Improvement Programme for England's Natura 2000 Sites (IPENS) Planning for the Future

Site Improvement Plan Asby Complex

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, or contact Natural England's Responsible Officer for the site via our enquiry service 0300 060 3900, or enquiries@naturalengland.org.uk

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

UK0014778 Asby Complex SAC

Site description

The Asby Complex is a suite of upland sites supporting a rich mosaic of heathland with calcareous grassland, alkaline flushes and limestone pavement. The site is important for a rare assemblage of vascular plants associated with the grassland, flushes and pavement and is also important for upland breeding birds.

Much of the land within the Asby Complex comprises common land or large upland allotments where the main land management is sheep grazing and some sporting management.

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 Change in land management | Threat | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H4030 European dry heaths, H6410 Purple moor-grass meadows, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H8240 Limestone pavements, S1013 Geyer`s whorl snail, S1393 Slender green feather-moss | Implement appropriate grazing across the site | Natural England, Commons group(s) |
| 2 Hydrological changes | Pressure | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H6410 Purple moor-grass meadows, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, S1013 Geyer's whorl snail, S1393 Slender green feathermoss | Identify abstraction sources and impacts on the hydrology | Environment Agency, Natural England, University(ies) |
| 3 Inappropriate stock feeding | Threat | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H4030 European dry heaths, H6410 Purple moor-grass meadows, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H8240 Limestone pavements, S1013 Geyer`s whorl snail, S1393 Slender green feather-moss | Enforce illegal stock feeding | Natural England, Landowner(s) |
| 4 Water Pollution | Pressure | H3140 Calcium-rich nutrient-poor lakes, lochs and pools | Further investigation of sources of diffuse inputs | Natural England |

| 5 Invasive species | Threat | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7230 Calcium-rich springwater-fed fens | Adopt best practice management solutions | Environment Agency, Natural England, South Cumbria Rivers Trust |
|------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 6 Fish stocking | Threat | H3140 Calcium-rich nutrient-poor lakes, lochs and pools | Monitor fish stocking and work with leaseholder to reduce impacts | Environment Agency, Natural England |
| 7 Air Pollution: impact of atmospheric nitrogen deposition | Pressure | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H4030 European dry heaths, H6410 Purple moor-grass meadows, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H8240 Limestone pavements, S1013 Geyer`s whorl snail, S1393 Slender green feather-moss | Reduce the extent of atmospheric air pollution | Not yet determined |
| 8 Public Access/Disturbance | Threat | H3140 Calcium-rich nutrient-poor lakes, lochs and pools, H4030 European dry heaths, H6410 Purple moor-grass meadows, H7210 Calcium-rich fen dominated by great fen sedge (saw sedge), H7220 Hard-water springs depositing lime, H7230 Calcium-rich springwater-fed fens, H8240 Limestone pavements, S1013 Geyer`s whorl snail, S1393 Slender green feather-moss | Produce an access strategy | Cumbria County Council, Natural England, Yorkshire Dales National Park Authority |

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 Change in land management

The Asby Complex is a series of upland habitats, most of which are common land where the primary management is sheep grazing. Recent levels of sheep grazing are not conducive to achieving favourable condition on the mosaic of heathland and limestone grassland and much of the land is now managed under HLS to introduce cattle grazing. However, there are areas where this beneficial management has not been secured and, whilst they may be managed sensitively at present, any change in land management may have a detrimental effect on the SAC features. The beneficial changes in management achieved through HLS has often had a reliance on fencing, which if removed, would lead to a decline in SAC features. As much of the land is common land, secretary of state approval is required for most fencing proposals.

| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|---------------------|
| 1A | Introduce cattle grazing in areas where it is not currently present, to disperse sheep grazing evenly across the fell and prevent localised overgrazing. Cattle will also graze non-selectively across the vegetation and therefore result in a more diverse sward. | £100,000 | 2015-20 | Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme) | Not yet determined | Natural England | n/a |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 1B | Apply for fencing as required to ensure that the appropriate grazing is achieved. | £10,000 | 2015-20 | Mechanism not identified / develop mechanism | Not yet determined | Consultant | Natural England |

| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------------------------------------------------------------|--------------------------------------------|---------------------------|----------------------------|
| 1C | Work with the Commons Groups and the major landowners to achieve a sustainable level of grazing that will allow the interest features to be maintained in favourable condition. This may require some alteration in current grazing rights. drological changes | Not yet determined | 2015-20 | Regulation: Compulsory Withdraw/Modify Notice/Consent | Not yet determined | Natural England | Commons group(s) |
| | | damaatia and aar | mmoraial aguraa | o including a large gue | ra within the Ashv | Compley. The offeet of al | I those individual changes |
| to the | are numerous abstractions from both or local water table is poorly understood as notified, specifically the alkaline flusher. | and the in combin | | | | | |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 2A | Work with researchers, Environment Agency and possibly employ external consultants to understand the complex hydrology of the underlying karstic system, and how the current and future abstractions impact upon it. | £500,000 | 2015-20 | Investigation / Research / Monitoring | Natural England, Research project | Natural England | University(ies) |
| 3 Ina | ppropriate stock feeding | | | | | | |
| Fodde | ering of sheep on the fell in winter is reg | ularly carried out | where land is n | ot under agreement. T | his leads to localis | ed suppression of heathla | nd vegetation. |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 3A | Natural England and relevant major landowners need to take a stronger line on this issue to tackle the unconsented and illegal stock feeding that is occurring on Common Land. This could be achieved through the appointment of a consultant to work with key land owners and Commons Associations to agree good practice, or it could be achieved through enforcement. | £5,000 | 2015-20 | Major Landowner Group land ownership activities : Other | Not yet determined | Natural England | Landowner(s) |
| | | | | | | | |

| | ter Pollution | | | | | | |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------|--------------------------------------------------------------------|-----------------------|------------------------------|------------------------------------------------------|
| | gull colony, no longer present on site ogy make it difficult to pinpoint the sou | | ic legacy of enr | ichment in the Tarn. Th | nere are likely to be | e additionial inputs from di | ffuse sources but complex |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 4A | