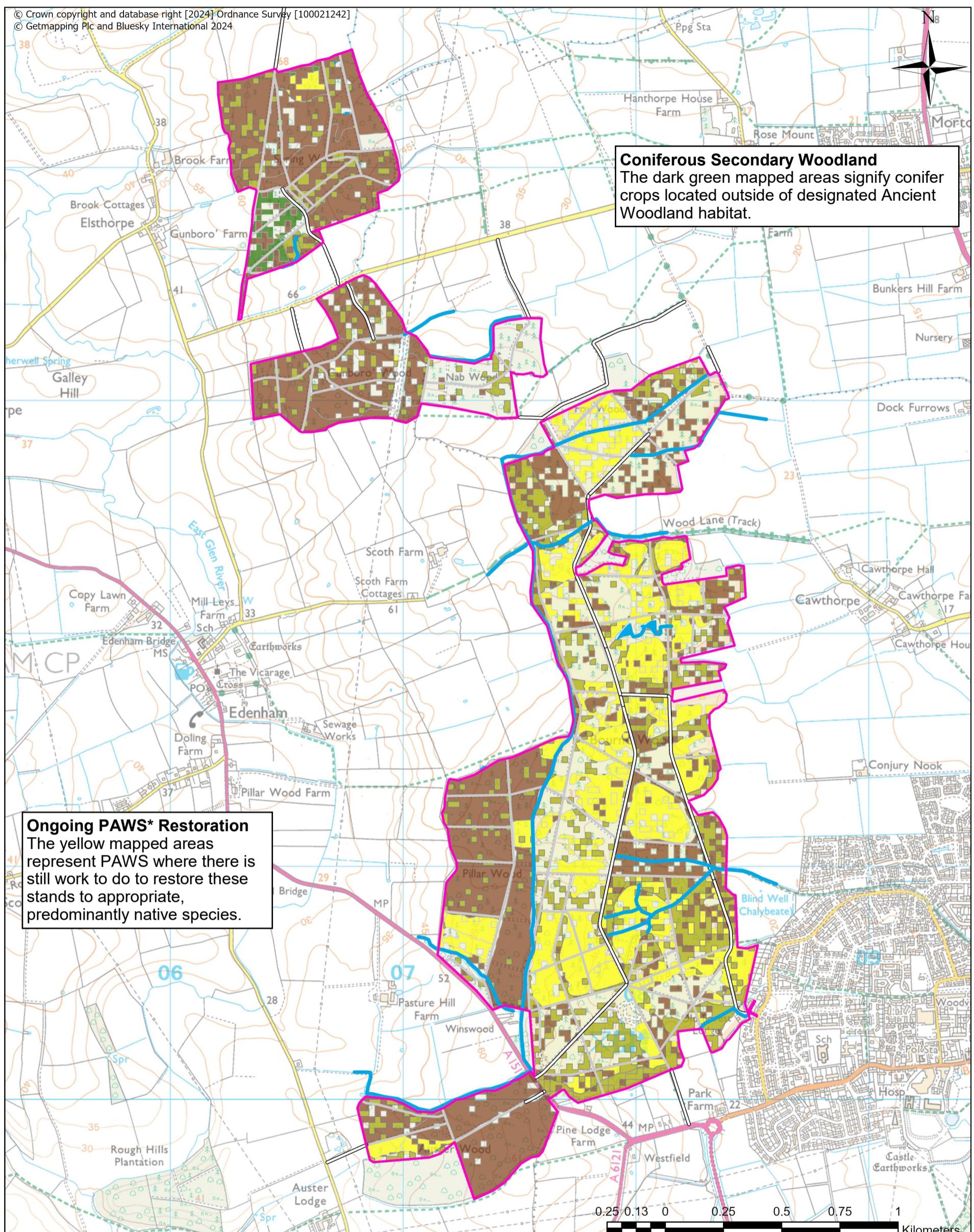
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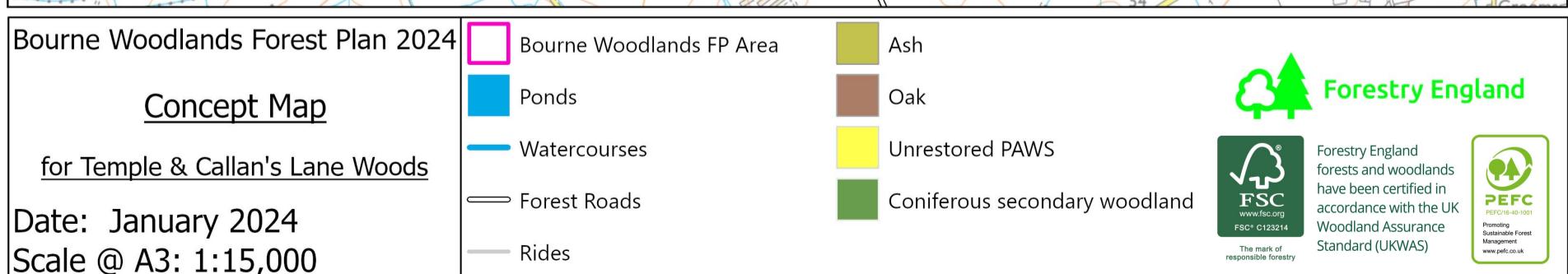
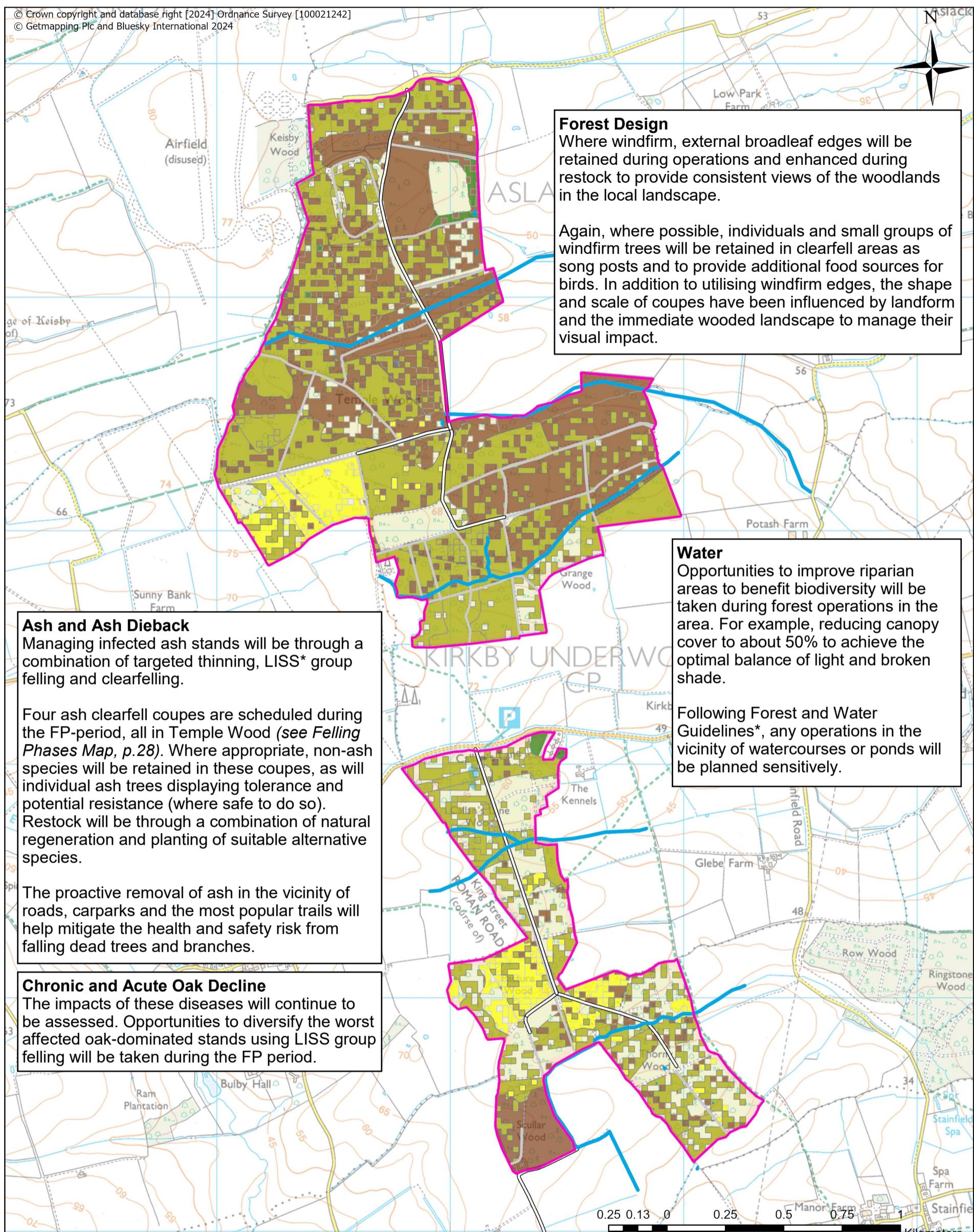


