

# Site Improvement Plan

## North Pennines Group

Site Improvement Plans (SIPs) have been developed for each Natura 2000 site in England as part of the Improvement Programme for England's Natura 2000 sites (IPENS). Natura 2000 sites is the combined term for sites designated as Special Areas of Conservation (SAC) and Special Protected Areas (SPA). This work has been financially supported by LIFE, a financial instrument of the European Community.

The plan provides a high level overview of the issues (both current and predicted) affecting the condition of the Natura 2000 features on the site(s) and outlines the priority measures required to improve the condition of the features. It does not cover issues where remedial actions are already in place or ongoing management activities which are required for maintenance.

The SIP consists of three parts: a Summary table, which sets out the priority Issues and Measures; a detailed Actions table, which sets out who needs to do what, when and how much it is estimated to cost; and a set of tables containing contextual information and links.

Once this current programme ends, it is anticipated that Natural England and others, working with landowners and managers, will all play a role in delivering the priority measures to improve the condition of the features on these sites.

The SIPs are based on Natural England's current evidence and knowledge. The SIPs are not legal documents, they are live documents that will be updated to reflect changes in our evidence/knowledge and as actions get underway. The information in the SIPs will be used to update England's contribution to the UK's Prioritised Action Framework (PAF).

The SIPs are not formal consultation documents, but if you have any comments about the SIP or would like more information please email us at [IPENSLIFEProject@naturalengland.org.uk](mailto:IPENSLIFEProject@naturalengland.org.uk), or contact Natural England's Responsible Officer for the site via our enquiry service 0300 060 3900, or [enquiries@naturalengland.org.uk](mailto:enquiries@naturalengland.org.uk)

### **This Site Improvement Plan covers the following Natura 2000 site(s)**

**UK0014774 Moor House-Upper Teesdale SAC**

**UK0030033 North Pennine Moors SAC**

**UK9006272 North Pennine Moors SPA**

## Site description

This large, 150,000 hectares area of moorland massif extends 110 km from north to south, between the Tyne Gap (Hexham) and the Ribble-Aire corridor (Skipton). Within the site is an extensive plateau of between 600m and 893m. The varied topography, hydrology, soils and underlying geology has contributed to a high degree of habitat heterogeneity.

Vegetation is largely unenclosed heather moorland, either as blanket bog or drier alpine and sub-alpine heaths, with smaller areas of wetland, grassland, and other habitats, including a range of 'minority' habitats eg alpine pioneer formations, base-rich flushes, calaminarian grassland. Post-glacial relict flora and fauna are present.

At the moorland fringes are areas of enclosed grassland including mountain hay meadows which have been managed at a relatively low level of agricultural intensification and so retain a diversity of meadow species. Bird populations of international importance are present.

## Plan Summary

*This table shows the prioritised issues for the site(s), the features they affect, the proposed measures to address the issues and the delivery bodies whose involvement is required to deliver the measures. The list of delivery bodies will include those who have agreed to the actions as well as those where discussions over their role in delivering the actions is on-going.*

Priority & Issue	Pressure or Threat	Feature(s) affected	Measure	Delivery Bodies
1 Low breeding success/poor recruitment	Threat	A082(B) Hen Harrier, A103(B) Peregrine	Investigate causes and work with police and partners to address them	Cumbria Constabulary, Durham Constabulary, Natural England, North Pennines AONB, North Yorkshire Police, Northumbria Police, RSPB, Wildlife Trust(s), British Trust for Ornithology (BTO), British Association for Shooting and Conservation (BASC), The Moorland Association, Yorkshire Peat Partnership, Major Landowners Group
2 Managed rotational burning	Pressure	A082(B) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H4030 European dry heaths, H5130 Juniper on heaths or calcareous grasslands, H7130 Blanket bogs	Ensure compliance with existing plans and guidance, review consents and carry out further research	Defra, Ministry of Defence (MoD), Natural England, North Pennines AONB, Wildlife Trust(s), Landowner(s), University(ies), The Moorland Association, Yorkshire Peat Partnership

3 Inappropriate grazing	Pressure	A082(B) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H4030 European dry heaths, H4060 Alpine and subalpine heaths, H5130 Juniper on heaths or calcareous grasslands, H6130 Grasslands on soils rich in heavy metals, H6150 Montane acid grasslands, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H6410 Purple moor-grass meadows, H6430 Tall herb communities, H6520 Mountain hay meadows, H7130 Blanket bogs, H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H7240 High-altitude plant communities associated with areas of water seepage, H8110 Acidic scree, H8120 Base-rich scree, H8210 Plants in crevices in base-rich rocks, H8220 Plants in crevices on acid rocks, H8240 Limestone pavements, H91A0 Western acidic oak woodland, S1015 Round-mouthed whorl snail, S1528 Marsh saxifrage	Investigate and trial appropriate means of management, such as targetted cattle grazing	Defra, Ministry of Defence (MoD), Natural England, RSPB, Wildlife Trust(s), Landowner(s), University(ies), British Trust for Ornithology (BTO)
4 Change in land management	Threat	H4030 European dry heaths, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H7130 Blanket bogs, H7240 High-altitude plant communities associated with areas of water seepage, S1528 Marsh saxifrage	Investigate and trial appropriate means of management	Ministry of Defence (MoD), Natural England, Wildlife Trust(s), University(ies), British Trust for Ornithology (BTO), Grazing animals Project, Land manager(s), Land agent(s)
5 Disease	Threat	H5130 Juniper on heaths or calcareous grasslands	Research and trial appropriate means of management	Forestry Commission, Natural England, Yorkshire Wildlife Trust, Food and Environment Research Agency (FERA), Animal & Plant Health Agency

