



Forestry Commission woodlands have been certified in accordance with the rules of the Forest Stewardship Council.



The mark of



Summary



Certificate of Approval for

Tree Felling

This is to certify that tree felling under Forest Design Plan ref. Central/08 (19) Sence Valley has been approved by the Forestry Commission as

being in accordance with Government policy for

This certificate is valid only for the period of the felling approval.

Signed Duling

Forestry Commission Officer
Date _____11/02/2019

The Sence Valley Forest Plan (FP) summarises proposals by the Forestry Commission for the management of Sence Valley (109.9ha), Kelham Bridge (26ha), Mill Hill Wood (7ha), David Taylor Wood (3.5ha) and Heather Wood (10.9ha). The FP lies within Leicestershire and South Derbyshire Coalfield landscape character area (LCA) which comprises of gently undulating sequence of mudstones and sandstones with seatearths and coal seams, which strongly influences both the physical and cultural patterns of the landscape. This is a landscape in continuing transformation, in part assisted by the regeneration initiative of The National Forest that covers most of the LCA.

Each of the woodlands in the FP have all been planting in the last 20 years as part of the restoration of former open cast sites and all provide good access for local communitys. Sence Valley is the key site and provides formal facilities for the public including car parks, toilets and picnic areas. As part of the Forestry Commission Centenary celebrations that take place in 2019 an additional 48ha of arable land has now been purchased on the northside of Sence Valley increasing the Sence Valley site from 61.9ha to 109.9ha . The new woodland will be planted in 2019 with a mixture of conifer and broadleaves to showcase how sustainable forest management can be practiced and helps deliver an economically valuable timber resources while also delivering social and environmental benefits for years to come.

Principle management objectives for the FP will be to; diversify the species and age structure to mitigate against the impacts of climate change, pests and disease; grow sustainable commercial crops; manage and facilitate public access across all sites; conserve the landscape and conservation value of the woodlands and manage the natural resources to maintain soil and water quality.

2



Central Forest District - North Staffordshire Forest Plan

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Sence Valley Forest Plan 2019 to 2028

by

Forestry Commission Enalanc

1. What are Forest Plans?

Forest Plans are produced by us, the Forestry Commission (FC), 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 explain the process we go through in deciding what is best for the woodlands' longterm future.
- To show what we intend the woodlands to look like in the future.
- To detail our management proposals, for the first ten years so we can seek approval from the statutory regulators.

We have produced this plan to illustrate our management proposals thereby creating an opportunity for you to comment on the plan, whether you are a user, a neighbour or a member of one of the many stakeholder groups that have an interest in the woodlands. Information on how to get your comments to us is on our webpage.

This plan does not set out the detailed yearly management operations for each small piece of a wood, known as a coupe*. It is not possible to say which year a particular operation will take place, but we can say in which five-year period it should happen.

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, which this plan forms part of, is such that the Forest Plan is the best mechanism for applying for this licence. Responsibility for checking that the plan meets all the relevant standards and statutes lies with another part of the FC (Forest Services). If all the criteria are met, full approval is given for the management operations in the first ten years (2019 - 2028) and outline approval for the medium term vision (2028 - 2067). The plan will be reviewed after the first five years (2023) to assess if the objectives are being achieved.

We use some technical words and phrases in the text because they best describe what we are doing. There is a glossary at the back of the plan (Appendix II) with some commonly used technical forestry terms and abbreviations. These technical words are identified throughout the plan with an asterisk *.

Sence Valley Forest Plan 2019 to 2028

Application for Forest Plan Approval Α

Plan Area Identification:

| Forest District: | Central Forest District | |
|--------------------------|-------------------------|-----------------|
| Beat: | National Forest & North | n Staffordshire |
| Name: | Sence Valley Forest Pla | an |
| Nearest Town: | Ibstock | |
| OS Grid Reference: | Sence Valley | SK 3998 1124 |
| | Kelham Bridge | SK 4092 1224 |
| | Mill Hill Wood | SK 3981 1060 |
| | David Taylor Wood | SK 3967 1026 |
| | Heather Wood | |
| | | |
| Local Planning Authority | Leicestershire | |
| | | |

Designations: ii

Secondary Woodland*, National Forest* and lies in the Leicestershire and South Derbyshire Coal—National Character Area Profiles No.71.

Date of Commencement of Plan iii

As soon as possible once approved.

| Area (ha) | Conifers | Broadleaves |
|-----------------------------|----------|-------------|
| Felling | 0.5 | 0.2 |
| Restocking and new planting | 29.2 | 16.5 |

NB - All above figure's refer to the gross area and excludes thinning operations that take place on a 5 year cycle in conifers and 10 year cycle in broadleaves.



Total clear fell area 0.7ha Forest Plan maps are attached

In addition to the above felling 74ha will be managed using Low Impact Felling Silvicultural Systems (LISS). This will be done through the removal of single and 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 include; provide sufficient light to boost growth of understorey and ground flora, allow adequate space for the development of crowns and stem form for quality timber and accelerate individual tree growth.

I apply for Forest Plan approval for the area described above and in the enclosed Forest Plan.

| I undert | ake to obtain any permission necessary for the implementation of the approved plan. |
|----------|---|
| Signed | Indien low ens Approved During |
| | FDM |
| District | Cantral England Conservancy East & East Mids |
| Date | 27.11-18 Date 11/02/2019 |

All of our forests and woodlands in this Forest District are certified by the Forest Stewardship Council ® (FSC®) and the Programme for the Endorsement of Forest Certification™ (PEFC[™]). All Forestry Commission forests and woods are independently certified as sustainably managed, to continue to benefit future generations.



2. Management Objectives

Ensure stands

structurally and species diverse

are more

Protecting and Expanding England's Forests and Woodlands and Increasing their Value to Society and the Environment

> Select suitable species and appropriate silvicultural techniques to regenerate (either naturally or through planting) commercially productive forests.

> > Create new woodland and secondary woodland habitats to meet economic, environmental and social objectives.

making them more resilient to the impacts from climate change, pests and disease. Sympathetically designed and appropriately scaled interventions to improve and maintain the visual integration of the forest into the

Manage wetland habitats and open space for the benefit of wildlife and nature conservation.

NB—Management objectives arise from the Terms of Reference (Appendix I) written at the outset of each plan by the senior district management staff, beat team and planner.

Maintain existing public access and enhance where possible.

Conserve TSIs and recruit future veteran trees and increase deadwood habitat.





2.1 Environmental

The design plan area comprises new woodlands planted on former open cast and arable sites that have over the last 20 years become fully established. The original design incorporated a mixture of conifer and broadleaved woodlands, open grassland and wetland

habitats. The design of each woodland provides a nice mosaic of habitats, and despite being busy sites attracting many visitors, there are still areas left undisturbed for wildlife. The grassland and wetland habitats have attracted a wide variety of birds and Lepidoptera and the woodlands provide nesting sites and cover. Grassland habitats are being actively managed through a varied cutting programme that has created a variety of grassland swards suitable for the feeding, breeding and nesting habitats for a variety of bird species. In 2008 an artificial sand martin wall was installed on the edge of the Horseshoe lake in Sence Valley and this has been used successfully by breeding pairs each year. Otters have been sighted in the



Pic.1 Hobby feeding locally

River Sence which runs through Kelham Bridge, Sence Valley and Heather Wood. Future management operations will ensure that the timing and scale of any felling operations stabilises the soils and does not lead to siltation of the lakes or river.

39.8 ha of new woodland will be planted in 2019 and this will incorporate a wide variety of native and non-native species planted at varying density. This will create a more diverse woodland habitat as the woodland becomes established. The new woodland will also



incorporate 8.2ha of open space and 6.8km of woodland edge habitat which will increase the available habitat further still. The size and distribution of planting patterns in the new woodland intersected by open areas will provide a wide variety of habitats which it is hoped will allow associated species to become more widely distributed.