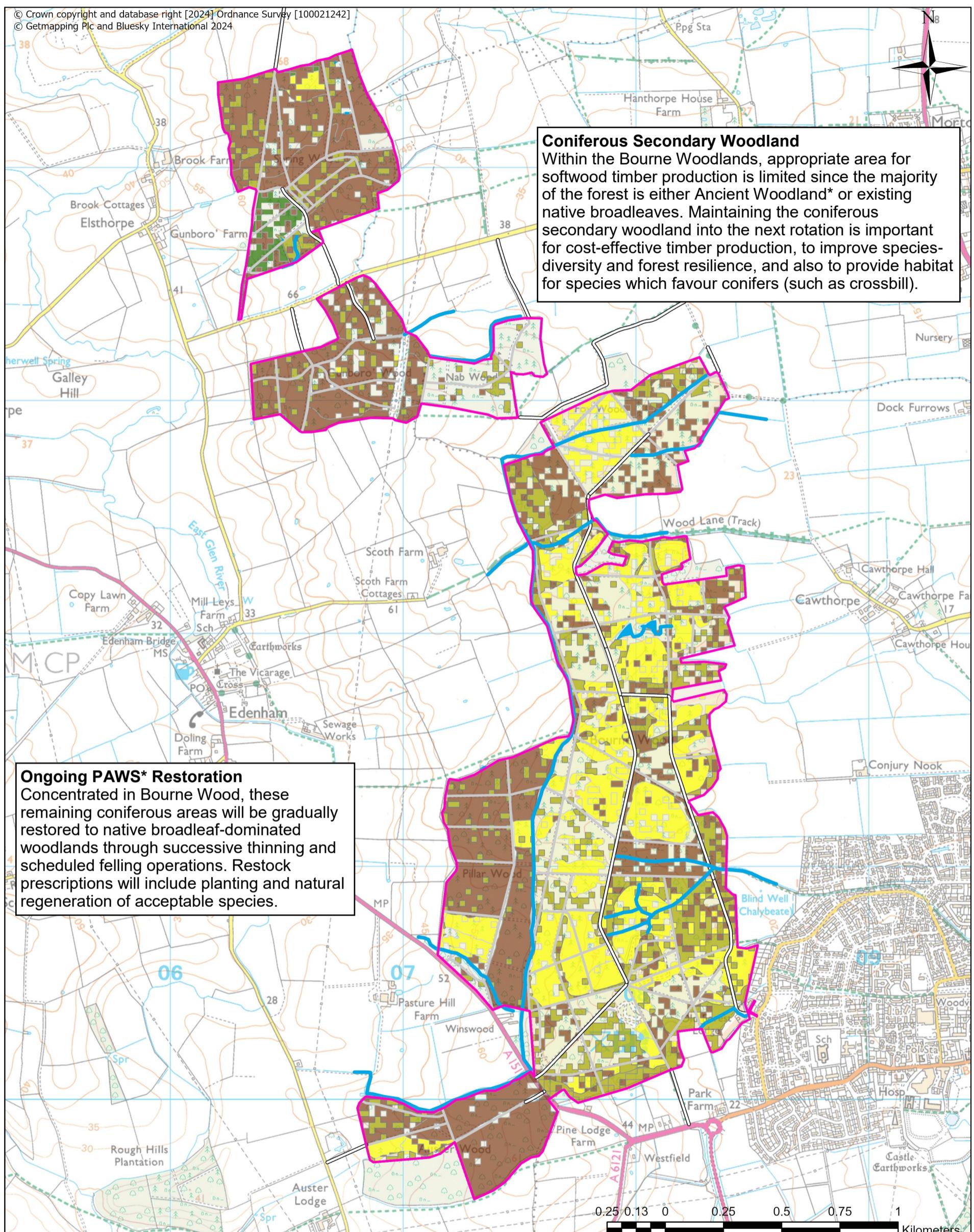
Bourne Woodlands Forest Plan 2024		Species Group		Forestry England	
<u>Current Species Map</u>		 Bourne Woodlands FP Area  Forest Roads  Open  Felled		 Pines  Firs  Larches  Spruces  Other Broadleaves  Other Conifers	
for Temple & Callan's Lane Woods				 FSC www.fsc.org  PEFC Promoting Sustainable Forest Management www.pefc.co.uk	
Date: January 2024				Forestry England forests and woodlands have been certified in accordance with the UK Woodland Assurance Standard (UKWAS)	
Scale @ A3: 1:15,000					



