

## Regulation 21 of the Habitats Regulations 2010

Casework Tracker Ref.

Assessment made by

(where applicable)

XXXX EU Site

UK0030280

Code Ref.

Date:

UK9007021

21<sup>st</sup> August 2013

Case name Midhope Moor HLS Agreement & MMP

Application/Project: Midhope HLS Agreement

**European Site(s):** South Pennine Moors Special Area of Conservation

Richard Pollitt

(SAC)

Peak District Moors (South Pennine Moors Phase 1)

Special Protection Area (SPA)

Component SSSI(s): The Dark Peak and Eastern Peak District Moors SSSI's

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Appendix 1 The submitted proposal



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### **Assessment summary**

This Habitats Regulations Assessment of the Moorland Management Plan for Midhope Moor HLS Agreement and Moorland Management Plan under Regulation 21 of The Conservation of Habitats and Species Regulations 2010 has concluded that it cannot be ascertained that the proposed operations **will** adversely affect the integrity of the site or its notified features and that the proposed notice will not have a beneficial effect on the European Site.



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### PART A – Introduction and Information about the project

#### A1. Introduction

This is a record of the Habitats Regulations Assessment undertaken by Natural England of this application which affects the South Pennine Moors Special Area of Conservation (SAC) and the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area (SPA).

The application constitutes a request to Natural England for permission to carry out, cause or permit to be carried out an operation(s) listed by a SSSI notification by way of a management agreement (hereby referred to as 'the project').

Where such a proposal also affects a European Site, Regulation 21 of the Conservation of Habitats and Species Regulations 2010 (the "Habitats Regulations") requires an assessment to be made of such proposals to secure compliance with the EC Habitats Directive (Council Directive 92/43/EEC).

Natural England may only give consent to the proposal where it is able to ascertain that the proposal will have no adverse effect on the integrity of the South Pennine Moors Special Area of Conservation (SAC) and the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area (SPA) European Sites.

### A2. Details of the project

Type(s) of project:	HLS Moorland Agreement
Location of project:	Midhope Moor, Langsett, Sheffield
Applicant:	Wakefield Farms Ltd
National Grid Reference:	SK215985
Summary of the project and its	Improvements to consented burning (reduction
constituent elements:	in the area of blanket bog under burning
	management and increase in the rotation
	period), grip blocking, and re-vegetation of bare
	and damaged peat, and bracken control.



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PART B: Information abitats Regulations As sessment (HR

## B1. Description of the take Regulations Assets mandalines

South Pennine Moors Special Area of Conservation SAC

## Annex I habitats that are a primary reason for selection of this site

- Blanket bogs\* (\*prittatish Regulations Assessment (HR)
- Northern Atlantic wet heaths with Eriona telephone Atlantic w
- itats Regulations Assessment (Heaths
- Northern Atlantic w

Annex I habitats present as a qualifying feature, but not a primary reason for selection of this site

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#### Article Montoerali Attaction

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- itats Regulations Assessingent (HrRat Britain
- Northern Atlantic w
- Shortherared and it with the Regulations i Assessment (HR ast 2.5% of the
- i**tats Regulations Assesismeot்.(HR**on in Great Britain Northern Atlantic w

Subsequent to a JNCC Review of Special Protection Areas (published 2001), it was indicated by UK Government that the following species should be treated as qualifying species for this SPA and are therefore thought as such for the purposes of this assessment.

- Peregrine Falco peregrinus, 16 pairs representing at least 1.4% of the breeding population in Great Britain
- Dunlin Calidris alpina schinzii, 140 pairs representing at least 1.3% of the breeding Baltic/UK/Ireland population



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#### **PART C: Screening of the project**

There are two screening stage tests required under Regulation 21 (transposing Article 6(3) of the Habitats Directive):

