

Cromford & Shining Cliff Forest Plan 2018 – 2068





Certificate of Approval for

Tree Felling

This is to certify that tree felling under Forest Design Plan ref. Central/07 (18) Cromford & Shining Cliff has been approved by the Forestry Commission as being in accordance with Government policy for the sound management of a renewable resource.

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

Signed ... Duun

Forestry Commission Officer

Cromford and Shining Cliff Forest Plan 2018 to 2028

Summary

The Cromford and Shining Cliff Forest Plan (FP) summarises proposals by the Forestry Commission for the management of Cromford (84.7ha) and Shining Cliff Woods (79.1ha) which lie 5km south of Matlock and 17km northwest of Derby respectively. Both woodlands form prominent features in the local landscape, with the 'Black Rocks outcrop at Cromford Moor being the highest ground in the local vicinity and Shining Cliff situated adjacent to the A6 that runs between Derby and Manchester. The FP lies within the "*Derbyshire Peak Fringe and Lower Derwent Landscape character area* which forms a picturesque transitional area between the natural beauty of the Peak District National Park to the west and the largely urban, formerly mined Derbyshire Coal Measures to the east.

Cromford Moor is classified as secondary woodland and is situated on what was once moorland; consequently the regeneration of acidophilous dwarf shrub heath along ride sides and across the newly created open areas is now showing. The plateau is dominated by conifer plantation and the escarpment's with mixed woodland that contain some naturally regenerating native woodland characteristics. Shining Cliff Wood is an ancient woodland site designated as a Site of Special Scientific Interest (SSSI) notified for the ancient semi-natural oak-birch woodland, and the flora and associated fauna of it's wet flushes and stream sides. Blocks of conifers were planted 50 years ago in the northern half of the woodland and these are now scheduled in the FP for removal.

Principle management objectives for the FP will be to remove the invasive conifers from the SSSI and restore these areas back to broadleaved woodland; diversify the species and age structure to mitigate against the impacts of climate change, pests and disease; grow commercial crops on a sustainable basis; manage public access in both woods; conserve the landscape and conservation value of the woodlands. All operations that take place within the SSSI will be carried out in line with the SSSI management plan that has been agreed with Natural England.

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Central Forest District - Cromford and Shining Cliff Forest Plan

Maps

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by



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' long-term 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.

Our aim is to produce a plan that meets your needs for the woodland; meets the needs of the plants and animals that live there and meets our needs as managers.

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, of which this plan forms part, 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 (2018 - 2028) and outline approval for the medium term vision (2028 - 2068). 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 *.

Cromford and Shining Cliff Forest Plan 2018 to 2028

A Application for Forest Plan Approval

i Plan Area Identification:

Forest District:	Central Forest
Beat:	Peak District
Name:	Cromford and
Nearest Town:	Wirksworth
OS Grid Reference:	Cromford
	Shining Cliff
Local Planning Authority	Cromford Der
	Shining Cliff A

ii Designations:

Site of Special Scientific Interest (SSSI)*, Ancient Woodland*, Plantation on Ancient Woodland (PAWs)*, Secondary Woodland* and lies in the Derbyshire Peak Fringe and Lower Derwent Natural Area* Profile No.50,

iii Date of Commencement of Plan

As soon as possible once approved.

Area (ha)	Conifers	Broadleaves
Felling	30.6	
Restocking *	13.6	16.8

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.

*The restocking will be through a combination of restocking, natural regeneration and enrichment planting to reach full stocking in areas to be manged as productive high forest.

t District and South Yorkshire Shining Cliff Forest Plan

SK 295 557 SK 335 530 rbyshire Dales District Council Amber Valley Borough Council

Forestry Commission England

Cromford and Shining Cliff Forest Plan 2018 to 2028

In addition to the above felling 81.4ha 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; encourage initial seeding, 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. This operation will also be supported, where needed by; supplementary planting in order to increase species diversity.

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

I undertake to obtain any permission necessary for the implementation of the approved plan.

molinen low con Signed

Approved Duluy

FDM

District CENTRAL ENGLAND

Conservancy ... East & East Midlands

Date

4.9.18 Date

28/08/18

1. Introduction

This is the first forest plan for Shining Cliff and a renewal of the 2006-2016 Cromford FP for an area of considerable scenic and wildlife conservation value. The plan combines the gradual conversion of the existing conifer components to native broadleaves on AWS (Shining Cliff) with the conservation and enhancement of existing ancient semi-natural woodland and the sustainable production of timber from both Shining Cliff (broadleaves) and Cromford Moor (conifer and broadleaf secondary woodland).