Deadwood habitat and Trees of Special Interest (TSI) are limited in these young woodlands and the Forestry Commission will, when operations are carried out, retain trees beyond their economic rotation to increase the available deadwood and TSI where it is safe to do so.

Woody vegetation along the banks of the River Sence and around the lakes will be cut periodically to ensure they remain open with some individual and small groups of trees. Within the new woodland a riparian woodland will be created along the modified ditch that runs parallel to the western boundary. This area will be planted with alder, aspen and oak. Opportunities to renaturalise the stream will be explored in conjunction with Environment Agency which will help slow the flow of water into the River Sence. In the eastern area of the new planting a naturally wet area will be managed to create two seasonal ponds and provide additional wetland habitats between the lakes in Sence Valley and the wetland habitats in Kelham Bridge Natural Reserve.

2.2 Economic

The new woodland area to be planted has been designed and species have been selected to ensure that the woodland can produce quality timber products. Forestry operations across each of the woodland areas have been carefully planned to ensure they can be carried out sustainably and generate a valuable timber resource. The timing and scale of

environmental management objectives, diversify the internal landscape and create transitional open space for wildlife. The existing woodlands are now reaching an age where the first thinning operations are due to take place and all areas will be thinned in the next 10 years.



The Corsican pine stands are now being affected by Dothistroma needle bight (DNB)* which has reduced the yields. DNB causing the trees to shed needles each year, gradually weakening the trees and will in some cases may kill the trees. To counter the effect of

Sence Valley Forest Plan 2019 to 2028

Pic.3 Logs stacked ready for collection

Forestry Commission Enaland

the DNB the Corsican pine stands will be thinned and rows of trees removed. This will increase aeration in the crowns of the trees reducing the damp conditions where the fungus spreads rapidly and create space for underplanting. The underplanting will allow the site to be managed productively again while the phased removal of the Corsican pine take place.



Pic 4. Corsican pine stands dominate the upper slopes of Sence Valley

The underplanting will help lessen the impact on the landscape when the final phase of pine removal takes place as the 60% of the area will already have been restocked and the conifers fully established. Corsican pine stands will be removed in 3 phases over the next 15-20 years with the weakest trees being removed first. The four species selected to restock the pine stands have been chosen to make the woodlands more resilient to future impacts from climate change, pests and disease.

The mixed broadleaved stands are being affected by Ash die back which will kill the young ash trees and prevent them from ever reaching a size which would generate revenue. To counter this, group felling will be used to remove the ash and the areas replanted with alternative broadleaved and conifer species.

The Forestry Commission is currently working with a local business who operates a pre school nursery on site and the Forestry Commission will continue to look for opportunities to work with other organisations and user groups to deliver a wider range of public services that may in the future generate income and employment in the local area.

2.3 Social

Each of the woodlands has been designed with a network of paths and trails for the local community to gain easy access across each of the sites which link into the network of public rights of way in the local countryside. Sence Valley is the key site within the design plan area and provides with a wide variety of facilities which include, car parks, toilets, bird hide, viewing platform, art works, picnic areas, view points, seating and waymarked trails. The other woodlands are more informal with well managed trails and occasional seating areas.

As part of the Forestry Commission Centenary celebration that takes place in 2019 a new woodland will be planted that has been designed to enhance the visitor experience on the site. A new path running parallel to the River Sence will be created and lined with an avenue of cherry trees that will be set in an open 30-40m wide open glade. Five species of cherry have been chosen which will be planted along the avenue with flowering seasons from April through till October each year.



Within the new woodland 24 species of trees will be planted and these have been chosen for their distinct character, shape, colour and form (see Intended landuse map). Each species will be planted in single species groups so as to emphasis their colour and texture of the bark, leaves and needles. The size, shape and distance between the groups has been

Pic.6 Cycle routes are promoted scaled so that the public moving through the woodland on foot will experience a diverse woodland which will provide a distinct sensory experience created by the group planting.

A ranger service is provided for the woodlands by the Forestry Commission and they coordinate a variety of activities and events each year to help the public get involved. There is also a well established group of volunteers who, working with the rangers, help maintain the site, improve conservation areas and access routes. As part of the Centenary Celebration a number of additional activities and events will take place and these will be promoted locally and on the Forestry Commissions website.



Pic.5 Easy access trails



Pic.7 Picnic facilities in Sence Valley



3. Intended Landuse

The current landuse within the established woodland sites will remain largely unchanged with the percentage of areas managed as open space, wetland habitats and woodlands remaining unchanged. The longterm objectives within the woodland areas will be for the production of commercial timber from both the broadleaves and conifer crops and this will be extended to the new woodland being planted in 2019.



Pic. 8 & 9. Douglas fir trees and cones

The most significant habitat changes to be seen will be through the removal of Corsican pine that dominate Sence Valley and its replacement through underplanting with Douglas fir, Lawson cypress, Western hemlock and Grand fir. The introduction of 4 species previously occupied by just one will help diversify the woodland structure and make the woodland more resilient to climate change, pests and disease.



A more subtle change will occur in the broadleaves stands where the ash trees will be removed and replaced with conifers and oak. As the ash is planted in small groups its removal will be less apparent and as the mixed broadleaved stands are thinned and restructured the loss of the ash will not have a significant impact on the internal landscape or woodland microclimate. Rabbit, hares and muntjac deer are known to be resident in the area and fences will be used in the new woodland to protect the young trees from damage. Underplanting within the existing woodland will not be fenced off and the Forestry Commissions ranger services will monitor and control mammal damage as necessary. When restocking takes place trees will be planted at a stocking density of between 2,800 to 4,000 stems / ha depending on each species preferred habitat requirements

Table 1 shows how the woodlands contribution to the whole of the Central Districts compliance against UKWAS, PEFC and UK Forest Standard. No natural reserves will be designated in this FP due to the small size of each woodland and their urban setting. As the woodlands develop areas will be retained beyond the economic age as long term retentions that will provide future Trees of Special Interest (TSI), deadwood habitat and a more diverse habitat for wildlife.

Table.1 Sence Valley Forest Plan Contribution towards the Central District and

commitments to UWAS and UKFS

| | Forest Plan Area | Forest Plan Percentage | Forest District Area | Forest District Percentage |
|--|---------------------|---------------------------|-------------------------|-------------------------------|
| Total Area | 157.3 | 100 | 28,170 | 100 |
| Total Wooded Area | 106 | 67.3 | 23,859 | 84.6 |
| Open Habitat (>10%) | 51.3 | 32.7 | 4,311 | 15.3 |
| Natural Reserves - Plan- tation (1%) | 0 | 0 | 171 | 1.4 |
| Natural Reserves - Semi Natural (5%) | 0 | 0 | 396 | 3.3 |
| Longterm Retentions & Low Impact Silvicultural Systems (>1%) | 74 | 69.8 | 14,474 | 60.8 |
| Area of Conservation Value (>15%) including designations, PAWS, AW, ASNW, NR, LTR and LISS | 63 | 40 | 15,152 | 53.9 |

Pic 10. Red oak autumn colour



Consultees 4.