6 Hydrological changes	Threat	A140(B) Golden Plover, H6410 Purple moor-grass meadows, H7130 Blanket bogs, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H7240 High-altitude plant communities associated with areas of water seepage	Continue with grip blocking and peatland restoration	Environment Agency, Natural England, North Pennines AONB, Northumbrian Water Ltd, RSPB, United Utilities Water Plc, Wildlife Trust(s), Yorkshire Water Services Ltd, National Farmers' Union (NFU), Country Land and Business Association (CLA), The Moorland Association, Yorkshire Peat Partnership, The Heather Trust
7 Game management: grouse moors	Pressure	A082(B) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H4030 European dry heaths, H7130 Blanket bogs, H7240 High-altitude plant communities associated with areas of water seepage	Stakeholder engagement and production of guidance to minimise impacts	Natural England, RSPB, Wildlife Trust(s), British Trust for Ornithology (BTO), The Moorland Association, The Game & Wildlife Conservation Trust, Agricultural college(s), Major Landowners Group
8 Direct land take from development	Threat	A082(B) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H4030 European dry heaths, H7130 Blanket bogs	Pre-application advice to minimise impacts. Enforcement where unconsented losses occur	Local Authority(ies), Natural England, North Pennines AONB, Wildlife Trust(s), Yorkshire Dales National Park Authority

9 Air Pollution: risk of atmospheric nitrogen deposition	Pressure	A082(B) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H4030 European dry heaths, H4060 Alpine and subalpine heaths, H5130 Juniper on heaths or calcareous grasslands, H6130 Grasslands on soils rich in heavy metals, H6150 Montane acid grasslands, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H6410 Purple moor-grass meadows, H6430 Tall herb communities, H6520 Mountain hay meadows, H7130 Blanket bogs, H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H7240 High-altitude plant communities associated with areas of water seepage, H8110 Acidic scree, H8120 Base-rich scree, H8210 Plants in crevices in base-rich rocks, H8220 Plants in crevices on acid rocks, H8240 Limestone pavements, H91A0 Western acidic oak woodland, S1015 Round-mouthed whorl snail, S1528 Marsh saxifrage	Control, reduce and ameliorate atmospheric nitrogen impacts. Implement site nitrogen action plan	University(ies), Not yet determined
10 Fertiliser use	Pressure	H6520 Mountain hay meadows	Review fertiliser use as part of agri-environment, and review existing consents	Natural England, North Pennines AONB, Wildlife Trust(s)
11 Inappropriate cutting/mowing	Pressure/ Threat	H6520 Mountain hay meadows	Review agri-environment prescriptions in light of evidence review, and implement demonstration projects	Natural England, North Pennines AONB, Wildlife Trust(s), Local Enterprise Partnership (LEP)
12 Invasive species	Threat	H6410 Purple moor-grass meadows, H6520 Mountain hay meadows, H7240 High-altitude plant communities associated with areas of water seepage	Research into causes of spread of rushes, and trialling of management mechanisms.	Natural England, North Pennines AONB, RSPB, Wildlife Trust(s), Yorkshire Dales National Park Authority, University(ies), Farmer network
13 Agricultural management practices	Pressure	A140(B) Golden Plover, H4030 European dry heaths, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H6520 Mountain hay meadows, H7130 Blanket bogs	Negotiate changes in management through agri-environment schemes and review of consents where required	Natural England

14 Vehicles	Pressure	A082(B) Hen Harrier, A098(B) Merlin, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H6130 Grasslands on soils rich in heavy metals, H6520 Mountain hay meadows, H7130 Blanket bogs, H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens	Enforce adherence to consents for vehicle use and seek to find alternative solutions	Natural England, North Pennines AONB, Yorkshire Dales National Park Authority, The Moorland Association
15 Vehicles: illicit	Pressure/ Threat	A098(B) Merlin, A140(B) Golden Plover, H4010 Wet heathland with cross-leaved heath, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H7130 Blanket bogs, H7240 High-altitude plant communities associated with areas of water seepage	Police and NE Enforcement measures. Raise awareness through the media, locally and nationally.	Cumbria Constabulary, Durham Constabulary, Natural England, North Pennines AONB, North Yorkshire Police, Northumbria Police, Landowner(s), Gamekeepers/ managers
16 Public Access/Disturbance	Threat	A082(B) Hen Harrier, A098(B) Merlin, A140(NB) Golden Plover, H4010 Wet heathland with cross-leaved heath, H6210 Dry grasslands and scrublands on chalk or limestone (important orchid sites), H7130 Blanket bogs, H7240 High-altitude plant communities associated with areas of water seepage	Assess impacts of public access and attempt to resolve any conflicts	Local Authority(ies), Natural England, North Pennines AONB, Wildlife Trust(s), Yorkshire Dales National Park Authority, Landowner(s), British Trust for Ornithology (BTO), The Moorland Association, Game & Wildlife Conservation Trust (GWCT)
17 Deer	Threat	H5130 Juniper on heaths or calcareous grasslands, H91A0 Western acidic oak woodland	Assess current impacts and implement deer control measures where needed	Forestry Commission, Natural England, Landowner(s), Voluntary conservation organisation(s)
18 Feature location/ extent/ condition unknown	Threat	A082(NB) Hen Harrier, A098(B) Merlin, A103(B) Peregrine, A140(B) Golden Plover, H6130 Grasslands on soils rich in heavy metals, H6430 Tall herb communities, H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H7240 High-altitude plant communities associated with areas of water seepage, H8110 Acidic scree, H8120 Base-rich scree, H8210 Plants in crevices in base-rich rocks, H8220 Plants in crevices on acid rocks, S1528 Marsh saxifrage	Undertake further survey and research where needed	Defra, Natural England, RSPB, University(ies), British Trust for Ornithology (BTO), Natural Environment Research Council (NERC), Joint Nature Conservation Committee (JNCC)

19 Climate change

Threat

A140(B) Golden Plover, H4060 Alpine and subalpine heaths, H6150 Montane acid grasslands, H6520 Mountain hay meadows, H7130 Blanket bogs, S1528 Marsh saxifrage

Implement recommendations Natural England of climate change action plan on susceptible features

## Issues and Actions

*This table outlines the prioritised issues that are currently impacting or threatening the condition of the features, and the outstanding actions required to address them. It also shows, where possible, the estimated cost of the action and the delivery bodies whose involvement will be required to implement the action. Lead delivery bodies will be responsible for coordinating the implementation of the action, but not necessarily funding it. Delivery partners will need to support the lead delivery body in implementing the action. In the process of developing the SIPs Natural England has approached the delivery bodies to seek agreement on the actions and their roles in delivering them, although in some cases these discussions have not yet been concluded. Other interested parties, including landowners and managers, will be involved as the detailed actions are agreed and delivered. Funding options are indicated as potential (but not necessarily agreed or secured) sources to fund the actions.*

### 1 Low breeding success/ poor recruitment

Suitable habitat exists on the site to support successful breeding, but low numbers of hen harrier are present (confined to one specific area).