Cromford Moor sits on a gently sloping plateau that falls away steeply along it western and northern edge towards the village of Cromford. This is a popular woodland with locals and tourists with public car parks, waymarked trails, direct access onto the High Peak Trail and a gritstone outcrop known as Black Rocks popular with climbers and walkers, which provides a spectacular view point from its summit.

Shining Cliff lies along an eastern escarpment with poor quality acidic soils across much of the woodland and clay-silt soils in the southeast. This ancient semi-natural oak woodland is one of the few remnants of the mediaeval hunting forest of Duffield Frith, whose documented history is traceable back to 1284. Shining Cliff is a much quieter woodland with limited public access and one waymarked trail.

This FP is guided and directed by a number of policies and strategies - the main documents are summarised in Fig.1. with the FC main objective being to secure and grow the economic, social and natural capital value of the Public Forest Estate* (PFE) for the people of England. Delivering this plan will require the Forestry Commission (FC) to be responsive to shifts in our operating environment and increasingly flexible in our approach, and to sustain this responsiveness over decades to come.

All of our forests and woodlands in this Forest District are certified by the Forest Stewardship Council ® (FSC) and the Programme for the orestry Commission woodlands have **94** Endorsement of Forest Certification[™] (PEFC). All been certified in accordance with the PEFC Forestry Commission forests and woods are rules of the Forest tewardship Council independently certified as sustainably managed, to The mark of consible forestr continue to benefit future generations.







Fig 1. Forestry Commission England's Planning Strategy

National Forest Policy

The FC sets out its vision and aims for Forestry in England at a **National** level. This is outlined in the Strategic Plan for the Public Forest Estate in England.



Forest District Strategic Plan

The District Strategic plan sits between the national and local planning levels and supports the aims and objectives within the districts, according to the FE England National Policy and gives direction for the management of woodlands at a **District** level.



Forest Plans

Forest Plans are used by the FC to demonstrate sustainable forest management on the public estate in the long term and to define a 10 year programme of approved work. They explain how a local area of forest will be managed and why and is produced in consultation with internal and external stakeholders, and following UKWAS, PEFC and UK Forest Standards.



Operational Site Plans (Ops 1's)

Management plan for specific operations on site, undertaken in accordance with the above and by following national guidance as set out in the UK Forest Standard.

Cromford and Shining Cliff Forest Plan 2018 to 2028

2. Management Objectives

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. Initiate a structured and sustained programme of clearfell and thinning to include infrastructure requirements for wildlife and the restoration of AWS. Restore SSSI (AWS) and introduce species that will be better suited to the impacts of climate change, pests and disease on all sites.

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 forest planner.

I

Maintain existing public access and enhance where possible.

Diversify species composition and structure, and plan sympathetically designed and appropriately scaled interventions to improve the visual integration of the forest into the wider landscape.

Conserve where possible historic feature to preserve the links to past landuses.

Diversify woodland edge habitat for aesthetics, conservation and wildlife.

Identify existing locations of TSIs and recruit future veteran trees and increase the volume of deadwood.



2. Review of the old Forest Plans

All the planned harvesting operations outlined in the Cromford FP 2004-2014 were implemented in line with the approved FP. Some of the preferred species for restocking (Corsican pine and larch spp.) were however changed because of Dothistroma needle bight (DNB)* affecting the Corsican pine and the risk from Phytophthora ramorum* to larch. Spruce, pine and fir have been used as the most suitable alternative species based on soils and climatic conditions. The forest structure has become more diverse following recent harvesting operations and a large area (7ha) in the centre of Cromford Moor is now being grazed to create open heathland, Fig 2. Felling patterns have been sympathetic to the landscape and created more open internal views for visitors using the forest trails. The new open woodland habitats have attracted ecotone birds and nighjar have now been heard churring on heathland and restock areas.

Shining Cliff does not have a FP and forestry management objectives have been outlined in the 2017 SSSI management plan. The planned felling and removal of Western hemlock stands from the SSSI did not take place due a lack of an extraction route for the timber. Agreement has now been reached with the local ex-wireworks to use their bridge for extraction. The bridge has a 26 tonne weight restriction which will however limit the speed and scale of extraction.

Management Objectives 3.

3.1 Economic

The long term management objectives for both woodlands is for them to be managed sustainably and produce commercial quality timber from the conifer and broadleaved stands, in line with the other management objectives. A variety of silvicultural* systems will be used to deliver this, giving consideration fto soil and water protection, slope stability and SSSI management agreements, see Silvicultural Systems map. In addition to the planned felling, conifer stands will generally be thinned* on a 5 year rotation and broadleaves on a 10 year rotation. The first thinning operation will begin when conifers reach 20 years and broadleaves 25 years. The timing of these first thinnings may vary depending on the management objectives for specific areas, or light and habitat requirements of native flora and fauna.

The harvesting programme shows predicted yields form both felling and thinning as 31,000m³ over the next 10 years and 143,000m³ over the next 50 years. These figures are based on yield tables* and there is likely to be a short fall in some of the future yields due the effects of DNB and *Phytophthora r*.



Fig. 2. Re-instatement of heathland now being managed through cattle and sheep grazing.

There is a small amount of revenue currently generated from recreation at Cromford Moor but the Forestry Commission will look for opportunities to work with other organisations and user groups to deliver a wider range of education and recreation services that may in the future generate income and employment in the local area. Due to the SSSI status and agreed management proposals for Shining Cliff no additional recreation facilities are planned.



3.2 Ecology

The two woodlands have very different characteristics and ecological interests. Cromford Moor's elevated location (secondary woodland) on former heathland and pasture has acidic soils which supports a less diverse ground flora. The scarp slopes are exhibiting some emerging characteristics of native woodland and these will be conserved through the use of LISS. Shining Cliff is an ancient oak woodland which has a much more diverse range of habitats associated to the east facing escarpment. These vary from acidic soils on the upper slopes through to more fertile clay soils and wet flushes alongside streams, Fig.3.

The diversification of the woodland structure has already begun at Cromford but Shining Cliff is all even aged high forest*. Through the introduction of LISS mixed stands will develop with varying age structure and light levels. This will focus on conserving the ecological value of the SSSI by progressive removal of non-native species. Clearfells which will continue to provide transitional open spaces will open up view points, historical features and provide habitat for ecotone birds.

Management objectives will where appropriate, expand remnant grass and heathland communities commonly confined to ridesides and wayleaves. Woodland edge habitat will be a key consideration when felling operations (including thinning) or restocking take place ensuring more open space with varying light levels is created which will provide space for a herbaceous and shrub layer to develop. This is best achieved by ride and glade widening at appropriate opportunities to maintain ecological interests and the establishment of wider corridors following felling operations.

There is limited deadwood habitat available currently and a selection of individual and small groups of conifers and broadleaves will be retained in perpetuity to create future deadwood habitat and TSI (Trees of Special Interest).. The FC is undertaking a survey of TSI in Shining Cliff and these will be tagged and recorded. Candidate TSI for the future will also be identified, tagged and recorded to ensure a continuity of deadwood habitat longterm. Both small-leaved and large-leaved limes are present as rarities in Shining Cliff and these along with TSI on both sites will be conserved by halo thinning the surrounding trees to ensure adequate light and pace for these specimen trees.

Wet flushes, springs and streams in Shining Cliff will be protected from disturbance and changes in microclimate or water regime. Wet flushes identified as containing bryophyte and associated flora (which require continuous cover and shade) will be managed on a minimum intervention basis to preserve deciduous tree cover and avoid disturbance. All operations



Fig.3 Carpets of bluebells

carried out near any watercourse in Shining Cliff will be in line with the Forestry and Water Guidelines and the Shining Cliff SSSI 2017 plan.

The management plan will continue the long-standing programme of Rhododendron ponticum and Himalayan balsam eradication in Shining Cliff both of which are invasive species and are suppressing the indigenous species associated with ancient oak woodland.



Fig.4 & 5 A rich collection of Lichens can be found throughout the woodands with these photographs taken in Cromford wood.





3.3 People

At Cromford Moor the Black Rocks outcrop, its scree slope and the disused guarry nearby are a popular recreational destination for walkers and climbers. The site is served by two car parks managed by Derbyshire County Council's Countryside Management Service (land is owned by both organisations in this area); there are also two circular recreational walking trails on the site. Additionally the High Peak Trail skirts the northern perimeter of the FC's freehold and makes the site a recreational honey-pot destination. A public footpath runs to the trig point above Barrel Edge Quarry, (see Recreation and Access map.).