The consultation undertaken in the preparation of this plan has been wide ranging and extensive. Full documentation including letters, notes of conversations etc. are held at our District Offices.

| Consultee | Date Contacted | Date Response Received | Issues Raised | Forest Distric |
|---|--------------------------------|------------------------------------|---|--|
| Peter Williams Leicestershire & Rutland Omithological Society (LROS) | Public consultation website | 28th November 2018 | Pleased with the proposals to expand the Sence Valley Forest Park and the management objectives to diversify age, species and structure; manage wetland habitats for birds and conservation; requested that Red List of Birds be included in the plan; offered support and assistance with the future management of wetland habitats. | FEE would include to Sand Mart also be included within the plan. between FEE and LROS to explo the development of the woodland |
| Mrs Jan Shepherd, clerk to Heather Parish Council | Public consultation website | Via public consultation website | Overall support for plan and confirmed the importance of Biodiversity and woodland ecology, climate change, employment and recreation. | FEE– acknowledged their respor |
| Sue Bull | Public consultation website | Via public consultation website | Overall support for plan with emphasis on the importance of Woodland ecology, communities and people, plant health and soils, recreation and access | FEE– acknowledged their respor |
| Charles Robinson—National Forest Company | Public consultation website | Via public consultation website | Overall support—Questioned the suitability of Douglas fir; wanted to see more recognition of how this site fits within the National Forest and links to adjacent woodlands; limited recognition to ecological monitoring; outline objectives for visitor infrastructure,; more detail within the wording of the plan; great detail on the broad strategy for management of pest and diseases | FEE confirmed that Douglas fir w soil sampling and ESC models b a felling and restock plan and do operations will be undertaken or information will be kept in ecolog management plans associated to adjacent National Forest Woodla recreation map and the districts p available within the district strate |
| Ben Devine—Leicestershire and Rutland Wildlife Trust (LRWT) | Public consultation website | Via public consultation website | Supported the management objectives to increase deadwood, create riparian woodland, create new ponds and open space. They were not in favour of extensive conifer woodland and would like to see greater use of native species to increase available habitats for wildlife. They did not support the removal of ash as this would reduce deadwood habitat and there may be some ash trees that are resilient to the disease. | FEE is pleased to have the supp objectives and has clarified that it woodland area is to ensure that it produce sustainable timber and it 65% of the new woodland will be species) and the remaining 35% (planted with 15 broadleaf species conifers. This design it is hoped wildlife, balancing the economic woodland. FEE is working with F resistant ash trees across all its surveys have shown all the youn diameter of these young trees wo |

As part of the local consultation a public drop in day was held at Sence Valley on the 23rd October 2018, 10 stakeholders were contacted, notices placed on site, copies of the plan placed in Ashby de la Zouch reference libraries and on the FC website. Comments received and the Forestry Commission's responses recorded above.

Sence Valley Forest Plan 2019 to 2028

ict Response to Issues

rtin. Willow Tit and Common Tern will Site meetings will be arranged plore how LROS may be able to assist in ind and wetland habitats in the future.

onse-no actions needed

onse-no actions needed

was seen as a suitable species following being run. The forest plan is in essence does not show in detail how management or the detail of on-site facilities. This ogical reports and recreation to each site. The relationship to the lland is referenced on the survey and s policies on pest and disease control is tegic plans.

port of the LRWT management at the use of conifers on 65% of the new t this new woodland can be managed to d remain financially viable into the future. be coniferous (planted with 9 different % of the woodland will be deciduous cies) which will be scattered amongst the ed will maximise the available habitats for c with conservation value of the Forest Research to identify potentially s woodlands. In Sence Valley our ung ash trees to be affected and the would provide limited deadwood habitat.



Meeting and Monitoring Management Objectives 6.

| National Strategy | District Strategy | Forest Plan Objective | |
|--|---|---|--|
| Economic: Maintain the land within our stewardship under UKWAS certification, Improve the economic resilience of our woods and forests, Encourage and support business activity on and around the Estate. | Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements. We will use the opportunity presented by additional, unscheduled clear felling 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. | Initiate a structured and sustained programme of clearfell and thinning to include infrastructure requirements. Select suitable species and appropriate silvicultural techniques to regenerate (either naturally or through planting) commercially productive forests. Ensure stands are more structurally and species diverse making them more resilient to the impacts from climate change, pests and disease. | This will b changes r data base Planting s compartm providenc Underplar annually. Reviewed design pla |
| Nature: Improve the resilience of the natural environment of the Estate under our Stewardship, Realise the potential of the Public Forest Estate for nature and wildlife, Maintain and improve the cultural and heritage value of the Estate. | 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. 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. Where possible, work with interested parties to explore ways to maintain or improve features of cultural or heritage value to the local community. | Employ a variety of silvicultural techniques to maintain soil structure, stability and site infrastructure. Identify existing locations of TSIs and demonstrate appropriate management to recruit future veteran trees and increase the volume and distribution of deadwood. Recognise the significance of FC land holding and management in relation to the water catchment area. Management operations will be planned to take into account the habitat requirements of European protected species associated with Forestry Commission land. | Reviewed design pla Recorded reviewed design pla Monitorec when ope on or adja Monitorec rangers a are writter |

Sence Valley Forest Plan 2019 to 2028

be reviewed annualy and any recorded in the sub compartment se.

stock will be recorded in the sub tment data base including the nce and origin of the seed stock. lanting growth rates will be monitored /.

ed every 10 years as part of the olan renewal.

ed every 10 years as part of the olan renewal.

ed on the conservation data base and ed every 10 years as part of the olan renewal.

ed by the beat team and ecologists perational plans are written fo rworks djacent to water.

ed by the ecologists and wildlife annually and when operational plans ten.



6. Meeting and Monitoring Management Objectives (continued)

| National Strategy | District Strategy | Forest Plan Objective | |
|--|--|---|---|
| People: Encourage communities to become involved in the Estate, its management and direction, Provide high quality woodland-based recreational opportunities for people and business, 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. | Provide safe and accessible woodlands. Offering opportunities for quiet recreation and adventurous activities, to enable people to experience the potential health and wellbeing benefits. Encouraging third party environmental educators and other partners to offer learning opportunities on the public forest estate. | Expand the areas of open woodland and network of access routes for the public and links into the surrounding countryside. Continue to work with local businesses to provide a wider range of services and facilities on site. Continue to develop and run a programme of events and activities for the Sence Valley volunteer group and members of the public | No monito No monito Monitored they write |