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1A</b>	Gather evidence to increase understanding of hen harrier (in accordance with the Hen Harrier Joint Recovery Plan) and peregrine populations on the site and factors affecting them.	Not yet determined	2014-20	Investigation / Research / Monitoring	Not yet determined	Natural England	Defra, RSPB, British Trust for Ornithology (BTO)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1B</b>	Work with the police and partner organisations to pursue any illegal activities detrimental to hen harrier and peregrine.	Staff time	2014-20	Enforcement	Staff time	Natural England	Cumbria Constabulary, Durham Constabulary, North Yorkshire Police, Northumbria Police, RSPB, British Trust for Ornithology (BTO), British Association for Shooting and Conservation (BASC), The Moorland Association



<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>1C</b>	In the context of the Hen Harrier Joint Recovery Plan, work proactively with partner organisations, landowners and industry to promote best practice and positive working to improve the conservation status of raptors.	£5,000 per education rollout	2014-20	Advice: Education & awareness raising	Not yet determined	Natural England	Defra, North Pennines AONB, RSPB, Wildlife Trust(s), British Association for Shooting and Conservation (BASC), The Moorland Association, Yorkshire Peat Partnership, Major Landowners Group

## 2 Managed rotational burning

The Uplands Evidence Review has provided strong evidence that, amongst other things, managed rotational burning results in changes to the plant and faunal species composition and peat properties of blanket bogs and wet heath. Rotational burning of habitats supporting heather is carried out throughout the North Pennines as part of the management of moors for red grouse shooting and sheep grazing. However, frequent repeated burning, in combination with grazing and drainage, is affecting the condition of the blanket bog on a wide scale. It also alters distribution of age structure and distribution/availability of nesting bird habitat within blanket bog, wet heath and dry heath habitats.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2A</b>	Informed by the Uplands Evidence Review, improve blanket bog, wet heath and dry heath habitat so that it increasingly contributes to Favourable Conservation Status of these interest features by reviewing and renegotiating, if necessary, burning consents.	£500,000	2014-25	Advice: Negotiation	Defra	Natural England	Landowner(s)

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2B</b>	Informed by the Uplands Evidence Review, improve blanket bog, wet heath and dry heath habitat so that it increasingly contributes to Favourable Conservation Status of these interest features by amending or revoking damaging consents where renegotiation is unsuccessful.	£1,000,000	2014-25	Regulation: Compulsory Management Scheme/Notice	Defra	Natural England	n/a

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>2C</b>	Informed by the Uplands Evidence Review, improve blanket bog, wet heath and dry heath habitat so that it increasingly contributes to the Favourable Conservation Status of these interest features by improving advice to land managers based on up to date evidence and understanding of best practice habitat management and outcomes.	Staff time	2014-20	Advice: Other	Not yet determined	Natural England	Defra, North Pennines AONB, Wildlife Trust(s), The Moorland Association, Yorkshire Peat Partnership
<b>2D</b>	Informed by the Uplands Evidence Review, improve blanket bog and wet heath habitat so that it increasingly contributes to Favourable Conservation Status of these interest features by promoting management which encourages natural processes without rotational burning management of heather. Work with land managers to adopt an outcomes-based approach. Monitor and evaluate the effects of alternative management (cutting or non-intervention).	Staff time	2014-30	Advice: Other	New Environmental Land Management Scheme (NELMS)	Natural England	Ministry of Defence (MoD), North Pennines AONB, Wildlife Trust(s), The Moorland Association, Yorkshire Peat Partnership
<b>2E</b>	Informed by the Uplands Evidence Review, improve blanket bog, wet heath and dry heath habitat so that it increasingly contributes to Favourable Conservation Status of this interest feature by reviewing the effectiveness of RDPE funding in achieving sustainable management.	£25,000	2014-20	Advice: Other	Defra, Natural England, Research project	Natural England	Defra, North Pennines AONB, University(ies), Yorkshire Peat Partnership

### 3 Inappropriate grazing

Inappropriate grazing affects species composition of many habitats and can cause loss of extent of notified habitats and species. Rabbits as well as livestock cause localised overgrazing and additionally affect habitats on fragile substrates through burrowing. In many areas agri-environment schemes are helping to address this issue, but these are only temporary, lasting up to 10 years.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3A</b>	Where grazing is causing vegetation suppression, negotiate agreements to reduce grazing pressure to sustainable levels. This may include no-grazing areas on highly sensitive habitats eg hydrophilous tall-herb communities, montane heath and regenerating blanket bog. Where type of stock and seasonality of grazing are important e.g. northern hay meadows, seek to achieve desired grazing regime through management agreements.	£30,000	2014-20	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Higher Level Stewardship (HLS), New Environmental Land Management Scheme (NELMS)	Natural England	n/a
<b>3B</b>	Monitor outcomes of existing agreements in achieving favourable structure and function of Natura 2000 features, and review and amend where necessary .	Staff time	2014-24	Rural Development Programme for England (RDPE): Environmental Stewardship Higher Level Scheme (HLS)	Not yet determined	Natural England	RSPB, Wildlife Trust(s), British Trust for Ornithology (BTO)
<b>3C</b>	Where consented grazing is continuing to cause damage to Natura 2000 habitats and appropriate agri-environment agreements can not be negotiated, source funding to implement outcomes of review of existing grazing consents.	Not yet determined	2015-25	Regulation: Compulsory Withdraw/Modify Notice/Consent	Defra	Natural England	n/a

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3D</b>	Ensure mechanisms and funding in place for effective control of rabbits where these are causing damage to Natura 2000 habitats, particularly limestone pavement.	£25,000	2014-20	Non-Natural England funded site management plan	Ministry of Defence (MoD)	Natural England	Ministry of Defence (MoD), Landowner(s)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>3E</b>	Review effectiveness of RDPE funding in achieving sustainable management.	£25,000	2014-20	Advice: Other	Defra, Natural England, Research project	Defra	University(ies)

#### 4 Change in land management

1. Where differing vegetation types exist in a mosaic, achieving the ideal grazing levels for different habitat types can be challenging, particularly on large areas of unenclosed common grazing land. In some areas, changes in grazing management to improve the condition of extensive features (eg blanket bog and dry heath) appears to have resulted in adverse changes in structure in other equally important but less extensive habitats, such as limestone grassland with rare arctic alpinines and flushes supporting yellow marsh saxifrage.