Shining Cliff has one promoted trail that passes an old yew tree associated with Betty Kenny (Kate Kenyon), a well-known local historical figure, who lived in the woods in the late 18th century, raising eight children in a charcoal burners house formed within the hollow yew tree; it is thought that the nursery rhyme "Rock-a-bye-baby" may have originated from the use of a hollowed-out bough of the tree as a cradle. Mountain bikes do use the woodlands and regularly cause conflict with the conservation management objectives of the site, particularly in more sensitive areas. There are no formal parking facilities for the public to use and due to the steep topography and sensitive nature of the site access on bike will be discouraged and no new access facilities are planned.

3.4 Cultural Heritage

Shining Cliff Wood was once part of the Royal Hunting Forest of Duffield Frith and within Alderwasley medieval deer park; it is also one of the richest and best preserved sites for woodland archaeology in Derbyshire. Survey work by Carr and Smith 2008, and recent LiDAR* surveys have identified over 100 features which include charcoal platforms, whitecoal kilns, stone lined saw pits and rotary quern-stone rough-outs. Cromford Moor in contrast has little historical features in the main woodland block with records limited to the quarrying around Black Rocks and Barrel Edge, with a quarry tramway and site of a smithy. When forestry operations are carried out all archaeological features will be taken into account and conserved where possible.

4. Future Species and Management

The secondary woodland areas at Cromford Moor will continue to be managed using commercial conifer, broadleaf and mixed crops although future species will be varied due to the current effects of pest and disease and impacts of climate change. Recommended species based on ecological site classification* (ESC) and climate change models produceby Forest Research show Sitka spruce to be the most productive followed by Douglas fir, other spruce species and Scots pine. When restocking takes place the felled areas will be restocked with 2,800 to 4,000 stems /ha depending on each species' preferred habitat requirements.

For the LISS stands natural regeneration will be favoured with enrichment planting used to help diversify the species mixtures and reach full stocking. In the secondary woodland Sessile oak, Sweet chestnut, Sycamore, Aspen and Birch and will be favoured. These will be grown in mixed stands which may include some conifers. In the SSSI at Shining Cliff natural regeneration of the broadleaved stands will be used to restock areas favouring oak as the dominant canopy species and lime, birch, holly, and hazel as secondary species. Alder with ash and elm will be the preferred woodland type



Fig.6 Internal rides in Cromford wood.







Fig.4 Current Landuse



along streams. Stands consisting entirely of conifers will be felled and re-stocked with a mixture of native broadleaved trees and shrubs via natural regeneration or planting if necessary. A small number of sweet chestnut will be accepted (no more than 20%) as a fast growing back-up species, in case of low survival rates of other broadleaves due to damage by grey squirrels. The future FP structure will be largely dominated by broadleaves with a move diverse canopy structure and open rides. Natural regeneration of native trees and shrubs will be encouraged throughout the SSSI and LISS within plan area. However, for the duration of this management plan, natural regeneration of non-native broadleaved trees will not be actively controlled but will be managed as part of future management plans.

Some individuals and small groups of non-invasive conifers will be retained to increase biodiversity in future stands, provide winter cover and roosting sites for high nesting birds.

Table 1. Cromford and Shining Cliff Forest Plan Contribution towards the Central DistrictCommitments to UWAS and UKFS

	Forest Plan Area	Fo Pe
Total Area	163.8	
Total Wooded Area	146.5	
Open Habitat (>10%)	17.3	
Natural Reserves - Plantation (1%)	2.53	
Natural Reserves - Semi Natural (5%)	78.7	
Longterm Retentions & Low Impact Silvicultural Systems (>1%)	121.8	
Area of Conservation Value (>15%) including designations, PAWS, AW, ASNW, NR, LTR and LISS	121.8	

rest Plan Forest District Forest District Percentage Area ercentage 28,121 0.6 100 47.6 23,820 0.6 52.4 3,492 0.5 171 1.5 1.5 342 23.0 48 14,609 0.8 74.4 74.4 15,122 0.8



5. Consultees

The consultation undertaken in the preparation of this plan has been wide ranging and extensive. Full documentation including letters, notes	s of conve
Offices.	