Sence Valley Forest Plan 2019 to 2028

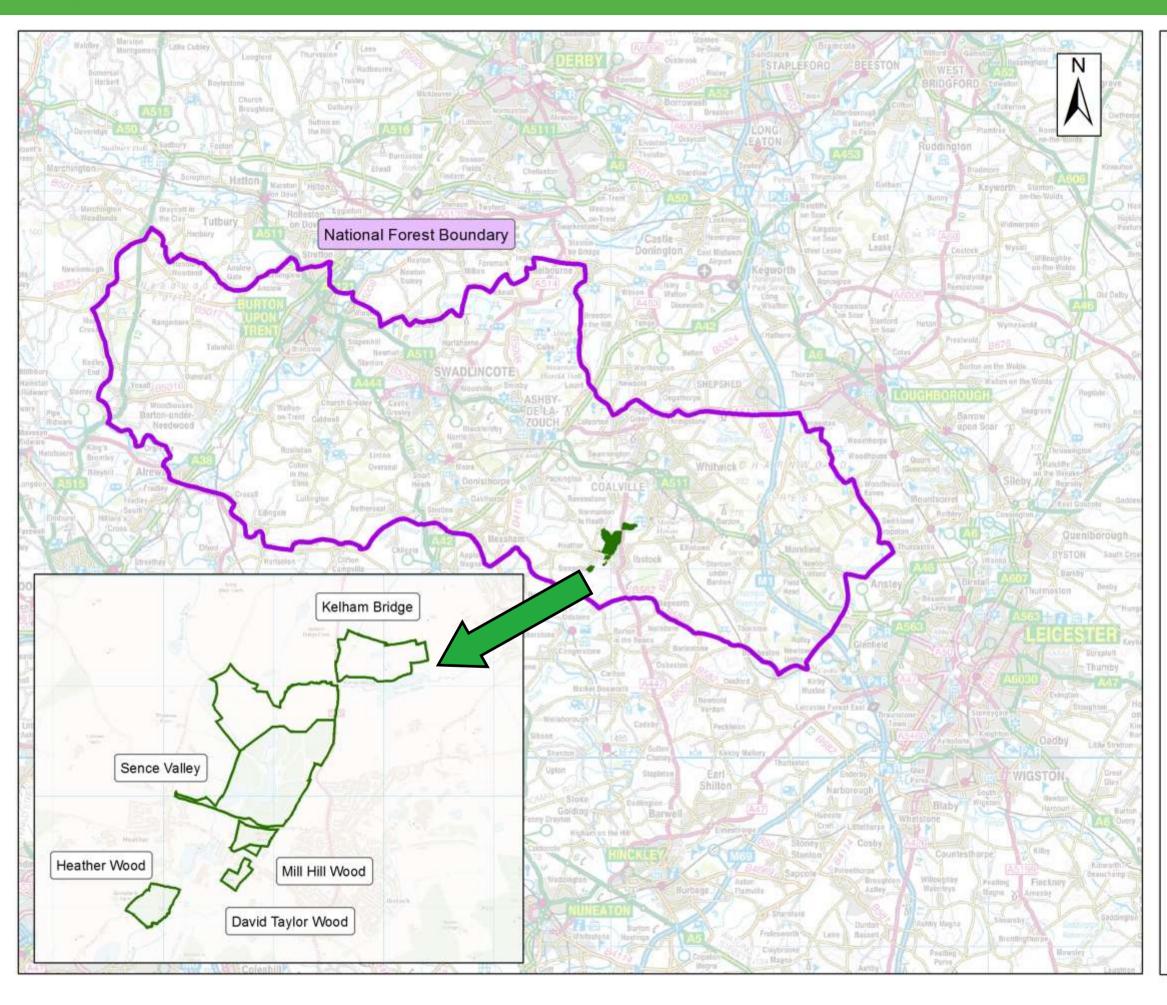
Monitoring

itoring required.

itoring required.

ed by the beat team annually when te their events programme.





Central Forest District

Location Map

Sence Valley Forest Plan lies in a post industrial landscape which is now being transformed as part of The National Forest after decades of coal mining, clay and gravel extraction into a green woodland landscape.

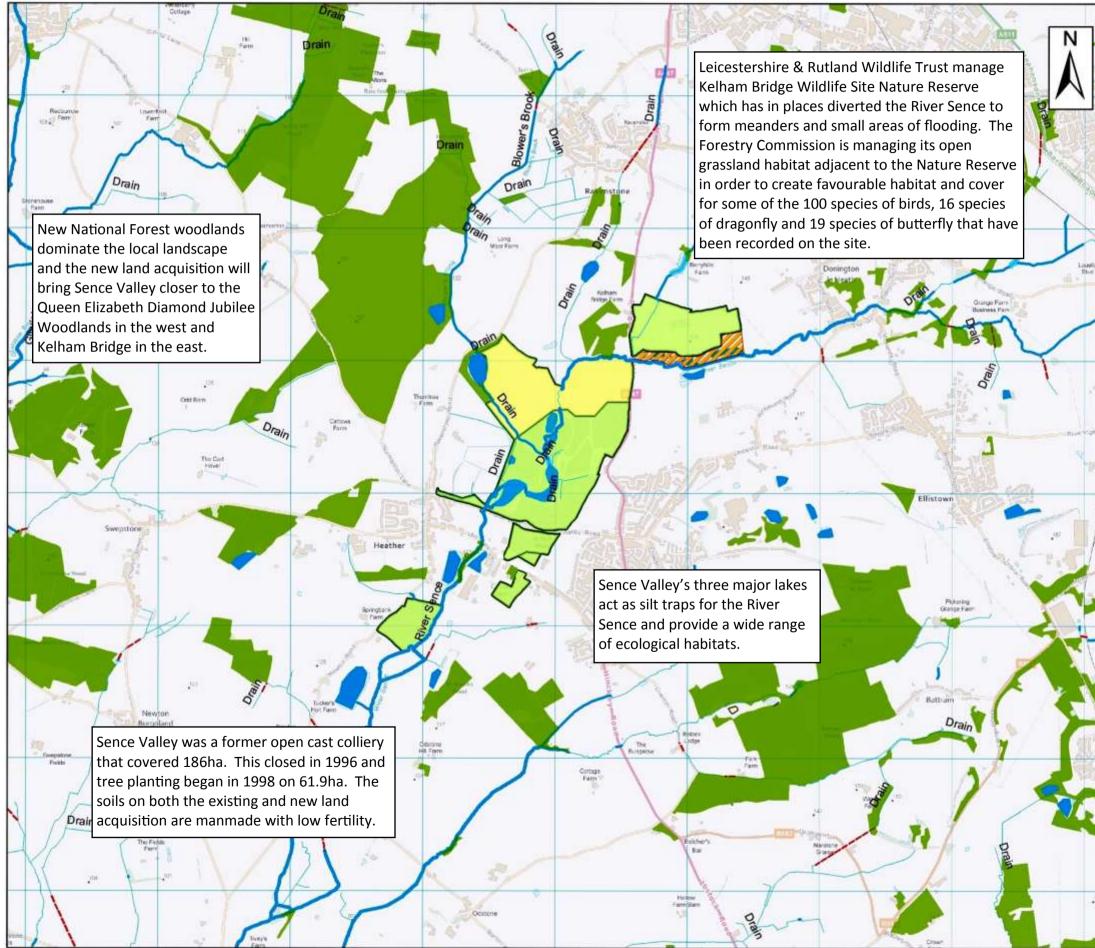
Sence Valley Forest Plan comprises of 5 new woodlands which were all planted in the last 20 years and are popular with local residents for walks, picnics and bird watching.

An additional 48ha of land has now been purchased adjacent to Sence Valley to further expand the woodland habitat and increase pubic access. The new woodland area will include an avenue of cherry trees planted to commemorate the Forestry Commission Centenary in 2019.

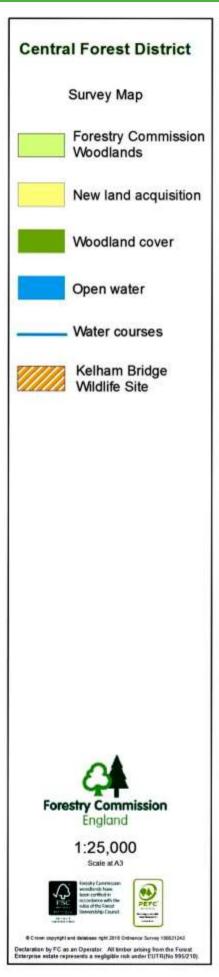


Seclaration by FC as an Operator All timber anxing from the Forest Enterprise estate represents a negligible risk under EUTR(No 995/21)