2. There has been a general reduction in hardy cattle and an increase in the proportion of sheep, which graze more selectively and create a more uniform structure.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>4A</b>	Research and trial ways, including novel alternatives, of delivering targeted management of limestone grassland and flushes supporting rare species within a moorland mosaic.	£500,000	2014-20	Investigation / Research / Monitoring	Natural England, New Environmental Land Management Scheme (NELMS)	Natural England	Ministry of Defence (MoD), Wildlife Trust(s), University(ies), Grazing animals Project, Land manager(s), Land agent(s)

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>4B</b>	Encourage cattle grazing on habitats where less selective grazing will improve both species composition and structural attributes, in particular limestone grasslands, limestone pavements, Molinia meadows and pastures supporting breeding waders, woodland and scrub.	£1,000,000	2014-20	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Higher Level Stewardship (HLS), New Environmental Land Management Scheme (NELMS)	Natural England	Wildlife Trust(s), British Trust for Ornithology (BTO), Grazing animals Project

## 5 Disease

Phytophthora ('Juniper die-back') disease has been confirmed in Juniper at Upper Teesdale. This is a significant threat as it has the potential to destroy the interest feature and there is a lack of mechanisms to address it.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>5A</b>	Implement biosecurity and disease control measures.	£300,000	2014-20	Bio-security plan	New Environmental Land Management Scheme (NELMS), England Woodland Grant Scheme (EWGS)	Natural England	Forestry Commission, Animal & Plant Health Agency

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>5B</b>	Raise public awareness of biosecurity measures and review public access requirements.	£30,000	2014-20	Advice: Education & awareness raising	Natural England	Natural England	Forestry Commission

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>5C</b>	Make juniper stands more robust by diversifying species mix. Create 'ark' populations on drier (less susceptible) sites.	£400,000	2014-20	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	New Environmental Land Management Scheme (NELMS), England Woodland Grant Scheme (EWGS)	Natural England	Forestry Commission, Yorkshire Wildlife Trust, Food and Environment Research Agency (FERA)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>5D</b>	Collect seed and store within seedbank, for re-stocking.	£5,000	2014-20	Existing Local Project	Natural England	Forestry Commission	Natural England

## 6 Hydrological changes

Past drainage ('moor-gripping') has caused hydrological changes within blanket peat and some other water-dependent features such as alkaline fens. The effects on blanket bog are severe and widespread, potentially also resulting in impacts on breeding waders. Although mechanisms are underway in many areas to address the effects, through grip blocking, this work is not complete throughout the North Pennines Natura 2000 sites.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>6A</b>	Restore peat forming conditions and natural drainage patterns across moorland through peatland restoration programmes including grip and gully blocking and reprofiling, following a review of which areas have yet to be targeted.	£3,000,000	2014-30	Existing Local Project	LIFE, Water Framework Directive (WFD), Local partnership, Private funding	Natural England	Environment Agency, Yorkshire Peat Partnership, North Pennines AONB Peatlands Project

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>6B</b>	Where negotiation of grip blocking is unsuccessful consider use of regulatory powers.	£50,000	2020-30	Enforcement	Natural England, Local project	Natural England	n/a
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>6C</b>	Engage with stakeholders to foster better understanding of optimal hydrological condition for blanket bog habitats, and to raise awareness of the wider benefits of restoration of peatland hydrology including flood alleviation and carbon sequestration.	Staff time	2014-30	Major Landowner Group land ownership activities : Other	Not yet determined	Natural England	North Pennines AONB, Northumbrian Water Ltd, RSPB, United Utilities Water Plc, Wildlife Trust(s), Yorkshire Water Services Ltd, National Farmers' Union (NFU), Country Land and Business Association (CLA), The Moorland Association, Yorkshire Peat Partnership, The Heather Trust

## 7 Game management: grouse moors

Technical changes in terms of off-road vehicles and machinery to control burning has allowed access to areas of moorland that were previously difficult to manage and has increased commercial competition. This combined with improved medicated grit has provided an impetus for estates to increase the intensity of management with the aim of increasing bag numbers. The trend for intensification of activities associated with grouse moor management has known impacts on several designated habitats and bird species. There may also be future impacts (eg from medicated grit on moorland invertebrates) which are currently poorly understood.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7A</b>	Engage with relevant national research and negotiate with stakeholders to promote sustainable management of grouse moors and direct focus to positive outcomes for Natura 2000 interest features. Develop guidance that seeks to limit damaging activities and fosters best practice management.	£20,000	2014-25	Major Landowner Group land ownership activities : Other	Not yet determined	Natural England	RSPB, Wildlife Trust(s), British Trust for Ornithology (BTO), The Moorland Association, The Game & Wildlife Conservation Trust, Agricultural college(s), Major Landowners Group
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7B</b>	Review effects of existing consents on Natura 2000 features, and where necessary seek to re-negotiate consents. Where re-negotiation is not possible, source funding to implement outcomes.	Not yet determined	2014-25	Regulation: Compulsory Withdraw/Modify Notice/Consent	Natural England	Natural England	n/a
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>7C</b>	Review the operations likely to damage (OLDS) list for the site to ensure they are consistent, and cover game management activities adequately.	Staff time	2014-20	Designation strategy (SSSI)	Natural England	Natural England	n/a



## 8 Direct land take from development

Development applications (such as tracks, quarrying and windfarms) are usually small scale but there is the potential for in combination effects on the European site. Proposals are dealt with via the planning control process but usually require pre-application advice.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>8A</b>	Pre-application discussions to minimise/remove impacts on designated features. Work with owners and planning authorities to ensure applications are dealt with through correct processes and not double-handled.	£20,000	2014-20	Advice: Negotiation	Not yet determined	Yorkshire Dales National Park Authority	Local Authority(ies), Natural England, North Pennines AONB, Wildlife Trust(s)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>8B</b>	Enforcement where unconsented loss of interest feature vegetation occurs.	£300,000	2014-20	Enforcement	Not yet determined	Natural England	n/a

## 9 Air Pollution: risk of atmospheric nitrogen deposition

The critical loads for nitrogen are exceeded within these sites. The actual impacts of this are unclear at present. However, increased nitrogen deposition has the potential to affect the species composition of sensitive habitats. There is particular concern about effects of nitrogen deposition on limestone grasslands which support arctic alpine species in the Upper Teesdale NNR, where an increasing proportion of grasses and a 'bulky' sward have been observed. In such areas, research into interactions with grazing and nutrient limitation will be a future requirement.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>9A</b>	Control, reduce and ameliorate atmospheric nitrogen impacts.	Not yet determined	2014-20	Site Nitrogen Action Plan	Not yet determined	Not yet determined	Not yet determined

## 10 Fertiliser use

Fertiliser use on certain areas, in particular upland hay meadows, is preventing achievement of favourable condition due to eutrophication. Inappropriate timing of in-field operations impacts on nesting birds (e.g. curlew).