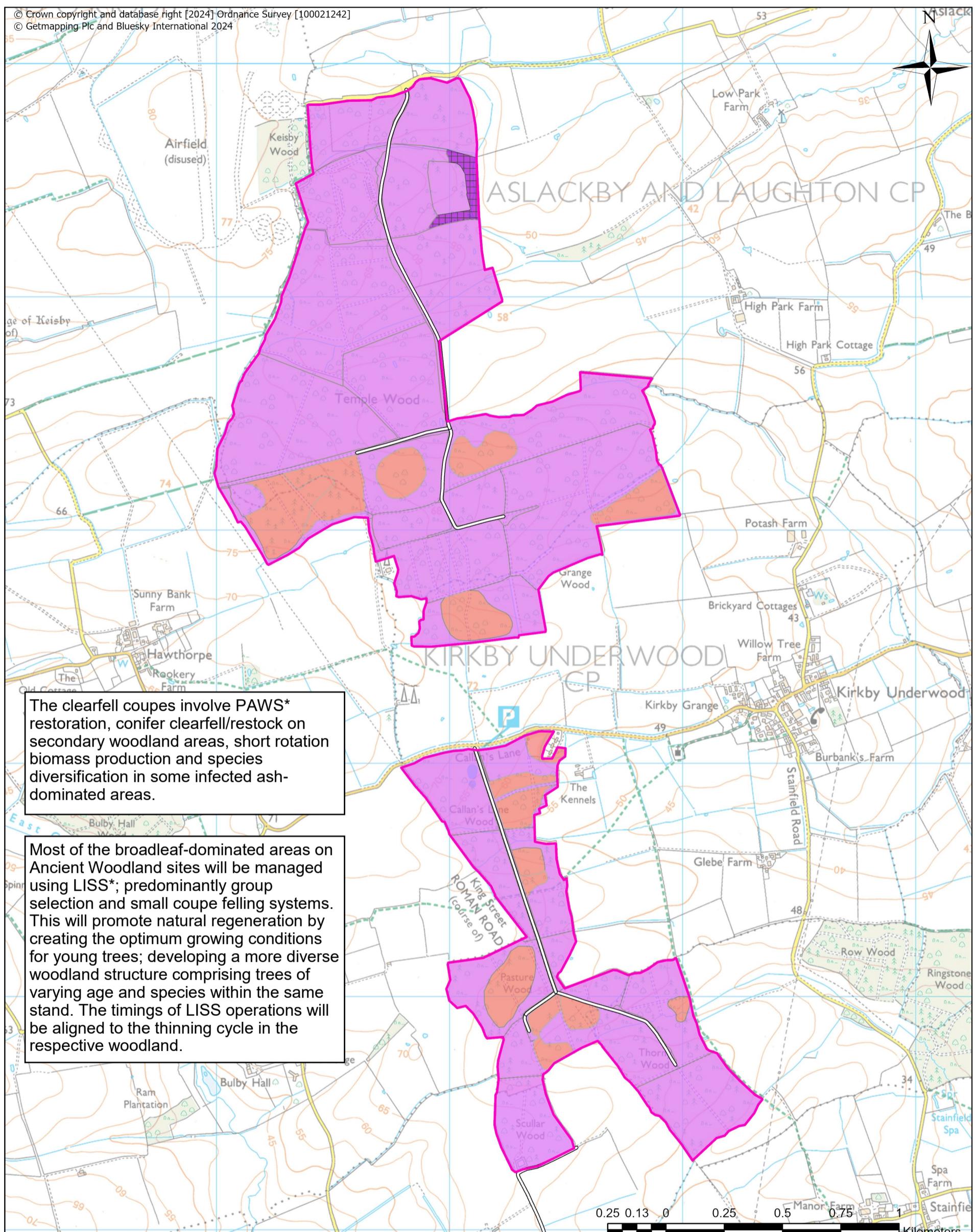




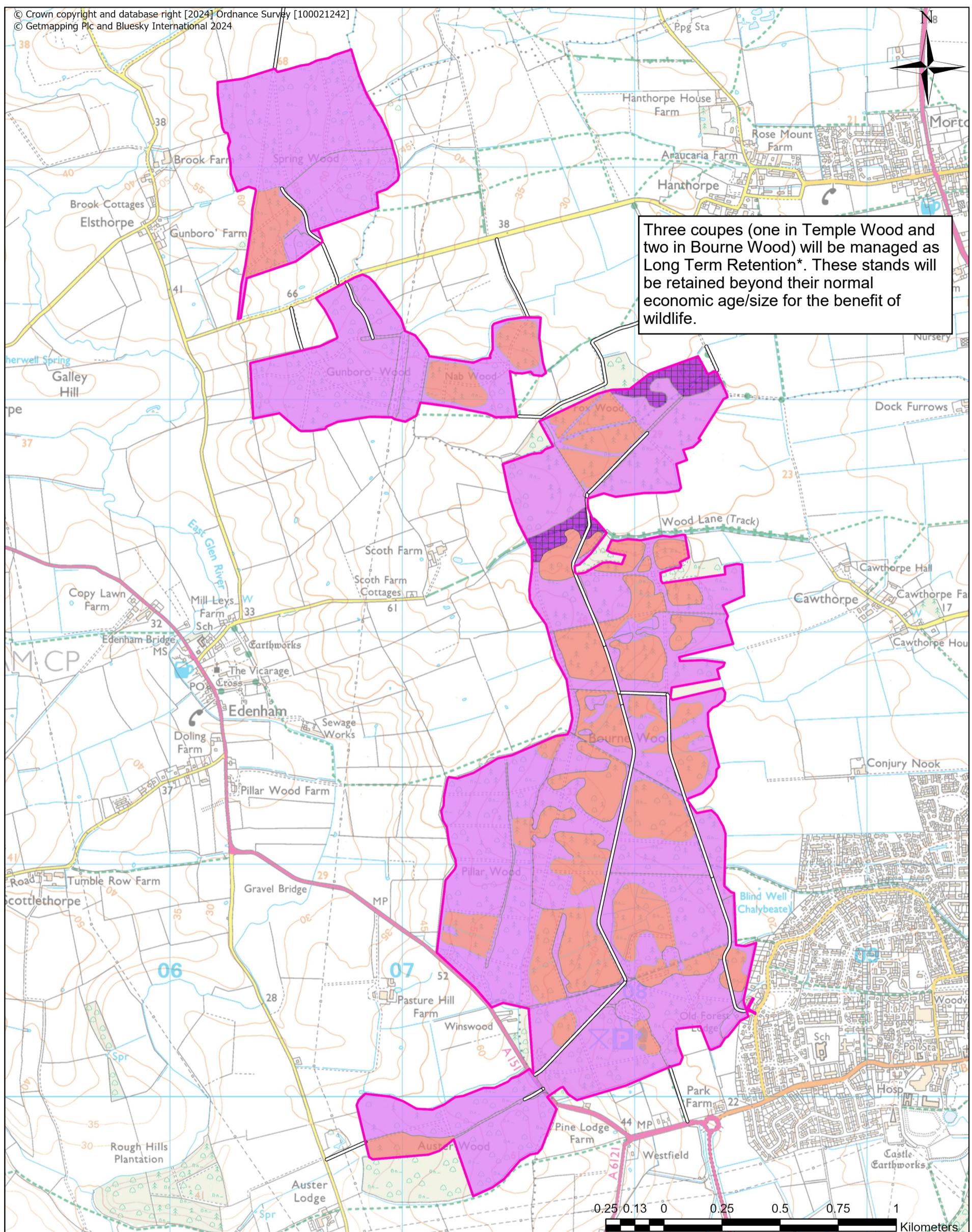




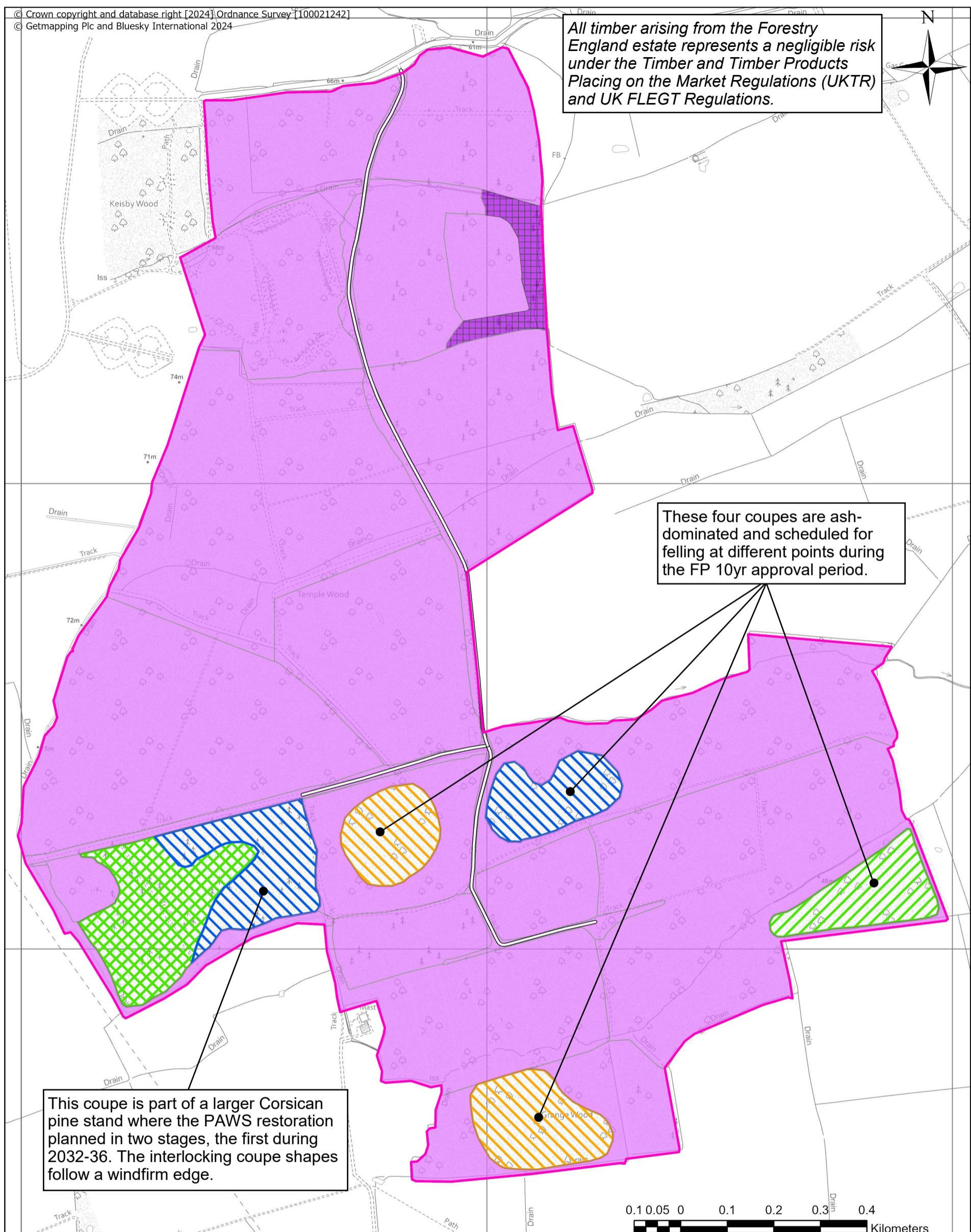
Bourne Woodlands Forest Plan 2024 Concept Map <u>for Bourne, Gunboro' & Spring Woods</u>		 Bourne Woodlands FP Area  Ponds  Watercourses  Forest Roads  Rides	 Ash  Oak  Unrestored PAWS  Coniferous secondary woodland	 Forestry England <small>Forestry England forests and woodlands have been certified in accordance with the UK Woodland Assurance Standard (UKWAS)</small>
Date: January 2024 Scale @ A3: 1:15,000		 <small>FSC® www.fsc.org FSC® C123214</small> <small>The mark of responsible forestry</small>	 <small>PEFC® PEFC® 40-1001 Promoting Sustainable Forest Management www.pefc.co.uk</small>	



<p>Bourne Woodlands Forest Plan 2024</p> <p>Silvicultural Systems Map</p> <p>for Temple & Callan's Lane Woods</p> <p>Date: January 2024</p> <p>Scale @ A3: 1:15,000</p>	<p>Bourne Woodlands FP Area</p> <p>Silvicultural System:</p> <ul style="list-style-type: none"> Clearfell (red) LISS* / Open (purple) Long Term Retention (dark purple with grid) <p>Forest Roads:</p>	 Forestry England <p>Forestry England forests and woodlands have been certified in accordance with the UK Woodland Assurance Standard (UKWAS)</p> <p>FSC www.fsc.org FSC® C123214 The mark of responsible forestry</p> <p>PEFC www.pefc.co.uk PEFC® 40-1001 Promoting Sustainable Forest Management</p>
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Bourne Woodlands Forest Plan 2024 Silvicultural Systems Map <u>for Bourne, Gunboro' & Spring Woods</u> Date: January 2024 Scale @ A3: 1:15,000		 Bourne Woodlands FP Area  Forest Roads	Silvicultural System  Clearfell  LISS* / Open  Long Term Retention	 Forestry England  FSC www.fsc.org FSC® C123214 The mark of responsible forestry	 PEFC PEFC® 40-1001 Promoting Sustainable Forest Management www.pefc.co.uk
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Bourne Woodlands Forest Plan 2024