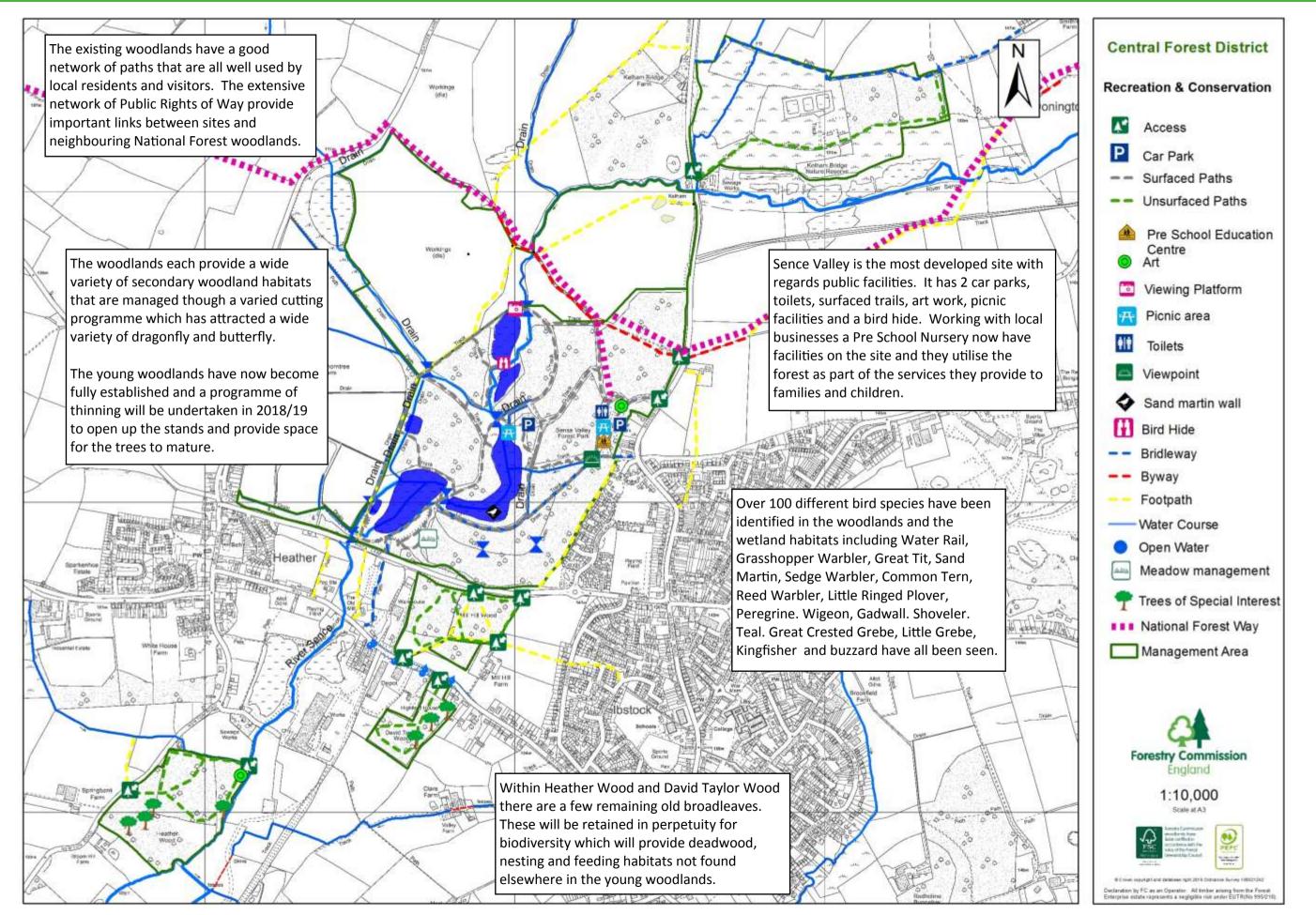




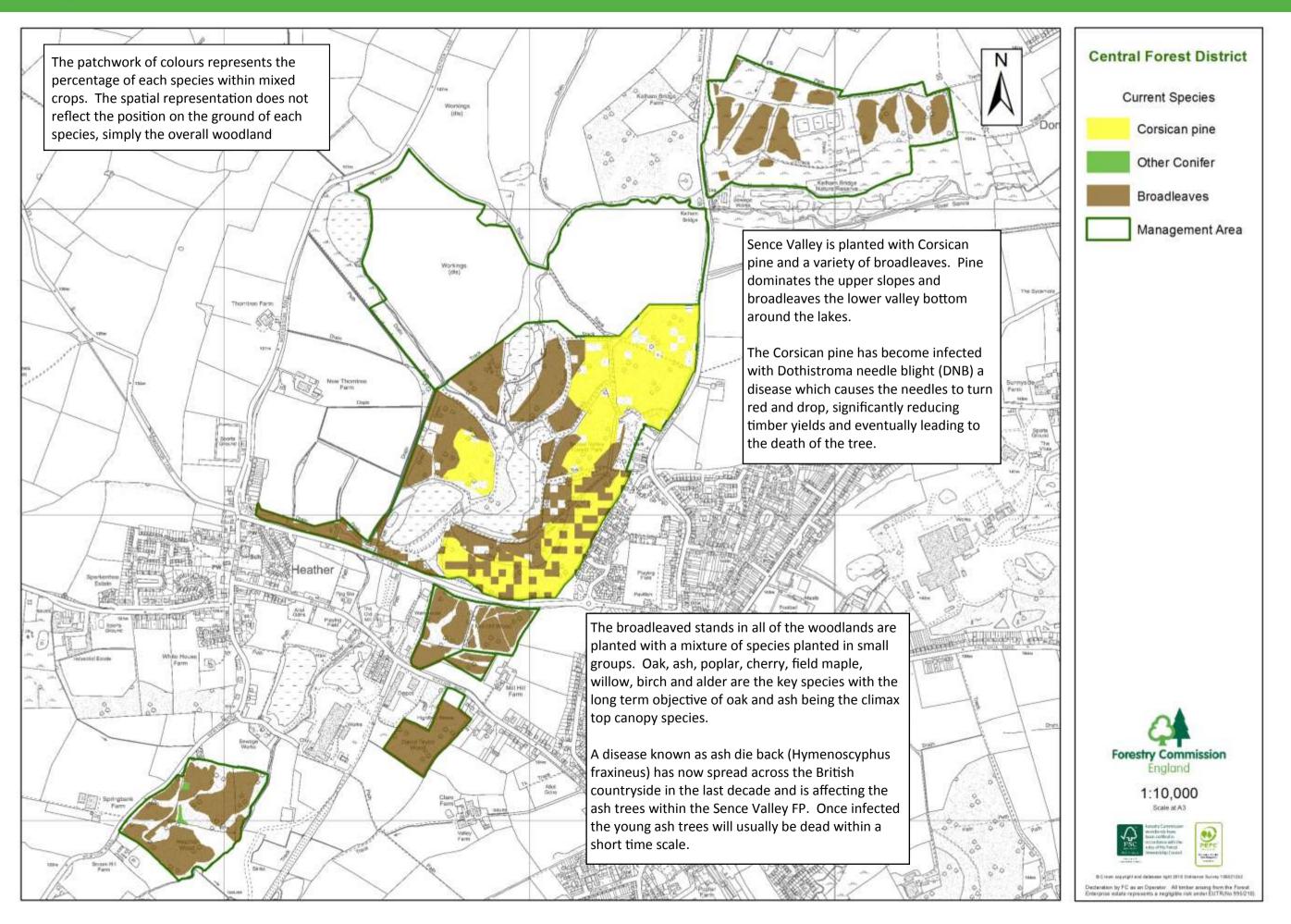




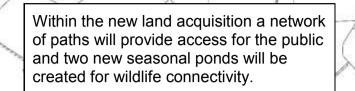












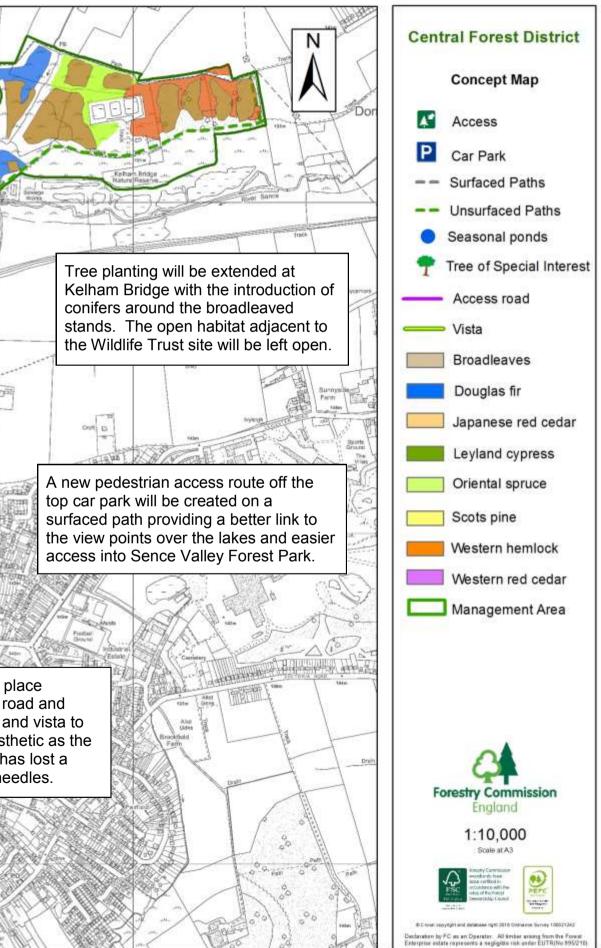
The new woodland will be planted with a mixture of species to create varying patterns of colour and texture for visitors throughout the year. Conifers will dominate but be interspersed with blocks of broadleaves which will diversify the available woodland habitat and cover for wildlife.