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>10A</b>	Implement the outcomes of the Uplands Evidence review on the impacts of different rates of nutrient applications on hay meadows via renegotiation of HLS/NELMS prescriptions.	£10,000	2014-20	Rural Development Programme for England (RDPE): Environmental Stewardship Higher Level Scheme (HLS)	Higher Level Stewardship (HLS)	Natural England	North Pennines AONB, Wildlife Trust(s)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>10B</b>	Commission additional national research identified in the Uplands Evidence Review into the influence of different nutrients and their application on northern hay meadows.	Not yet determined	2014-20	Investigation / Research / Monitoring		Natural England	
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>10C</b>	Review consents and where re-negotiation is unsuccessful source funding to implement outcomes.	Not yet determined	2014-20	Regulation: Compulsory Withdraw/Modify Notice/Consent	Defra	Natural England	n/a

## 11 Inappropriate cutting/mowing

Inappropriate timing of taking the hay crop from northern hay meadows impacts on vegetation composition and structure and hence the ability to restore unfavourable examples of an already extremely restricted habitat. The mechanisms to address this are only partly effective.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>11A</b>	Implement the outcomes of the Uplands Evidence review on hay meadows via renegotiation of HLS/NELMS prescriptions. Some investigation/field trials will be required to demonstrate the desired outcome.	£200,000	2014-20	Rural Development Programme for England (RDPE): Environmental Stewardship Higher Level Scheme (HLS)	Higher Level Stewardship (HLS)	Natural England	North Pennines AONB, Wildlife Trust(s), Local Enterprise Partnership (LEP)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>11B</b>	Where negotiations prove ineffective, review existing consents and implement outcomes.	Not yet determined	2018-25	Regulation: Compulsory Withdraw/Modify Notice/Consent	Defra	Natural England	n/a

## 12 Invasive species

An increase in dominance of larger, more competitive rushes, in particular soft rush, has been observed over much of the North Pennines, particularly in the moorland fringes. This affects the structure and composition of habitats into which the rushes have spread. The reasons for this (management or environmental change) are unclear.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>12A</b>	Research to understand causes of spread of rushes and trial control methods.	£75,000	2015-25	Investigation / Research / Monitoring	Defra	Natural England	North Pennines AONB, RSPB, Wildlife Trust(s), Yorkshire Dales National Park Authority, University(ies), Farmer network

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>12B</b>	Advise on appropriate control methods and ensure relevant management is being delivered.	£200,000	2014-20	Advice	HLS/NELMS	Natural England	North Pennines AONB, RSPB, Wildlife Trust(s), Yorkshire Dales National Park Authority, Farmer network

### 13 Agricultural management practices

1. Localised enrichment from feed sites and wider impacts from unsustainable winter grazing levels on sensitive habitats. 2. General agricultural intensification of the moorland fringes outside the site boundary could have long term effects on populations of breeding birds within the SPA which are reliant on these for feeding (eg curlew, golden plover).

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>13A</b>	Ensure appropriate stock feeding, winter grazing and management of in-bye through negotiation, provision of advice and appropriate environmental stewardship prescriptions.	£100,000	2014-20	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Higher Level Stewardship (HLS), New Environmental Land Management Scheme (NELMS)	Natural England	n/a
<b>13B</b>	Review consents and if re-negotiation unsuccessful source funding to implement outcomes.	Not yet determined	2015-25	Regulation: Compulsory Withdraw/Modify Notice/Consent	Defra, Natural England	Natural England	n/a

## 14 Vehicles

Vehicle use for moorland or agricultural management or for recreational activity can damage habitats associated with soft ground in particular. It can also have direct impacts on or cause disturbance to breeding birds.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>14A</b>	Monitor adherence to consents/ moorland management plans for vehicle use based on evidence provided via monitoring and surveillance.	£50,000	2014-24	Enforcement	Not yet determined	Natural England	n/a
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>14B</b>	Investigate and negotiate alternative access routes and solutions where access routes are impacting on interest features.	£100,000	2014-25	Advice: Negotiation	Natural England, Research project, AONB, The Moorland Association	Natural England	North Pennines AONB, Yorkshire Dales National Park Authority, The Moorland Association

## 15 Vehicles: illicit

There are localised but severe effects on bird populations and habitats through disturbance and direct physical damage as a result of illegal vehicle activity eg motorbikes.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>15A</b>	Deter illegal vehicle access across the SAC and SPA through partnership working between Natural England, the Police and landowners. Police to organise operations to catch offenders.	Staff time	2014-20	Enforcement: S34 Road Traffic Act/ S28p(6) Liaison With Natural England	Not yet determined	Natural England	Cumbria Constabulary, Durham Constabulary, Natural England, North Yorkshire Police, Northumbria Police, Landowner(s), Gamekeepers/ managers

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>15B</b>	Raise awareness of the designated sites to third parties through signage, media - newspapers, websites (including motorbike and four wheel drive groups).	£5,000	2014-20	Advice: Signage	Not yet determined	Natural England	Cumbria Constabulary, Durham Constabulary, North Pennines AONB, North Yorkshire Police, Northumbria Police

## 16 Public Access/Disturbance

There are localised but severe effects on bird populations and habitats through disturbance and direct physical damage as a result of high or inappropriate recreational usage. As well as well established traditional walking routes (eg coast to coast path and Pennine Way) recreational activities such as gill scrambling, mountain-biking, geocaching and large organised outdoor events are increasing.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>16A</b>	Review the impacts of existing and future public access on SPA and SAC features.	£10,000	2014-20	Investigation / Research / Monitoring	Not yet determined	Natural England	Local Authority(ies), Natural England, University(ies), British Trust for Ornithology (BTO)