Felling Phases Map for Temple Wood

Date: January 2024
Scale @ A3: 1:7,500

 Bourne Woodlands FP Area

 Forest Roads

Other Silvicultural System

 LISS* / Open

 Long Term Retention

Felling Phase

 2024-2026	 2047-2051
 2027-2031	 2052-2056
 2032-2036	 2057-2061
 2037-2041	 2062 & beyond
 2042-2046	



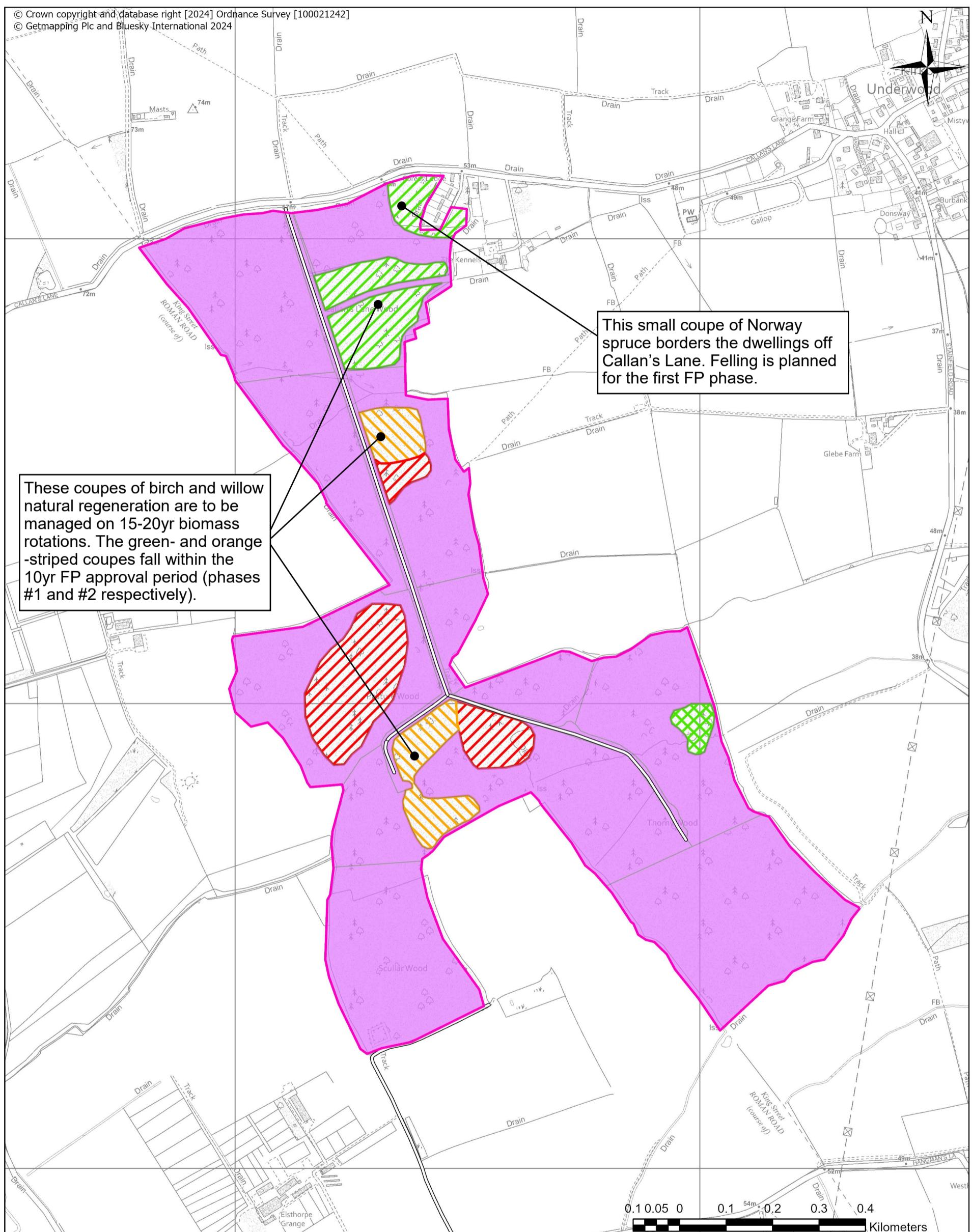
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Bourne Woodlands Forest Plan 2024

Felling Phases Map for Callan's Lane Wood

Date: January 2024
 Scale @ A3: 1:7,500

 Bourne Woodlands FP Area

 Forest Roads

Other Silvicultural System

 LISS* / Open

 Long Term Retention

Felling Phase

- | | |
|---|---|
|  2024-2026 |  2047-2051 |
|  2027-2031 |  2052-2056 |
|  2032-2036 |  2057-2061 |
|  2037-2041 |  2062 & beyond |
|  2042-2046 | |