Consultee	Date Contacted	Date Response Received	Issues Raised	Forest Dist
Derbyshire CC	19/3/18	23/4/18	The plan as formulated does not seem to make any reference to historic environment/cultural heritage, and I feel that this is a significant omission particularly with reference to Shining Cliff.	The FC will amend the of Cultural significance of the the many features found the FC digital mapping so when forestry operations
British Mountaineering Council (BMC)	19/3/18	18/4/18	Supportive of the main objectives but would like to see a more rigorous review of current recreation facilities, promoting new waymarked trails and consideration for the expected increase in access in the future.	Recreation does not forr outlines forestry harvest BMC comments will be p that their thoughts can b review their own manage facilities in the area.

Comments received and the Forestry Commission's responses will be recorded above.

rsations etc. are held at our District

rict Response to Issues

draft plan to include reference to the the woodlands and outline some of d there. These will be recorded on system to be taken into account is take place. m part of the Forest Plan which ting and restocking operations. The

passed onto the recreation team so be taken into account when they gement objectives for recreation

ries and on the FC website.



6. Meeting and Monitoring Management Objectives

National Strategy	District Strategy	Forest Plan Objective	
Economic: Maintain the land within our stewardship under LIKWAS	Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements	Initiate a structured and sustained programme of clearfell and thinning to include infrastructure requirements.	This will be of the FP re recorded in
 Improve the economic resilience of our woods and forests, Encourage and support business 	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	Select suitable species and appropriate silvicultural techniques to regenerate (either naturally or through planting) commercially productive forests.	species for forecasts ru Districts bus Stocking de
activity on and around the Estate.	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.	Ensure stands are more structurally and species diverse making them more resilient to the impacts from climate change, pests and disease.	recorded ar
 Environment, Nature and History: Improve the resilience of the natural environment of the Estate under our Stowardobin 	Adapting more sensitive timber harvesting arrangements and adopting recent FC guidance on forest operations to reduce the impact of forest operations on soils and	Employ a variety of silvicultural techniques to maintain soil structure, stability and site infrastructure. Restore the SSSI (AWS) by the gradual	Silvicultural plan and wil operations t stability.
 Realise the potential of the Public Forest Estate for nature and wildlife, Maintain and improve the cultural and heritage value of the Estate. 	 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 3) Where possible, work with interested parties to explore ways to maintain or improve features of cultural or heritage value to the local community. 	removal of exotic species over the next 20years, introduce a wide distribution of species that will be better suited to the impacts of climate change, pests and disease. Identify existing locations of TSIs and demonstrate appropriate management to recruit future veteran trees and increase the volume and distribution of deadwood. Ensure the timing and scale of forest management proposals complement the	of a wider ra via the subo the FP revie Trees of Sp deadwood h recorded or they are reta The 5 year assessment based on in
Poople:	Provide safe and accessible woodlands	SSSI management objectives and habitat requirements.	As part of th
 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 	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	and plan sympathetically designed and appropriately scaled interventions to improve and maintain the visual integration of the forest boundaries into the wider landscape. Continue to work with Derbyshire CC ranger service in the provision and maintenance of car parks, trails and interpretation.	As part of the visual in landscape v to ensure the Any change plan. Public acce
connect with the nations' trees and forests so that they understand their importance and act positively to safeguard forests for the future.	estate.		and maintai regular basi

Monitoring

reviewed every 5 years as part eview process and any changes the sub compartment data base. e used to help select suitable each restock site and production un annually to inform the Central siness plan of predicted yields. ensity, growth rates, stems/ha s origin and provenance will be nd monitored

l systems are shown in the forest ill be reviewed prior to any taking place and maintain soil

tion of AWS and the introduction ange of species will be monitored compartment database as part of ew process.

- ecial Interest (TSI) and
- habitats will be identified and the conservation layer of ensure ained in perpetuity.
- review of the SSSI habitat t will measure the improvement idicator species.

ne design plan review process mpact of harvesting operations on will be made from key viewpoints neir design is still appropriate. es will be recorded in the revised

ess and facilities will be monitored ined by the beat team on a is throughout the year.





Central Forest District

Location Map Cromford Moor and Shining Cliff Woods lie within the Derwent Valley that extends from Cromford south to Derby. The past industrial landscape is now predominantly rural, being wellwooded in the valley bottoms rising up to become more open pasture on the upper slopes. Situated but a few kilometres away from the Peak District the area attracts a large number of visitors and Black Rocks at Cromford Moor is a busy honeypot site.