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>16B</b>	Raise awareness of vulnerable habitats and species, locally and nationally.	£10,000	2014-21	Advice: Education & awareness raising	Not yet determined	Natural England	North Pennines AONB, Wildlife Trust(s), Yorkshire Dales National Park Authority, Landowner(s), The Moorland Association, Game & Wildlife Conservation Trust (GWCT)

## 17 Deer

Grazing of trees by deer reduces regeneration, thereby having an impact on the structure of the Juniper and Sessile oak woodland interest features.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
17A	Manage deer populations in areas with Juniper and Sessile Oak Woodland to levels compatible with Favourable Conservation Status of these features.	£10,000	2014-20	Mechanism not identified / develop mechanism	Not yet determined	Natural England	Forestry Commission, Landowner(s), Voluntary conservation organisation(s)

## 18 Feature location/ extent/ condition unknown

National research is needed to better understand favourable conservation status for some features. Some types of survey data are lacking or out of date which means knowledge of interest features is limited:

- Some smaller scale and less well described habitats are poorly mapped within the site. Therefore current extent and distribution is poorly understood.
- New bird surveys are needed to check if the current SPA boundary now qualifies for the assemblage feature. Survey of in-bye land would be helpful to see if any qualifies for SPA or SAC status for birds or other interest features eg. Juniper, that are known to occur on land adjacent to the Natura 2000 site.
- For the *Vertigo genesii* population, dynamics are poorly understood.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
18A	Commission and promote new and existing national research to develop a better understanding of favourable conservation status of blanket bog and other habitats and species within the SAC / SPA.	Not yet determined	2014-20	Investigation / Research / Monitoring	Natural England	Natural England	Defra, British Trust for Ornithology (BTO), Joint Nature Conservation Committee (JNCC)
18B	Undertake survey of smaller scale SAC features i.e alkaline fen, petrifying springs with tufa formation and alpine pioneer formations of the caricion bicoloris-atrofuscae habitats for which extent and distribution poorly understood.	£265,000	2014-19	Investigation / Research / Monitoring	Natural England	Natural England	n/a

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>18C</b>	Undertake bird survey of SPA and surrounding in-by-ye, to determine current population levels and explore whether inclusion of further in-by-ye land within the SPA boundary should be considered.	£300,000	2014-19	Investigation / Research / Monitoring	Natural England	Natural England	RSPB, British Trust for Ornithology (BTO)
<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>18D</b>	Carry out a study of <i>Vertigo genesii</i> population dynamics.	£10,000	2014-19	Investigation / Research / Monitoring	Natural England, Natural Environment Research Council (NERC)	Natural England	University(ies), Natural Environment Research Council (NERC)

## 19 Climate change

There is a threat to the distribution and range of species and habitats which are at the edge of their climatic range as result of climate and environmental change. This has the potential to have severe and widespread effects in the longer term.

<i>Action</i>	<i>Action description</i>	<i>Cost estimate</i>	<i>Timescale</i>	<i>Mechanism</i>	<i>Funding option</i>	<i>Delivery lead body</i>	<i>Delivery partner(s)</i>
<b>19A</b>	Review likely climate change impacts, and identify appropriate adaptation actions.	Not yet determined	2015-21	Mechanism not identified / develop mechanism	Not yet determined	Natural England	n/a



## Site details

The tables in this section contain site-relevant contextual information and links

### Qualifying features

#UK Special responsibility

#### Moor House-Upper Teesdale SAC

H7220# Petrifying springs with tufa formation (*Cratoneurion*)

H7230 Alkaline fens

H6150 Siliceous alpine and boreal grasslands

H7130# Blanket bogs

H7230 Alkaline fens

H6410 Molinia meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)

H7240# Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*

H8110 Siliceous scree of the montane to snow levels (*Androsacetalia alpinae* and *Galeopsietalia ladani*)

H8120 Calcareous and calcshist screes of the montane to alpine levels (*Thlaspietea rotundifolii*)

H6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels

H8210 Calcareous rocky slopes with chasmophytic vegetation

H6520 Mountain hay meadows

H8220 Siliceous rocky slopes with chasmophytic vegetation

H8240# Limestone pavements

H6210# Semi-natural dry grasslands and scrubland facies: on calcareous substrates (*Festuco-Brometalia*)

S1015 *Vertigo genesii*: Round-mouthed whorl snail

S1528 *Saxifraga hirculus*: Marsh saxifrage

H4030 European dry heaths

H4060 Alpine and Boreal heaths

H5130 Juniperus communis formations on heaths or calcareous grasslands

H6130 Calaminarian grasslands of the *Violetalia calaminariae*

#### North Pennine Moors SAC

H6130 Calaminarian grasslands of the *Violetalia calaminariae*

H6210# Semi-natural dry grasslands and scrubland facies: on calcareous substrates (*Festuco-Brometalia*)  
H7220# Petrifying springs with tufa formation (*Cratoneurion*)  
H6150 Siliceous alpine and boreal grasslands  
H7130# Blanket bogs  
H7230 Alkaline fens  
H8110 Siliceous scree of the montane to snow levels (*Androsacetalia alpinae* and *Galeopsietalia ladani*)  
  
H8210 Calcareous rocky slopes with chasmophytic vegetation  
H8220 Siliceous rocky slopes with chasmophytic vegetation  
H91A0 Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles  
  
S1528 *Saxifraga hirculus*: Marsh saxifrage  
H4010 Northern Atlantic wet heaths with *Erica tetralix*  
  
H4030 European dry heaths  
H5130 *Juniperus communis* formations on heaths or calcareous grasslands  
A082(B) *Circus cyaneus*: Hen harrier  
A098(B) *Falco columbarius*: Merlin  
  
A103(B) *Falco peregrinus*: Peregrine falcon  
A140(B) *Pluvialis apricaria* : European golden plover

## North Pennine Moors SPA

### Site location and links

#### Moor House-Upper Teesdale SAC

Area (ha) **38795.99**      Grid reference **NY799358**

[Map link](#)

Local Authorities

Cumbria; Durham

Site Conservation Objectives

[European Site Conservation Objectives for Moor House-Upper Teesdale SAC](#)