#### C1. Test: Necessary to management (of the European site)

## For SAC habitat features

It is considered that blanket bogs can be generally regarded as a near-natural or climax habitat, which means that the nutrient poor and waterlogged vegetation has reached a steady natural state and a naturally diverse structure and can sustain itself without grazing, burning or any other interventions. Where previous damage has occurred, some areas of blanket bog may require restoration of natural hydrology (i.e. rewetting) to restore its naturally peat-forming ability. Additional measures may also be required to reduce the dominance of species such as heather and purple moor-grass. Blanket bog habitats should not be re-classified as dry or wet heath despite having a vegetation type more characteristic of these habitats unless peat depth is less than 50 cm. It might be possible that a single, one-off and highly-controlled burn can contribute to the restoration of blanket bog habitat (for example, as an initial treatment) in order to revert degraded bog vegetation now dominated by heather or purple moor-grass to bog or wet heath habitat. Therefore, in these very specific circumstances, where the operation has the necessary safeguards built in and forms part of an agreed restoration plan (that includes other necessary restoration or conservation measures) it may be considered as being directly connected with or necessary to the management of the site. Burning regimes are known to affect bog/mire habitats, leading to reductions in or loss of key species (both plants and animals), reduced structural diversity and a greater dominance of species which are less typically associated with the habitat in question (i.e. areas of deeper peat becoming dominated by Calluna, cotton sedge or grasses such as Molinia). When blanket bog is damaged, carbon sequestration is likely to be halted or reduced and carbon can be released through oxidation, particulate and solute erosion. Grazing affects vegetation composition and structure, depending on stocking density and the timing and duration of grazing. At high stocking densities, grazing action favours vigorous grasses which are able to outcompete the characteristic species which form the respective vegetation communities. Localised nutrient enrichment and excessive poaching or trampling of the ground may result. Blanket bog is particularly sensitive to grazing, being very unproductive and being a habitat which is only partly, under certain circumstances, dependent on grazing to maintain its special scientific interest. Grazing can either maintain or reduce the cover of dwarf shrubs and other plants. Winter grazing regimes often result in the need



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for supplementary feeding of livestock, such as the use of mineral licks which if kept in the same location over long periods can cause localised but significant damage to upland vegetation, further promoting changes to a grass-dominated vegetation community. Natural England considers that the appropriate stocking density for the restoration of blanket bog is 0.018 LU/ha and that that the appropriate stocking density for its maintenance 0.035 LU/ha.

It is considered that **North Atlantic wet heaths with** *Erica tetralix* on shallow peat is a plagio-climax community which requires light grazing to maintain its state and prevent its ecological succession to woodland. Burning, as this favours more competitive species over more characteristic species, should be avoided. Natural England considers that the appropriate stocking density for the restoration of wet heath is 0.022 LU/ha and that that the appropriate stocking density for its maintenance 0.044 LU/ha.

It is considered that **European dry heaths** are a plagio-climax community that can require some form of management intervention, either light grazing with livestock or careful burning, to maintain its open state and prevent ecological succession to woodland in local circumstances. Natural England considers that the appropriate stocking density for the restoration of dry heath is 0.051 LU/ha and that that the appropriate stocking density for its maintenance 0.101 LU/ha.

Natural England has considered Midhope Moor HLS & Moorland Management Plan under Regulation 21 (1)(b) of The Conservation of Habitats and Species Regulations 2010 and has decided that it is necessary for the management of the South Pennine Moors Special Area of Conservation SAC for the following features;

- Blanket Bog\* (\*priority habitat type).
- Upland dry dwarf shrub heath

#### For SPA features

Burning practices can affect the vegetation composition and structure of nesting and feeding habitat; can kill/injure or disturb birds and their nests, eggs and young if undertaken in spring and research has shown that when coupled with predator control, may benefit some breeding waders such as golden plover. Upland habitats support internationally and nationally important numbers of birds. It is generally regarded however that no upland bird species have a specific requirement for intensively managed moorland managed by burning. Burning on blanket bog <u>may</u> be considered necessary when it can be clearly demonstrated that the activity is an essential component of habitat management for a particular bird species that is a SPA feature. It must be clearly demonstrated that there are no other suitable habitats that the species



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will and can use instead, and that burning is a key element of maintaining a population that would otherwise be in unfavourable condition at the site level. Supporting evidence might include the regular and historic use of burned blanket bog by a viable population of the species, the need to create a link between two or more, currently isolated populations of the species, the use of the blanket bog by the species for a significant proportion of its lifecycle or where there are no opportunities for the creation or restoration of other suitable habitat. Grazing affects vegetation composition and structure of nesting and feeding habitat. Stock can disturb birds and/or trample nests depending on stocking density and the timing and duration of grazing. At high densities, vegetation can be over-grazed, favouring competitive grasses and resulting in localised nutrient enrichment and excessive poaching or trampling of the ground. Blanket bog is particularly sensitive to grazing being very unproductive and a habitat which is not dependent on grazing to be maintained. Grazing can either maintain or reduce the cover of dwarf shrubs and other plants. Winter grazing regimes often result in the need for livestock feeding such as the use of mineral licks which is kept in the same location over long periods can cause significant changes and damage to upland heathland vegetation, further promoting changes to grass-dominated vegetation. The presence of large numbers of livestock, and potential carrion, can encourage avian and mammalian predators, which also predate ground-nesting birds.

Natural England has considered the Midhope Moor HLS Agreement and Moorland Management Plan under Regulation 21 (1)(b) of The Conservation of Habitats and Species Regulations 2010 and has decided that the proposal is not necessary for the management of the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area SPA for the following features;

- Golden Plover *Pluvialis apricaria*, 752 pairs representing at least 3.3% of the breeding population in Great Britain (Count as at 1990)
- Merlin Falco columbarius, 77 pairs representing at least 5.9% of the breeding population in Great Britain
- Short-eared Owl Asio flammeus, 25 pairs representing at least 2.5% of the breeding population in Great Britain
- Peregrine Falco peregrinus, 16 pairs representing at least 1.4% of the breeding population in Great Britain
- Dunlin *Calidris alpina schinzii*, 140 pairs representing at least 1.3% of the breeding Baltic/UK/Ireland population



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#### C2. Test: Likelihood of significant effects (LSE)

#### C2.1 Alone

This section details how the submitted project proposals may have a likely significant effect(s) alone, after each of the project elements are tested against each of the European site features and an assessment of their vulnerability to potential effects using best available evidence and information is made

Measures that would avoid or reduce the likelihood of significant effects arising and are already integral to the project as submitted have been taken into account at this stage.

Interest	Potential effects	Mechanism	Measures which	Likely
feature			may mitigate the	Significant
			potential effects	Effect?
SAC	Burning	23 year	reduce the area	Yes
			of blanket bog	
Blanket bog	1) Promote the dominance of fire-tolerant species, including heather Calluna		under burning	
	vulgaris, or graminoids such as purple moor grass, hare's tail cotton grass or		rotation,	
	deergrass.		increase the	
			burning rotation	
	2) Increase the quantity of bare ground vulnerable to erosion		average.	
	3) Decreased abundance of key species, especially wetland species			
	4) Changes in vegetation structure, floristic composition and microtopography			



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sac Burning Upland or subalpine dry dwarf shrub heath  to contribute 6) Drying or formation 7) Hinders t practices 8) Encourage 1) Promote Ericoids to get a promote in the subalpine dry dwarf shrub 2) Increase 3) Decrease 4) Changes	e and reduction in cover, variety and function of <i>Spha</i> ate to peat formation.  Out of peat surface and increases the likelihood of peat the recovery of vegetation damaged by historic activates agement of dense <i>Cv</i> canopies may increase the risk the dominance of a few species or switch dominance of graminoids  The quantity of bare ground and abundance of key species as in floristic composition agement of dense <i>Calluna</i> canopies may increase the graminoids agement of dense <i>Calluna</i> canopies may increase the state of the species and the species are in floristic composition agement of dense <i>Calluna</i> canopies may increase the species and the species are in floristic composition and the species and the species are in floristic composition are species and the species are in floristic composition and the species are in fl	eat pipe  vities and  k of wildfire  12 years buchare divisions and the pipe of the pipe o	uffer sensitive abitats and otain structural iversity	Yes
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SPA	Burning	23 year on	avoid wet areas	yes
	1) Burning may promote drying out of the peatland surface, reducing the	blanket bog	and take	
Aggregations	abundance and availability of invertebrate prey for golden plover, curlew and		burning off	
of breeding	dunlin		more elevated	
Annex I birds;			areas	
Assemblage	2) Burning in historically burned areas may provide shorter vegetation in			
of breeding upland	closed canopy stands suitable for breeding golden plover			
moorland birds	3) Burning can promote heather at the expense of bog vegetation, adversely affecting breeding habitat of dunlin			
Golden Plover	Frequent burning cycles can reduce the extent of tall heather for nesting merlin and can reduce abundance of its prey, the meadow pipit.			
Merlin	5) Encouragement of dense <i>Calluna</i> canopies may increase the risk of wildfire which may result in mortality or nest destruction if fires occur within			
Short-eared Owl	bird breeding season			
Peregrine				
Dunlin				
SAC	Grazing	0.1 LU/ha	maintain	No
			distribution of	
Blanket bog	1) Increases likelihood of compaction and hydrological effects by trampling,		sheep across	
	poaching and regular walkways		the unit	



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	2) Increased likelihood of eutrophication through animal droppings			
	3) Increased likelihood of selective grazing of dwarf shrub species and			
	flowering forbs.			
SAC	Grazing	0.1 LU/ha		No
Upland or	1) Increases likelihood of compaction and hydrological effects by trampling,			
subalpine dry	poaching and regular walkways			
dwarf shrub				
heath	2) Increased likelihood of eutrophication through animal droppings			
	2) moreased members of eather meating another arms are printed			
	2) Ingrapped likelihood of coloctive grazing of dwarf abrub appaies and			
	3) Increased likelihood of selective grazing of dwarf shrub species and			
	flowering forbs.			
SPA	<u>Grazing</u>	0.1 LU/ha		No
Aggregations				
of breeding	1) Increases likelihood disturbance by trampling, poaching and regular			
Annex I birds:	walkways			
7 tillox i bildo,	- Haikitayo			
Assemblage	2) Increased likelihood of demand to neet sites through trampling pagehing			
	2) Increased likelihood of damage to nest sites through trampling, poaching			
of breeding	and regular walkways			
upland moorland				
birds: Golden				
Plover, Merlin				
Short-eared				
Owl,				
Peregrine,				
Dunlin				
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SAC & SPA	Other proposals, e.g. Grip blocking	reduce	use appropriate	No
		erosion and	techniques to	
		maintain	protect habitat	
		water table		



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### C2.2 In-combination with other plans and projects (only where applicable): N/A

From the table above those elements not deemed to have an impact alone must now be considered for in-combination impacts. Effects not considered to be significant alone in section C2.1 have been considered with the details of other live plans and projects and their effects to make an assessment of likely significant effect 'in-combination'. The results of this assessment are as follows:

**Conclusions:** Natural England has considered the project under Regulation 21 (1)(a) of The Conservation of Habitats and Species Regulations 2010 and has decided that it **is** likely to have a significant effect, either alone or in combination with other plans or projects, for the following reasons:

#### C3. Screening Decision

On the basis of the details submitted, Natural England has concluded that as the project **is** likely to have significant effects either alone or in combination with other plans or projects, or such effects cannot be ruled out, on some or all of the Qualifying Features, consent may not be given and further appropriate assessment is required.



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#### PART D: Appropriate assessment and Site Integrity test

#### **D1. Appropriate Assessment**

Having considered that the project is not directly connected with or necessary to the management of the South Pennine Moors Special Area of Conservation (SAC) and The Peak District Moors Dark Peak (South Pennine Moors Phase 1) Special Protection Area (SPA) and is likely to have a significant effect on some or all of the features of the SAC (either alone or in combination with other plans or projects), this section contains the appropriate assessment of the implications of the project in view of the conservation objectives for the European Site (as required by Regulation 21 of the Habitats Regulations).

The Qualifying Features, on which significant effects are likely or cannot be ruled out, and which are integral to this appropriate assessment are;

- Blanket bogs\* (\*priority habitat type).
- Upland dry dwarf shrub heath
- Golden plover
- Dunlin
- Merlin
- Short-eared owl

#### **D1.1** European Site Conservation Objectives

The South Pennine Moors Special Area of Conservation (SAC) http://www.naturalengland.org.uk/Images/UK0030280-South-Pennine-Moors-SAC\_tcm6-31771.pdf

# D1.2 Contextual statement on the current status, influences, management and condition of the site and those Qualifying features affected by the project

Currently the blanket bog habitat present on this moor does not meet favourable condition standards for vegetation composition reasons. The deficiency in number and diversity of species of these habitats will not be restored by continuing to burn them.

The burning plan prescribes various burning rotations on the habitats within the permitted burn area. This permitted burn area has been drawn up by excluding areas of less than 50% Calluna vulgaris, steep slopes, gullies, flush and areas that have not seen historical rotational burning or areas that CSM finds a particularly diverse or developing suite of species.



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Generally this follows the guidance within the H&GBC with the exception that areas of peat bog or wet heathland are permitted to be burned in line with this plan. This is to limit burning to existing areas that have experienced historical burning and to prevent its expansion. Whilst this approach will secure a limitation to burning management, it does allow an Operation that was Likely to Damage to proceed with the justification that there will be a conservation gain by lengthening the burning rotations from those that were previously consented.

The HRA must reach a conclusion that;

- the management is necessary for the management of the European site.
- that the management will not have a significant adverse effect.
- it can be ascertained that the management will not have an adverse impact upon the integrity of the European site.

Current scientific understanding **is insufficient** to demonstrate that burning of peatlands on **any rotation** will;

- lead to favourable condition.
- not hinder recovery (alone or in combination with other restoration projects).
- not lead to biodiversity decline.

The current scientific evidence base suggests burning of peatlands is damaging and has other negative effects for ecosystem services and it should be considered that with respect to burning on blanket bogs and wet heaths that;

The Heather and Grass Burning Code says;

There should be a strong presumption against burning sensitive areas. (Of which peat bog and wet heathland are types)

The Natural England Summary of burning and other moorland management guidance says about blanket bog;

Presumption of no burning (unless 'special circumstances', e.g. initial restoration treatment)

and The Upland Management Handbook says;

The question often raised in relation to blanket mire and wet heath is whether or not it should be burnt. Fire cycles on mires are not fully understood (Lindsay 1995), but burning these habitats in the same manner as dry heaths is thought to reduce their conservation value (Usher & Thompson 1993). Burning



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on blanket mire and wet heath is not required to maintain their nature conservation interest (Mowforth & Sydes 1989; Rawes & Hobbs 1979) and for this reason it should be minimised and where possible eliminated.

The current scientific evidence base suggests burning of peatlands is damaging and has other negative effects for ecosystem services and is not necessary to achieve conservation objectives.

There is no conservation need to burn dry heath habitats for their enhancement as they have no ecological successional pressure that requires intervention on this site.

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## D1.3 Assessment of likely effects without mitigation measures (project as proposed)

Project element	Likely impact	Extent	Likelihood of adverse effect and	Uncertainty
Burning on blanket	1) Promotion of fire-tolerant species, including	220 ha	Continued rotational burning of	Uncertain_that
bog on The	Calluna vulgaris, or graminoids such as		bog may create conditions that	this will have
maximum area of	purple moor grass, hare's tail cotton grass or		will favour species such as	an adverse
vegetation to be	deergrass		Calluna vulgaris cool burning will	effect
burnt in the 5 year			avoid conditions that allow	
consent period will	2) Increase of bare ground vulnerable to		Campylopus pyriformis to exist at	
be <b>47.5</b> hectares.	erosion		unfavourable frequencies.	
This equates to an	2) Decreed ensite diversity consisting		The area of blooket has wellen a	
average annual	Decreased species diversity, especially wetland species		The area of blanket bog under a rotational burning management	
total of 9.5	welland species		has been reduced by 10% and	
hectares (based on	4) Changes in vegetation structure, floristic		the rotation period has been	
an average rotation	composition and micro-topography		extended from 18 year average to	
of 23 years).			23 year average.	
,	5) Damage and reduction in cover, variety			
	and the function of Sphagnum species to		Continued burning will hinder the	
	contribute to peat formation.		recovery of this habitat including	
			more typical, fire sensitive	
	6) Drying out of peat surface and increases		species, such as Sphagnum	
	the likelihood of peat pipe formation		mosses, and can lead to drying	
			out of the peat surface.	
	7) Hinders the recovery of vegetation damaged			

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	by historic activities and practices		
	8) Encouragement of dense heather canopies		
	may increase the risk of wildfire		
Burning on dry heath	Promote the dominance of a few species	312ha	Uncertain that
on a rotation of Burn	or switch dominance from Ericoids to		this will have
appropriate	graminoids		an adverse
vegetation in a	2) Increase the quantity of here ground		effect
rotation of 9-15	2) Increase the quantity of bare ground		
years (or longer) to	3) Decreased abundance of key species		
create a mosaic of	,		
vegetation structure	4) Changes in floristic composition		
across the site, including heather in	5.5		
the mature and	5) Encouragement of dense Calluna		
degenerate phases	canopies may increase the risk of wildfire		
of growth. The			
maximum area of			
vegetation to be			
burnt in the 5 year			
consent period will			
be 130 hectares			
(which equates to			

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8% of the total area		
per year). This		
equates to an		
average annual		
total of 26		
hectares.		



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## D1.4 Assessment of likely effects taking account of mitigation measures

This table examines potential avoidance/mitigation measures that might be applied to relevant elements of the proposal in order to avoid adverse effects on the integrity of the site.

Project element	Likely impact	Avoidance and reduction measures (Mitigation) to be applied as Conditions and modifications	Justification	Who will implement	Checks/ Controls	Will conditions allow Natural England to conclude no impact on site integrity
Burning	See table 1.3 above	Amend the terms of the Plan to stipulate reduction of the area of blanket bog habitat where there is burning management, increase in the rotation period.	So that it can be ascertained that that there will be no adverse impact on the integrity of the site or its notified features.	Land manager	NE ISA visits RPA compliance HLS mapping	Yes



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## D1.5 Assessment of likely effects taking into account Restrictions and Conditions

See comments above

**D1.6 Assessment of residual effects** 

None



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#### D2. Conclusions on site Integrity

Because the project is not wholly directly connected with or necessary to the management of the South Pennine Moors Special Area of Conservation (SAC) and the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area (SPA) and is likely to have a significant effect on the SAC (either alone or in combination with other plans or projects), Natural England carried out an Appropriate Assessment as required under Regulation 21 of the Conservation of Habitats and Species Regulations 2010 to ascertain whether or not there would be an adverse effect on the integrity of the South Pennine Moors Special Area of Conservation (SAC) and the Peak District Moors (South Pennine Moors Phase 1) Special Protection Area (SPA).

Natural England has concluded that:

With respect to the SAC;

It cannot be ascertained that the project will not have an adverse effect on the integrity of the South Pennine Moors Special Area of Conservation SAC.

#### PART E: Consent/Permission decision with respect to the European Site(s)

As the relevant competent authority, Natural England has carried out a Habitats Regulations assessment of the project as required by Regulation 21 of the Conservation of Habitats and Species Regulations 2010 and has decided that, with regard to the European Sites and its qualifying features;

#### Permission for the operations contained in the project can be given

The reasons for this decision are as follows:

It can be ascertained that the proposed HLS agreement will result in a reduced impact compared to previously consented/agreed management and this will have a less adverse impact on site integrity. These measures are likely to reduce the impact of management and assist in recovery of habitat condition on the SAC and to encourage habitat to support SPA bird species. In addition the positive restoration work will assist recovery of blanket bog and wet grassland.

The Habitats Regulations assessment of the implications of this project on the European Site has been completed. Following a Habitats Regulations Assessment of the plan/project regarding the European Site features, further separate consideration is required of the compatibility of the project with the notified features of special interest of the SSSI before any final written consent or permission can be given.



**Appendices** 

References

None.

## **Habitats Regulations Assessment (HRA)**

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		The South Pennine Moors Special Area of Conservation (SAC South Pennine Moors Phase 1) Special Protection Area (SPA			
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## **Document control**

HRA prepared for Land management	Richard Pollitt	Lead Adviser	V1	22 <sup>nd</sup> August 2013
HRA comments from Regulation				[Date]
HRA comments from Specialist				[Date]
HRA approved for Land management				[Date]
Agreement/ Consent approved	[Name]	[Role]	Agreement Number / Document Reference	[Date]



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# Appendix 1

[Insert proposal of Agreement/ Consent]



# **Regulation 21 of the Habitats Regulations 2010**