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@ Ormon sage fight and database right 2018 Crohenia Burrier 12 e dambion by FC es en Operator. All limber en sing Porn ihe Forest hierprise asiste represents a negligble risk under 2017 (No 1951/212)



Dean Hol

The High Peak Trail skirts the northern perimeter of Cromford Moor and makes the site a recreational honey-pot destination. A public footpath runs to the trig point above Black Rocks, and there are two Forest Trails within the woods.

The Black Rocks outcrop (Cromford Moor), its scree slope and the disused quarry nearby are a popular recreational destination for walkers and climbers. The site is served by two car parks managed by Derbyshire County Council's Countryside Management Service (land is owned by both organisations in this area); there are also two circular recreational walking trails on the site.

WIRKSWORTH

Cromford Moor is an FC freehold woodland and has designated open access land. Shining Cliff is leasehold and the publics right of access is limited to the designated trail and public right of way.

3

There is one Forest Walk within Shining Cliff and a public footpath running from the grounds of Alderwasley Hall to the ex-wireworks. The wood is used regularly by local walkers from the Whatstandwell and Ambergate areas. There is no formal car park.

> Some informal mountain biking takes place in Shining Cliff, although the use by downhill riders has been discouraged due to the inappropriate digging activity which posed a threat to fragile habitats within the SSSI.