European Marine Site conservation advice

[n/a](#)

Regulation 33/35 Package

[n/a](#)

Marine Management Organisation site plan

[n/a](#)

### **North Pennine Moors SAC**

Area (ha) **103109.42**    Grid reference **SE137749**    [Map link](#)

Local Authorities    Cumbria; Durham; Northumberland; North Yorkshire

Site Conservation Objectives    [European Site Conservation Objectives for North Pennine Moors SAC](#)

European Marine Site conservation advice    [n/a](#)

Regulation 33/35 Package    [n/a](#)

Marine Management Organisation site plan    [n/a](#)

### **North Pennine Moors SPA**

Area (ha) **147246.41**    Grid reference **NY841291**    [Map link](#)

Local Authorities    Cumbria; Durham; North Yorkshire; Northumberland

Site Conservation Objectives    [European Site Conservation Objectives for North Pennine Moors SPA](#)

European Marine Site conservation advice    [n/a](#)

Regulation 33/35 Package    [n/a](#)

Marine Management Organisation site plan    [n/a](#)

## Water Framework Directive (WFD)

The Water Framework Directive (WFD) provides the main framework for managing the water environment throughout Europe. Under the WFD a management plan must be developed for each river basin district. The River Basin Management Plans (RBMP) include a summary of the measures needed for water dependent Natura 2000 sites to meet their conservation objectives. For the second round of RBMPs, SIPs are being used to capture the priorities and new measures required for water dependent habitats on Natura 2000 sites. SIP actions for non-water dependent sites/habitats do not form part of the RBMPs and associated consultation.

Additional information is provided on targets for flow and some water quality parameters, in order to meet the conservation objectives for certain Natura 2000 sites. The relevant targets are identified in the revised conservation objectives document (see link to PDF below).

These targets have been revised for a number of Natura 2000 rivers and lakes, following a review by the conservation agencies of Common Standards Monitoring Guidance. For rivers, this is done through local discussions between Natural England and Environment Agency staff. For lake sites, the only parameter where alignment of standards was reviewed was phosphorus and so this work was undertaken jointly at a national level.

The linked PDF documents include the proposed target values, and also set out an 'interim progress goal', that will need to be achieved by 2021. Where sufficient information is available the document also identifies a timescale for achievement of the longer-term target. For any sites where it has not been possible to agree specific targets, usually because further technical work is required, these will be indicated in the documents by an asterisk. For further information please see Part 2 of the River Basin Plan

### Moor House-Upper Teesdale SAC

River basin

[Northumbria RBMP](#)    [Solway Tweed RBMP](#)

WFD Management catchment

Eden and Esk, Tees, Tyne, Wear

WFD Waterbody ID (Cycle 2 draft)

GB102076070750, GB102076070770, GB102076070850, GB102076070880, GB102076070910, GB102076070960, GB102076071000, GB102076073790, GB102076073800, GB102076073810, GB102076073820, GB103023075360, GB103023075370, GB103023075380, GB103023075390, GB103023075410, GB103024077430, GB103025072250, GB103025072351, GB103025072352, GB103025072440, GB103025072471, GB103025072480, GB103025072490, GB103025072500, GB103025072511, GB103025072530, GB103025076050, GB103025076080, GB30328860

Locally revised Conservation Objectives

Additional information on locally revised Conservation Objectives

[n/a](#)

EA/ NE agreed RBMP lake SAC targets

[Proposed total phosphorus targets for Lake Natura 2000 Protected Area Special Areas of Conservation for the updated river basin management plan consultation](#)

### River Restoration Plan

Source of information on river restoration plans for SAC rivers where these are in place or planned, with links to documentation where this is available.

Webpage link: Restoring Designated Rivers

[n/a](#)

River Restoration Plan document

[n/a](#)

### North Pennine Moors SAC

<i>River basin</i>	<a href="#">Humber RBMP</a>	<a href="#">North West RBMP</a>	<a href="#">Northumbria RBMP</a>	<a href="#">Solway Tweed RBMP</a>
<i>WFD Management catchment</i>	Aire and Calder, Eden and Esk, Swale, Ure, Nidd & Upper Ouse, Tees, Tyne, Wear, Weaver/Gowy			
<i>WFD Waterbody ID (Cycle 2 draft)</i>	GB102076070590, GB102076074010, GB102076074020, GB102076074040, GB103023074680, GB103023074690, GB103023074710, GB103023074740, GB103023074750, GB103023074760, GB103023074770, GB103023075450, GB103023075460, GB103023075470, GB103023075500, GB103023075531, GB103023075591, GB103023075600, GB103024072690, GB103024072700, GB103024072770, GB103024077360, GB103024077510, GB103024077520, GB103025072090, GB103025072120, GB103025072170, GB103025072230, GB103025072240, GB103025072250, GB103025072351, GB103025072352, GB103025072490, GB103025072511, GB104027063060, GB104027063070, GB104027063810, GB104027063880, GB104027063890, GB104027064050, GB104027064060, GB104027064070, GB104027064080, GB104027064120, GB104027064130, GB104027064257, GB104027064258, GB104027068294, GB104027068295, GB104027068380, GB104027068980, GB104027069030, GB104027069040, GB104027069050, GB104027069070, GB104027069080, GB104027069090, GB104027069100, GB104027069110, GB104027069121, GB104027069130, GB104027069170, GB104027069200, GB104027069210, GB104027069260, GB104027069270, GB104027069300, GB104027069310, GB104027069330, GB104027069463, GB104027069464, GB104027069470, GB104027069480, GB104027069490, GB104027069510, GB104027069520, GB30328395, GB30328671, GB30328674, GB30328696, GB30328810, GB30430012, GB30430033			
<i>Locally revised Conservation Objectives</i>				
<i>Additional information on locally revised Conservation Objectives</i>	<a href="#">n/a</a>			
<i>EA/ NE agreed RBMP lake SAC targets</i>	<a href="#">n/a</a>			
<b>River Restoration Plan</b>				
<i>Source of information on river restoration plans for SAC rivers where these are in place or planned, with links to documentation where this is available.</i>				
<i>Webpage link: Restoring Designated Rivers</i>	<a href="#">n/a</a>			
<i>River Restoration Plan document</i>	<a href="#">n/a</a>			
<b>North Pennine Moors SPA</b>				
<i>River basin</i>	<a href="#">Humber RBMP</a>	<a href="#">North West RBMP</a>	<a href="#">Northumbria RBMP</a>	<a href="#">Solway Tweed RBMP</a>
<i>WFD Management catchment</i>	Aire and Calder, Eden and Esk, Swale, Ure, Nidd & Upper Ouse, Tees, Tyne, Wear, Weaver/Gowy			