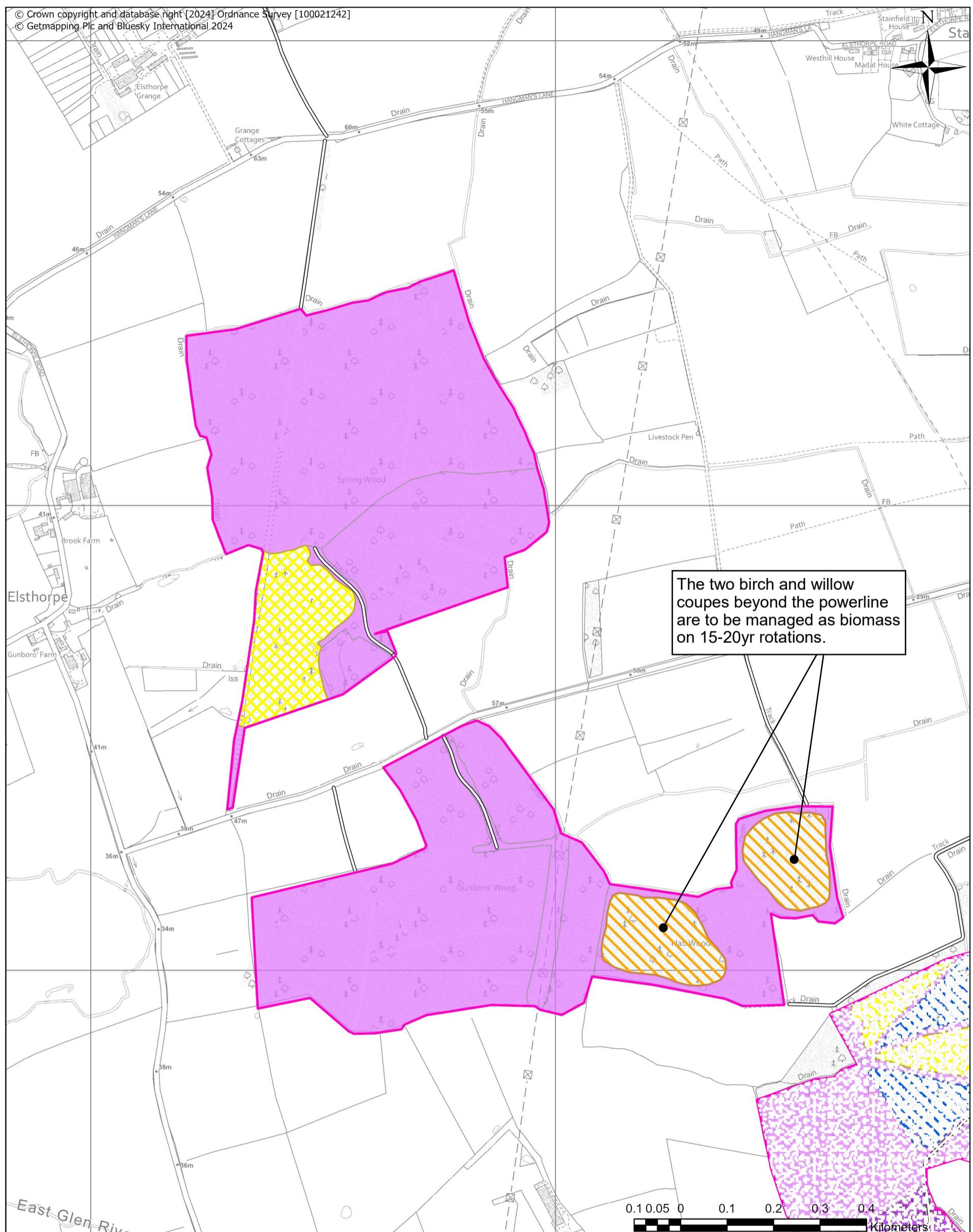
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Bourne Woodlands Forest Plan 2024
Felling Phases Map
 for Spring & Gunboro' Woods
 Date: January 2024
 Scale @ A3: 1:7,500

Bourne Woodlands FP Area
 Forest Roads
 Other Silvicultural System
 LISS* / Open
 Long Term Retention

Felling Phase

- | | |
|---|---|
|  2024-2026 |  2047-2051 |
|  2027-2031 |  2052-2056 |
|  2032-2036 |  2057-2061 |
|  2037-2041 |  2062 & beyond |
|  2042-2046 | |



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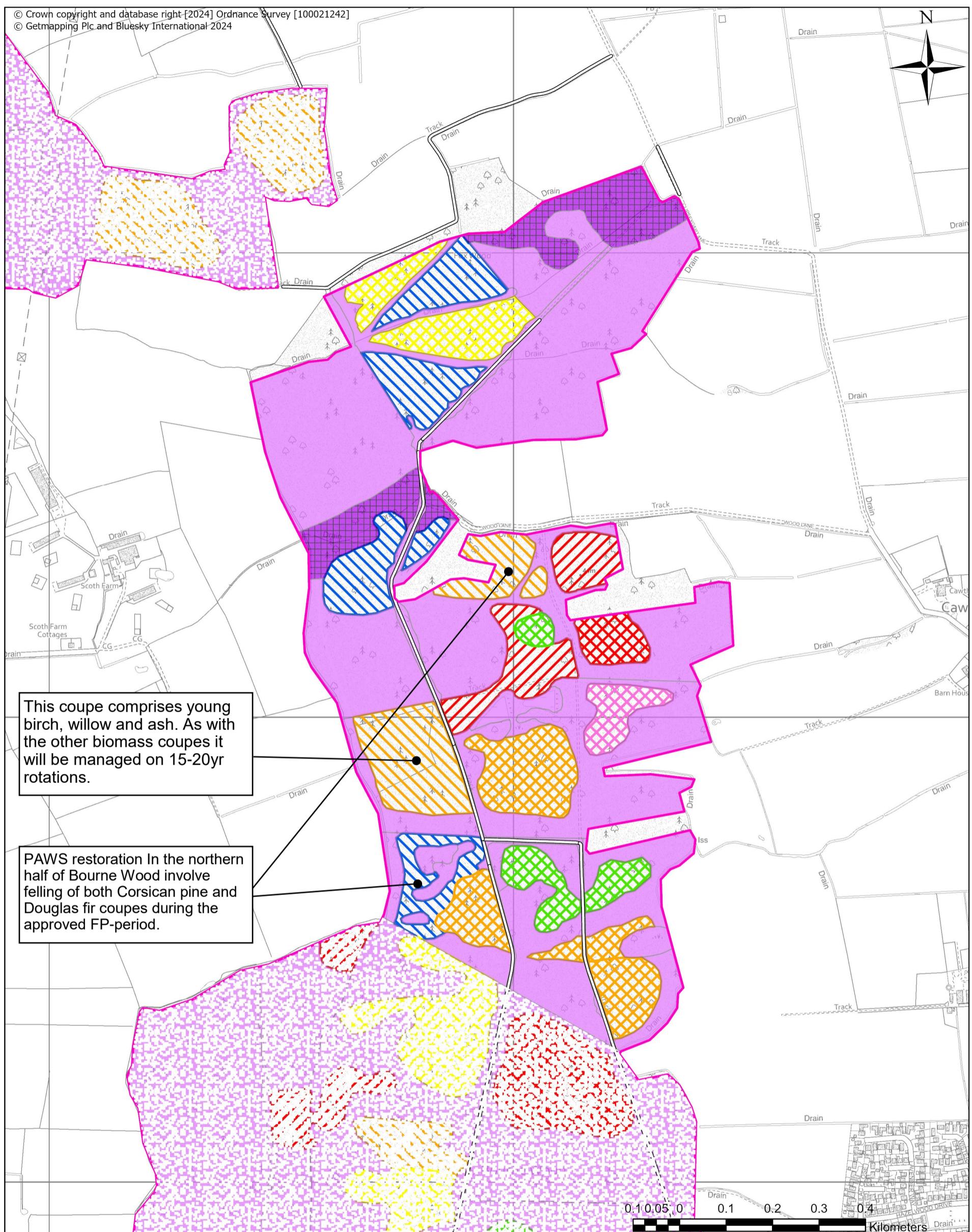