Central Forest District				
Recrea	ation and Access			
0	Information			
**	Picnic Area			
6	View Points			
Ρ	Car Parks			
	Forest Roads			
~~~	Promoted Trail			
	Bridleway			
	Footpath			
X	Private Bridge			
• Viewpoint				
Management Area				
C				
Forestry Commission				
1:20,000				
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S Developed and tractice right Unit Secretice Survey, 1992-045 Declaration by FC as an Operator. All temper science from the Ported				





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![](_page_20_Picture_1.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_21_Picture_1.jpeg)

![](_page_21_Figure_2.jpeg)

![](_page_22_Picture_0.jpeg)

### Appendix I

### Terms of Reference for Cromford and Shining Cliff Forest Plan

District Strategy	Forest Plan Objective	
Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements.	Initiate a structured and sustained programme of clearfell and thinning to include infrastructure requirements.	This will be reviewed review process and a compartment data ba
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.	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.	ESC* will be used to each restock site and annually to inform the of predicted yields. Stocking density, gro origin and provenand
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.	<ul> <li>Employ a variety of silvicultural techniques to maintain soil structure, stability and site infrastructure.</li> <li>Restore the SSSI (AWS) by the gradual removal of exotic species over the next 20years, introduce a wide distribution of species that will be better suited to the impacts of climate change, pests and disease.</li> <li>Identify existing locations of TSIs* and demonstrate appropriate management to recruit future veteran trees and increase the volume and distribution of deadwood.</li> <li>Ensure the timing and scale of forest management objectives and habitat requirements.</li> </ul>	Silvicultural systems will be reviewed prior and maintain soil sta The restoration of AV wider range of specie subcompartment dat process. Trees of Special Inte will be identified and layer of ensure they The 5 year review of measure the improve
<ul> <li>Provide safe and accessible woodlands.</li> <li>Offering opportunities for quiet recreation and adventurous activities, to enable people to experience the potential health and wellbeing benefits.</li> <li>Encouraging third party environmental educators and other partners to offer learning opportunities on the public forest estate.</li> </ul>	Diversify species composition and structure, and plan sympathetically designed and appropriately scaled interventions to improve and maintain the visual integration of the forest boundaries into the wider landscape. Continue to work with Derbyshire CC ranger service in the provision and maintenance of car parks, trails and interpretation.	As part of the design impact of harvesting made from key viewp still appropriate. Any revised plan. Public access and fa maintained by the be throughout the year.
	District Strategy           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.           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.           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.	District Strategy         Forest Plan Objective           Adapting our management practices to suit the character and requirements of local woodlands whilst satisfying national standards and business requirements.         Initiate a structured and sustained programme of clearfell and thinning to include infrastructure 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.         Select suitable species and appropriate silvicultural techniques to regenerate (either naturally or through planting) commercially productive forests.           Adapting more sensitive timber harvesting arrangements and adopting recent FC guidance on forest operations to reduce the impact of forest operations to reduce the impact of forest mapacts of grazing and disturbance to native habitats impacts of grazing and disturbance to native habitats and their flora and Fauna         Employ a variety of silvicultural techniques to maintain soi structure, stability and site infrastructure.           Where possible, work with interested parties to explore ways to maintain or improve features of cultural or heritage value to the local community.         Ensure the timing and scale of forest management topsecies the volume and distribution of deadwood.           Provide safe and accessible woodlands. Offering opportunities for quiet recreation and daventurous activities, to enable people to experience public forest estate.         Diversify species composition and structure, and plan sympathetically designed a

Monitoring
every 5 years as part of the FP any changes recorded in the sub ase.
help select suitable species for I production forecasts run e Central Districts business plan
wth rates, stems/ha and species e will be recorded and monitored
are shown in the forest plan and to any operations taking place pility.
VS and the introduction of a es will be monitored via the abase as part of the FP review
rest (TSI) and deadwood habitats recorded on the conservation are retained in perpetuity.
the SSSI habitat assessment will ment based on indicator species.
plan review process the visual operations on landscape will be points to ensure their design is changes will be recorded in the
cilities will be monitored and at team on a regular basis

![](_page_23_Picture_0.jpeg)

#### Appendix II

Glossary

#### Ancient woodland

Is a woodland that has existed continuously since 1600 or before in England, Wales and Northern Ireland (or 1750 in Scotland.

### **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.

#### **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.

#### Lidar

Lidar uses ultraviolet or near infrared light to image objects. It can map ground vegetation or strip away vegetation to just show the terrain to a very high resolution.

#### 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.

#### 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.

#### Origin

The geographic locality within the natural range of a species where the parent seed source or its wild ancestors grew.

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#### Glossarv

#### Planation's on Ancient Woodland Sites (PAWS)

They are ancient semi-natural woodlands on which the original, "natural" woodland was cleared, and replaced by a plantation of either native or exotic species.

#### 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.

#### **Scheduled Monuments**

Nationally important archaeological sites which are protected under the Ancient Monuments and Archaeological Areas Act, 1979.

#### Secondary Woodland

Woodlands that have been established on land that was formally used as pasture, meadows, arable, quarries 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.

#### Site of Special Scientific Interest (SSSI)

IS a formal conservation designation given by Natural England in England and are protected by law to conserve their wildlife and or geology.

#### 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.

#### Glossary

#### 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.

#### **Yield Tables**

The Forest Yield tables present values for all the main growth and yield variables for a sequence of stand ages, showing the volume in cubic meters that is available from both thinning and harvesting operations.

![](_page_25_Picture_0.jpeg)

No.1 Black Rocks and Barrel Edge—view from the west on the B5035 2017

![](_page_25_Picture_3.jpeg)

![](_page_26_Picture_0.jpeg)

![](_page_26_Picture_2.jpeg)

![](_page_27_Picture_1.jpeg)

### Viewpoint No.2 Cromford wood viewed from Holloway village 2017

![](_page_27_Figure_3.jpeg)

![](_page_28_Picture_0.jpeg)

### Viewpoint No.2 Cromford Moor viewed from Holloway Village 2027-2068

![](_page_28_Picture_3.jpeg)

![](_page_29_Picture_0.jpeg)

### Viewpoint No.3 of Shining Cliff from Whatstandwell railway station on the A6

![](_page_29_Picture_3.jpeg)

![](_page_29_Picture_4.jpeg)

![](_page_30_Picture_0.jpeg)

Viewpoint No.3 of Shining Cliff from Whatstandwell railway station on the A6 2027 - 2068

![](_page_30_Picture_3.jpeg)

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![](_page_31_Picture_0.jpeg)

### Viewpoint No.5 Shining Cliff from Chadwick Nick Lane, Fritchley

![](_page_31_Picture_3.jpeg)

![](_page_31_Figure_4.jpeg)

![](_page_32_Picture_0.jpeg)

#### Viewpoint No.5 Shining Cliff from Chadwick Nick Lane, Fritchley

![](_page_32_Figure_3.jpeg)

Shining Cliff ihas now reverted to a broadleaved woodland with only isolated or small groups of non-invasive conifers being retained for high nesting birds, winter cover, aesthetics and biodiversity.

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