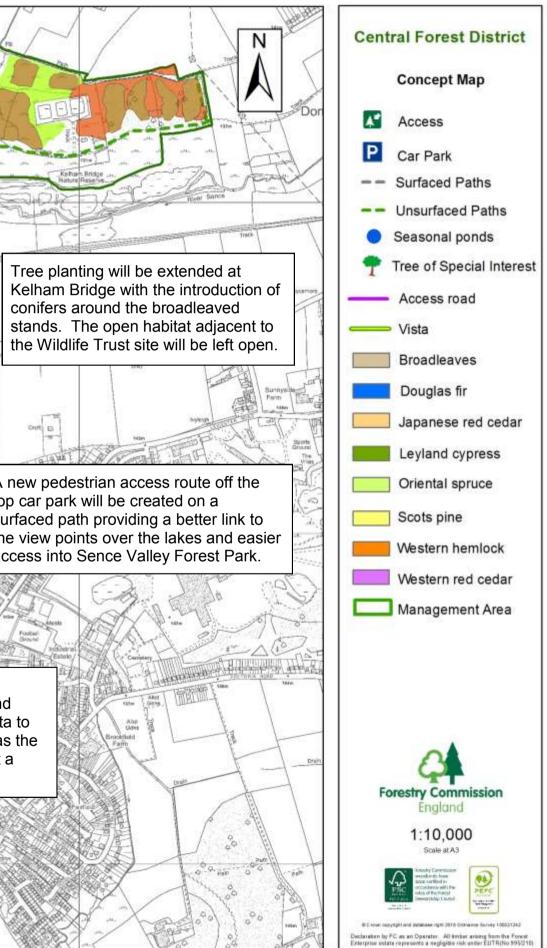
> Within the current mixed broadleaved stands the dead and dying ash will be removed and replanted with groups of broadleaves and conifers which will provide additional cover for wildlife throughout the winter months and provide greater diversity in planting age structure.

100 fill

Sightlines along key access routes from the upper car park and paths linking onto the new planting site will be opened up by removing trees and periodic cutting of vegetation.

The public footpath will be diverted to run parallel to the River Sence and planted with an avenue of cherry trees in celebration of the Forestry Commission Centenary.

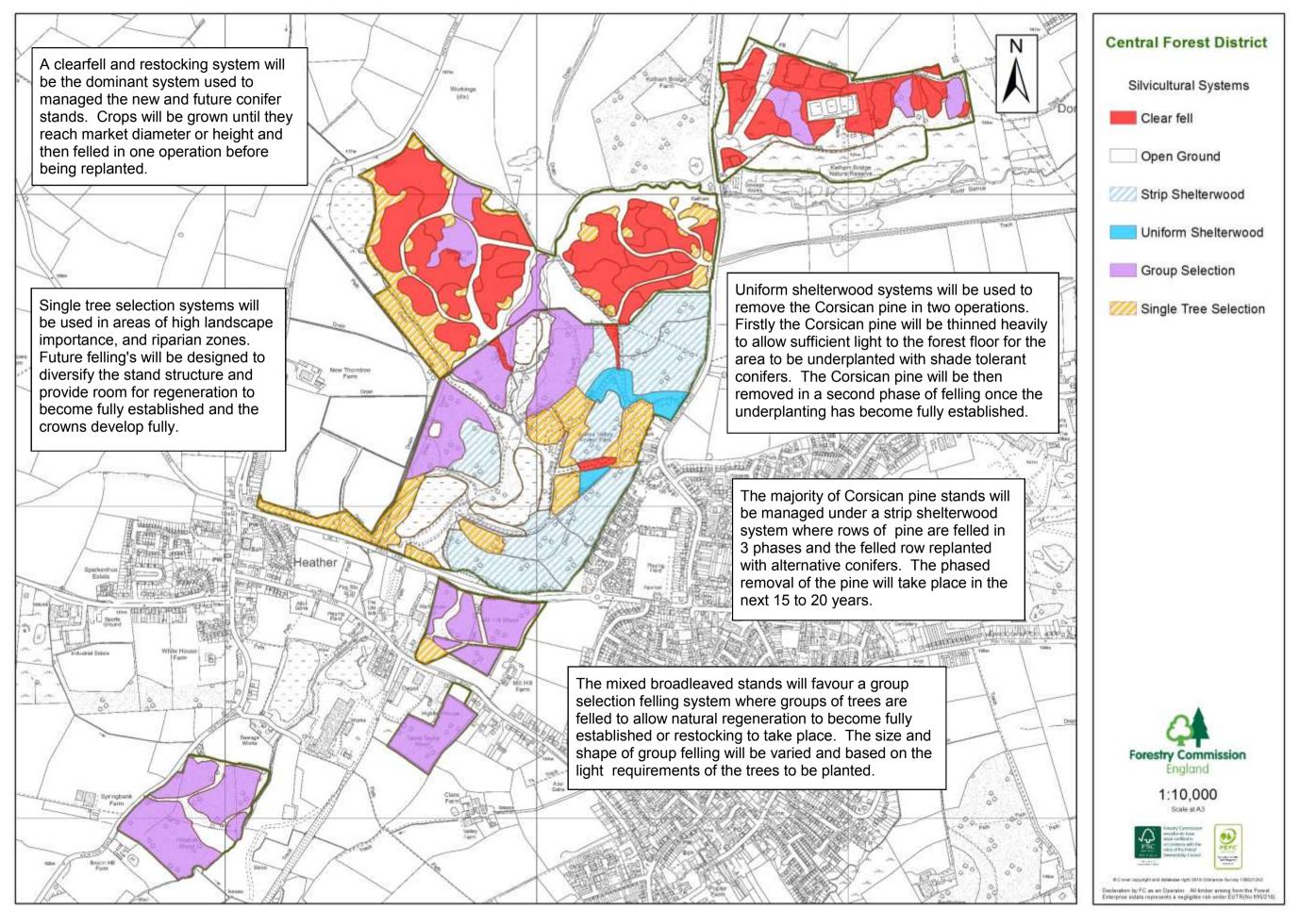




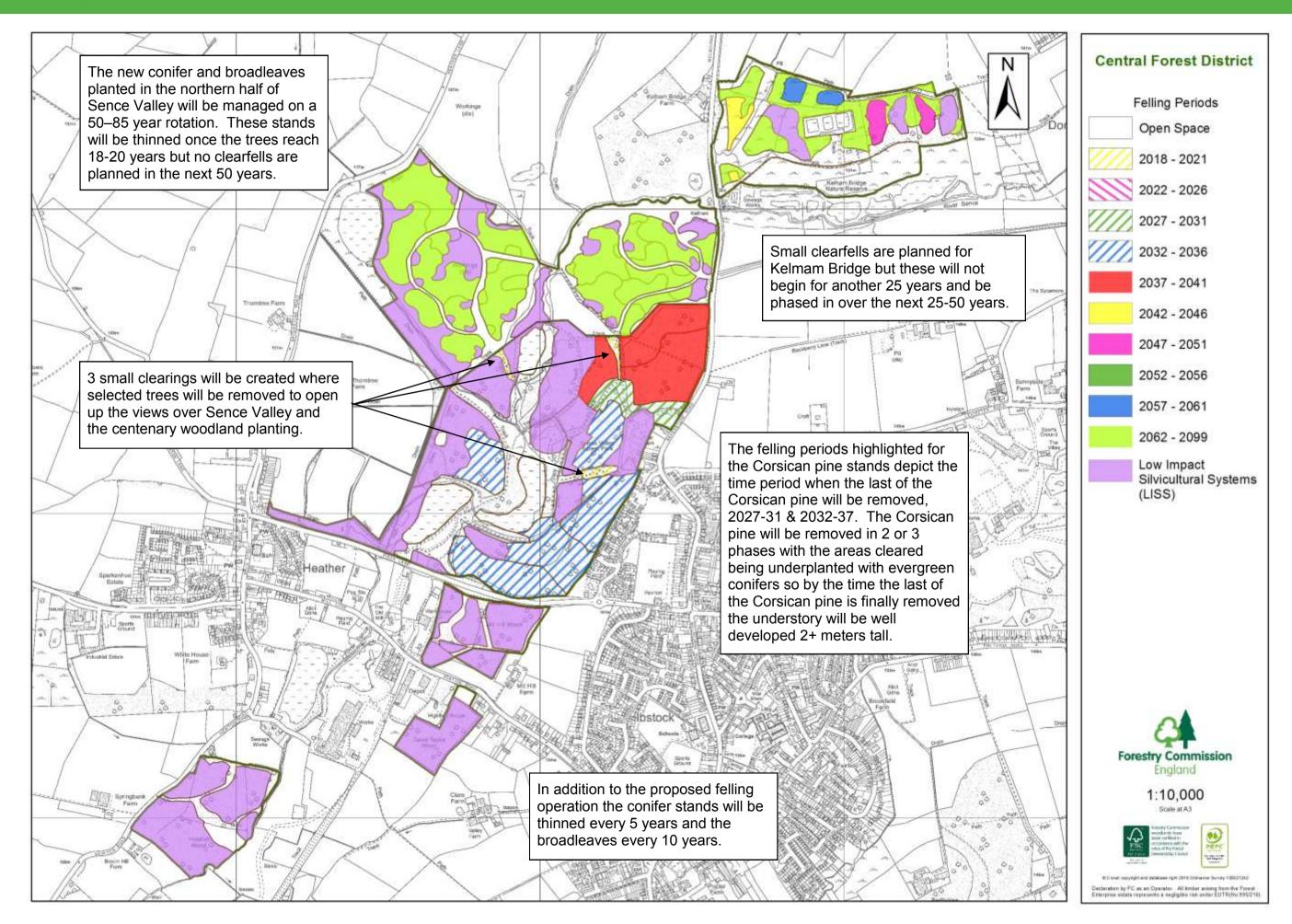
Underplanting will take place adjacent to the access road and between the bridleway and vista to create an improved aesthetic as the existing Corsican pine has lost a large proportion of its needles.

Trees of Special Interest will be retained in perpetuity to provide diversity and increase the availability of deadwood habitats.















2020

2060

In celebration of the Forestry Commission Centenary an avenue of cherry trees has been planted along the public footpath that runs parallel to the River Sence and an additional 48ha of new woodland created.

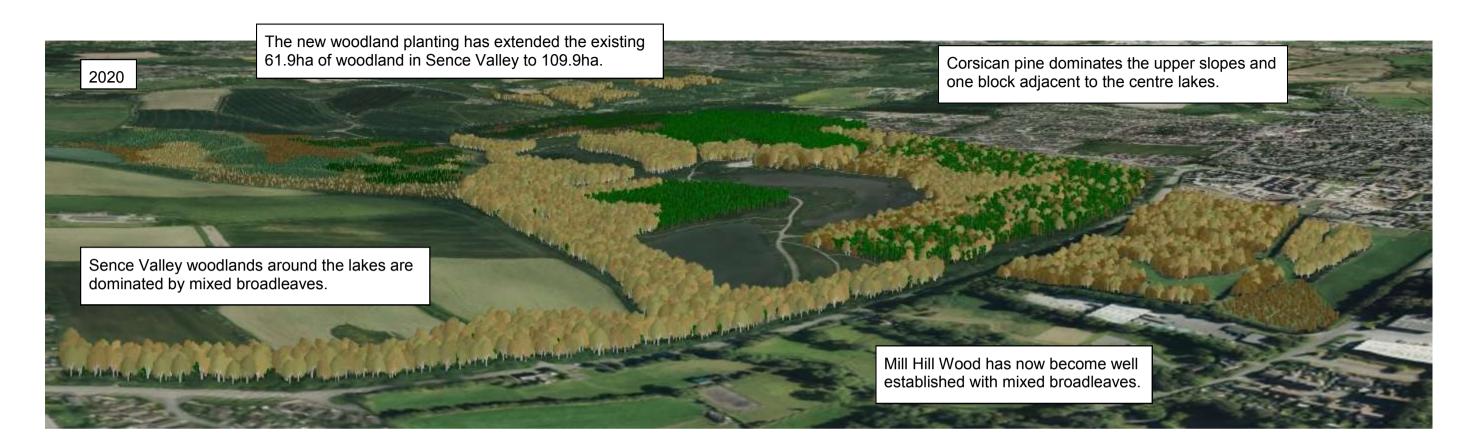
> The uniform stands of conifers and broadleaves will be diversified in the next rotation allowing more mixed stands to develop.

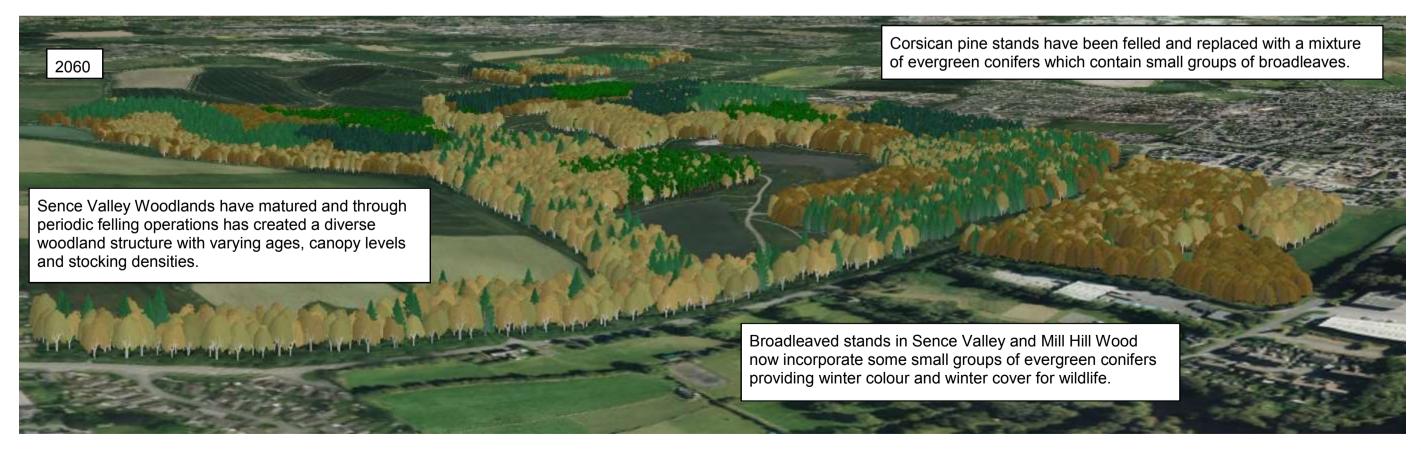
The new woodland uses interlocking shapes to ensure when future felling takes place, it create's a variety of transitional open space and diversifies the internal landscape and aesthetic value for visitors.