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Bourne Woodlands Forest Plan 2024

Felling Phases Map
for Bourne Wood (North)

 Date: January 2024
 Scale @ A3: 1:7,500

Bourne Woodlands FP Area

Forest Roads

Other Silvicultural System

LISS* / Open

Long Term Retention

Felling Phase

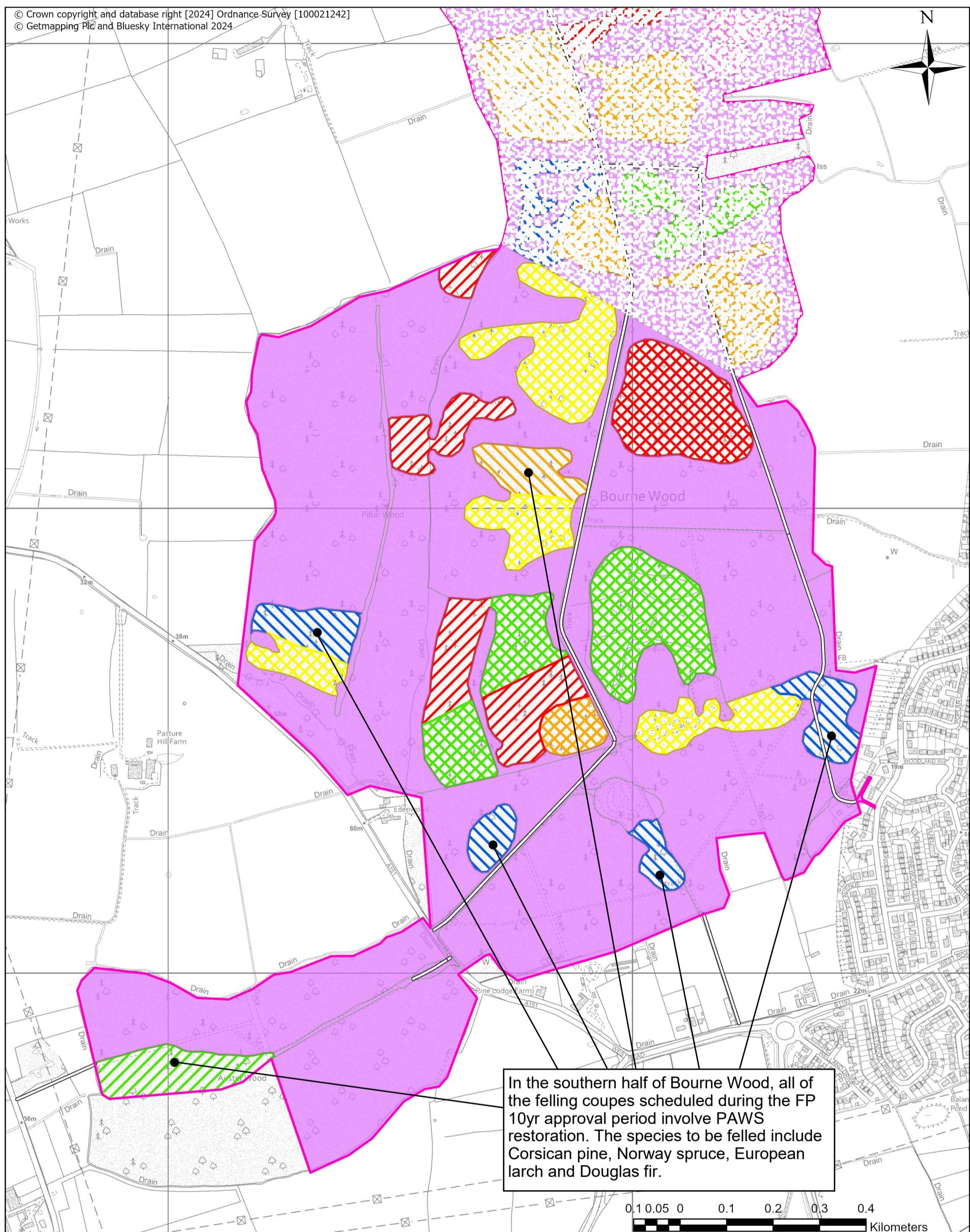
 2024-2026	 2047-2051
 2027-2031	 2052-2056
 2032-2036	 2057-2061
 2037-2041	 2062 & beyond
 2042-2046	



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Bourne Woodlands Forest Plan 2024

Felling Phases Map

for Bourne Wood (South)

Date: January 2024
 Scale @ A3: 1:7,500

 Bourne Woodlands FP Area

 Forest Roads

Other Silvicultural System

 LISS* / Open

 Long Term Retention

Felling Phase

- | | |
|---|---|
|  2024-2026 |  2047-2051 |
|  2027-2031 |  2052-2056 |
|  2032-2036 |  2057-2061 |
|  2037-2041 |  2062 & beyond |
|  2042-2046 | |