WFD Waterbody ID (Cycle 2 draft)

GB102076070590, GB102076070750, GB102076070770, GB102076070850, GB102076070880, GB102076070910, GB102076070960, GB102076071000, GB102076073790, GB102076073800, GB102076073810, GB102076073820, GB102076074010, GB102076074020, GB102076074040, GB103023074670, GB103023074680, GB103023074690, GB103023074710, GB103023074740, GB103023074750, GB103023074760, GB103023074770, GB103023075360, GB103023075370, GB103023075380, GB103023075390, GB103023075410, GB103023075450, GB103023075460, GB103023075470, GB103023075500, GB103023075531, GB103023075591, GB103023075600, GB103024072690, GB103024072700, GB103024072770, GB103024077360, GB103024077430, GB103024077510, GB103024077520, GB103025072090, GB103025072120, GB103025072170, GB103025072230, GB103025072240, GB103025072250, GB103025072330, GB103025072340, GB103025072351, GB103025072352, GB103025072440, GB103025072471, GB103025072480, GB103025072490, GB103025072500, GB103025072511, GB103025072530, GB103025076050, GB103025076080, GB104027063060, GB104027063070, GB104027063810, GB104027063880, GB104027063890, GB104027064050, GB104027064060, GB104027064070, GB104027064080, GB104027064120, GB104027064130, GB104027064257, GB104027064258, GB104027068294, GB104027068295, GB104027068380, GB104027068980, GB104027069030, GB104027069040, GB104027069050, GB104027069070, GB104027069080, GB104027069090, GB104027069100, GB104027069110, GB104027069121, GB104027069130, GB104027069170, GB104027069200, GB104027069210, GB104027069260, GB104027069270, GB104027069300, GB104027069310, GB104027069330, GB104027069463, GB104027069464, GB104027069470, GB104027069480, GB104027069490, GB104027069510, GB104027069520, GB30328395, GB30328671, GB30328674, GB30328696, GB30328810, GB30328860, GB30328976, GB30328995, GB30430012, GB30430033

Locally revised Conservation Objectives

Additional information on locally revised Conservation Objectives

[n/a](#)

EA/ NE agreed RBMP lake SAC targets

[n/a](#)

### River Restoration Plan

Source of information on river restoration plans for SAC rivers where these are in place or planned, with links to documentation where this is available.

Webpage link: Restoring Designated Rivers

[n/a](#)

River Restoration Plan document

[n/a](#)

## Overlapping or adjacent protected sites

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

#### Moor House-Upper Teesdale SAC

Moor House & Cross Fell SSSI

Appleby Fells SSSI

River Eden & Tributaries SSSI

Lune Forest SSSI

Upper Teesdale SSSI

#### North Pennine Moors SAC

Mallerstang-Swaledale Head SSSI

Hexhamshire Moors SSSI

Allendale Moors SSSI

Lune Forest SSSI

River Eden & Tributaries SSSI

Muggleswick, Stanhope & Edmundbyers Commons & Blanchland Moors SSSI

Whitfield Moor, Plenmeller & Ashholme Commons SSSI

Bollihope, Pikestone, Eggleston & Woodland Fells SSSI

East Nidderdale Moors (Flamstone Pin-High Ruckles) SSSI

Appleby Fells SSSI

Arkengarthdale, Gunnerside & Reeth Moors SSSI

Harkers House Meadows SSSI

The Bog SSSI

Geltsdale & Glendue Fells SSSI

Bowes Moor SSSI

Cotherstone Moor SSSI

Lovely Seat-Stainton Moor SSSI

West Nidderdale, Barden & Blubberhouses Moors SSSI

#### North Pennine Moors SPA

Grains O'th' Beck Meadows SSSI

West Nidderdale, Barden & Blubberhouses Moors SSSI

Hexhamshire Moors SSSI  
 Allendale Moors SSSI  
 Lune Forest SSSI  
 River Eden & Tributaries SSSI  
 Muggleswick, Stanhope & Edmundbyers Commons & Blanchland Moors SSSI  
 Whitfield Moor, Plenmeller & Ashholme Commons SSSI  
 Bollihope, Pikestone, Eggleston & Woodland Fells SSSI  
 East Nidderdale Moors (Flamstone Pin-High Ruckles) SSSI  
 Cotherstone Moor SSSI  
 Appleby Fells SSSI  
 Moor House & Cross Fell SSSI  
 Mallerstang-Swaledale Head SSSI  
 Upper Teesdale SSSI  
 Harkers House Meadows SSSI  
 The Bog SSSI  
 Hartley Cleugh SSSI  
 Geltsdale & Glendue Fells SSSI  
 Bowes Moor SSSI  
 Arkengarthdale, Gunnerside & Reeth Moors SSSI  
 Lovely Seat-Stainton Moor SSSI

#### National Nature Reserve (NNR)

<b>Moor House-Upper Teesdale SAC</b>	Moor House-Upper Teesdale NNR
<b>North Pennine Moors SAC</b>	Moor House-Upper Teesdale NNR
<b>North Pennine Moors SPA</b>	Moor House-Upper Teesdale NNR

#### Ramsar

<b>Moor House-Upper Teesdale SAC</b>	n/a
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<b>North Pennine Moors SAC</b>	n/a
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<b>North Pennine Moors SPA</b>	n/a
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### **Special Areas of Conservation (SAC) and Special Protection Areas (SPA)**

<b>Moor House-Upper Teesdale SAC</b>	North Pennine Moors SPA
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<b>North Pennine Moors SAC</b>	North Pennine Moors SPA
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<b>North Pennine Moors SPA</b>	River Eden SAC
	North Pennine Moors SAC
	North Pennine Dales Meadows SAC
	Moor House-Upper Teesdale SAC

<i>Version</i>	<i>Date</i>	<i>Comment</i>
1.0	04/12/2014	

[www.naturalengland.org.uk/ipens2000](http://www.naturalengland.org.uk/ipens2000)