Terms of Reference for Sence Valley Forest Plan

| National Strategy | District Strategy | Forest Plan Objective | |
|---|--|---|---|
| Economic: Maintain the land within our stewardship under UKWAS certification, Improve the economic resilience of our woods and forests, Encourage and support business activity on and around the Estate. | Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements. We will use the opportunity presented by additional, unscheduled clear felling 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. | Initiate a structured and sustainable programme of clearfell and thinning to include infrastructure requirements. Select suitable species and appropriate silvicultural techniques to regenerate (either naturally or through planting) commercially productive forests. Ensure stands are more structurally and species diverse making them more resilient to the impacts from climate change, pests and disease. | This will be of the FP r recorded in ESC will b species for forecasts r Districts bu Stocking d species or recorded a plan review |
| Environment, Nature and History: Improve the resilience of the natural environment of the Estate under our Stewardship, Realise the potential of the Public Forest Estate for nature and wildlife, Maintain and improve the cultural and heritage value of the Estate. | 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. 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 Where possible, work with interested parties to explore ways to maintain or improve features of cultural or heritage value to the local community. | Employ a variety of silvicultural techniques to maintain soil structure, stability and site infrastructure. Identify existing locations of TSIs and demonstrate appropriate management to recruit future veteran trees and increase the volume and distribution of deadwood. Recognise the significance of FC land holding and management in relation to the water catchment area. Management operations will be planned to take into account the habitat requirements of European protected species associated with Forestry Commission land. | Silvicultura and will be taking plac to help ma Trees of S habitats wi conservation retained in All operation with the For Conservation when Operation monitored ecologists. |

Sence Valley Forest Plan 2019 to 2028

Monitoring

be reviewed every 10 years as part review process and any changes in the sub compartment data base. be used to help select suitable for each restock site and production run annually to inform the Central business plan of predicted yields. density, growth rates, stems/ha and origin and provenance will be and monitored as part of the Forest ew.

Iral systems shown in the forest plan be reviewed prior to any operations ace and operations will be planned naintain soil stability.

Special Interest (TSI) and deadwood will be identified and recorded on the ation layer of ensure they are in perpetuity.

ation will be carried out in accordance Forestry and Water Guidelines.

ation measures will be reviewed perational plans are written and ed by the Forestry Commission ts.

Terms of Reference for Sence Valley Forest Plan—continued

| People: | Provide safe and accessible woodlands. | Expand the areas of open woodland and | Public acce |
|---|---|--|---------------------------|
| Encourage communities to become involved | Offering opportunities for quiet recreation and | network of access routes for the public and | and mainta |
| on the Estate, its management and direction, Provide high quality woodland-based | adventurous activities, to enable people to experience the potential health and wellbeing | links into the surrounding countryside. | basis throu |
| recreational opportunities for people and business, | benefits. | Continue to work with local businesses to provide a wider range of services and | The beat te |
| Enable everyone, everywhere to connect with the nations' trees and forests so that they | Encouraging third party environmental educators and other partners to offer learning | facilities on site. | monitor exi |
| understand their importance and act positively to safeguard forests for the future. | opportunities on the public forest estate. | Continue to develop and run a programme of events and activities for the Sence Valley volunteer group and members of the public. | The beat te activities th |
| | | | |

Sence Valley Forest Plan 2019 to 2028

cess and facilities will be monitored tained by the beat team on a regular bughout the year.

team and estates department will existing and future contracts with usinesses annually.

team will monitor and review throughout the year.



Appendix II

Glossary

Biological Diversity

The richness and variety of wildlife and habitats.

Canopy

The mass of foliage and branches formed collectively by the crowns of trees.

Clearfell System

The removal of all trees in one operation >0.5ha.

Coupes

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

Ecological Site Classification (ESC)

ESC is an online tool set up by Forest Research that assists a user in choosing a tree species for a given site. The system is built on four climatic variables and two edaphic (soil) properties.

Ecosystems

An ecosystem includes all of the living things (plants, animals and organisms) in a given area, interacting with each other, and also with their non-living environments (weather, earth, sun, soil, climate).

England Forestry Strategy (now England's Trees Woodlands and Forests)

Describes how the Government will deliver its forestry policies in England and sets out the Government's priorities for the next five to ten years.

Forest Enterprise England (FEE)

The part of the Forestry Commission that following devolution is responsible for the management of the Public Forest Estate woodlands in England.

Forestry and Water guidelines 5th edition 2011

Forests and Water is one of a series of seven guidelines that support the United Kingdom Forestry Standard (UKFS). The UKFS and guidelines outline the context for forestry in the UK, set out the approach of the UK government to sustainable forest management, define standards and requirements, and provide a basis for regulation and monitoring including national and international reporting.

Forestry Commission Guidelines

Outline the principles and standards of good management practices in forests and woodlands for landowners, land managers and their advisors.

Forest Plan (FP)

An approved plan that outlines felling operation over a 10 year period, outlining proposals over the next 50 years. The FP's are reviewed every 5 years and redrawn and approved every 10 years.

Glossary

Forest Stewardship Council (FSC)

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

Historic Environment

These are the physical remains of every period of human development from 450,000 years ago and include earthworks, buried remains, structures and buildings.

Landscape Character

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

Lepidoptera

Lepidoptera is an order of insects that includes butterflies and moths.

Long Term Retention

Trees that are being retained beyond their normal economic / commercial age.

Low Impact Silvicultural Systems (LISS)

Describes a number of felling systems (shelterwood, group felling, selection systems) which avoid large scale felling coupes and the forest canopy is maintained at one or more levels.

National Forest

The National Forest is right in heart of the country, embracing 200 square miles of the Midlands with the aim of greening the landscape formally used for heavy industry and coal mining.

Natural Areas

England is divided into 159 distinct natural areas. Each is defined by a unique combination of landscape, biodiversity, geodiversity and cultural and economic activity.

Natural regeneration

The growth of trees from seed found in the soil or cast from adjacent trees and shrubs.

Natural Reserve

Natural reserves are predominantly wooded, are permanently identified and are in locations which are of particularly high wildlife interest or potential. They are managed by minimum intervention unless alternative management has higher conservation or biodiversity value.

Operational Plans (Ops1)

Detailed site plans that are prepared in advance of all major forest operations and identify site constraints, opportunities and areas requiring special treatment or protection.



Glossary

Glossary

Provenance

The geographic locality of a stand of trees from where the seed was collected.

Public Forest Estate (PFE)

The woodlands managed by the Forestry Commission which would include both freehold and leasehold land.

Public Rights of Way (PROW)

Access routes open to the public through legal designation.

Restocking

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

Ride

Forestry term for unsurfaced roads, paths and tracks within a woodland.

Secondary Woodland

Woodlands that have been established on land that was formally used as pasture, meadows, arable, guarries etc and has not continually been wooded

Selective Felling

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

Silvicultural Systems

Techniques of managing a forest through a variety of cutting / felling patterns over varying time scales.

Sub-compartments

Areas of forest comprising a more or less homogeneous crop in terms of age, species composition and condition. Their boundaries may change as the forest develops after felling and restocking.

Strategic Plan

Serves as a guide to the management of woodlands within Central England Forest District. It divides the district into zones for the purpose of management and ensures that forestry activities reflect the local ecological, social and cultural individuality of woodland. Strategic objectives for each zone are presented within the context of the Government's strategic priorities for forestry in England (e.g. forestry for rural development; forestry for economic regeneration; forestry for recreation, access and tourism and forestry for the environment and conservation).

Thinning

The removal of a proportion of the trees in a sub-compartment to improve the quality of the remaining trees, accelerate individual tree growth and provide income.

UK Forestry Standard (UKFS)

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

UK Woodland Assurance Scheme (UKWAS)

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

Trees of special interest (TSI)

A tree that is of interest biologically, aesthetically or culturally because of its age, or a tree that is in the ancient stage of its life, or a tree that is old relative to others of the same species.

Yield Class

Yield class is a measure of the growth rate of a tree crop and is the maximum average rate of volume increment (increase) that a particular crop can achieve. For example, a crop capable of a maximum annual increment of 14 m₃ per hectare has a yield class of 14.