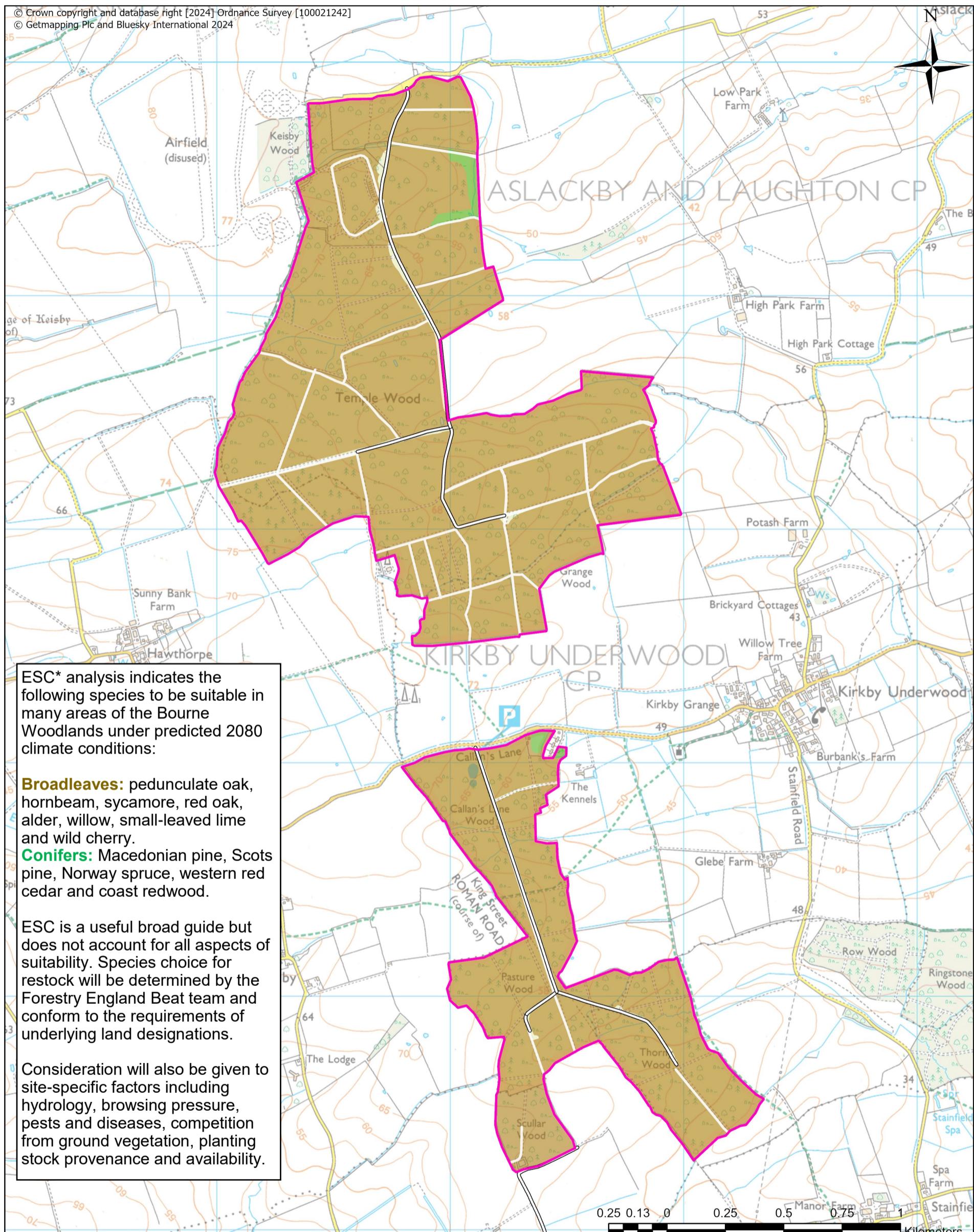
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Bourne Woodlands Forest Plan 2024

Intended Landuse Map

for Temple & Callan's Lane Woods

Date: January 2024

Scale @ A3: 1:15,000

 Bourne Woodlands FP Area

 Forest Roads

Intended Landuse

 Broadleaf-dominated woodland

 Conifer-dominated woodland

 Open



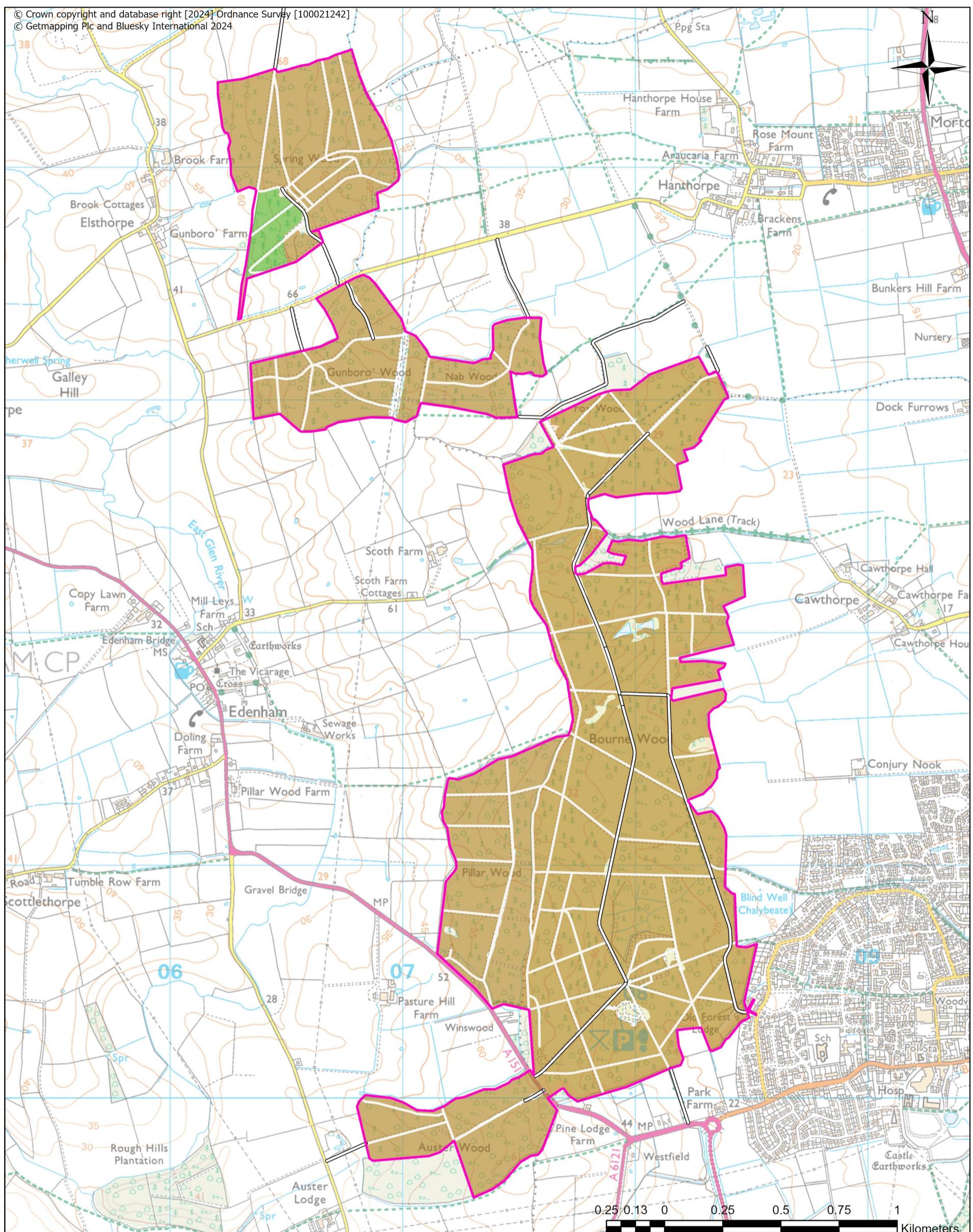
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Bourne Woodlands Forest Plan 2024

Intended Landuse Map

for Bourne, Gunboro' & Spring Woods

Date: January 2024

Scale @ A3: 1:15,000

 Bourne Woodlands FP Area

 Forest Roads

Intended Landuse

 Broadleaf-dominated woodland

 Conifer-dominated woodland

 Open



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accordance with the UK
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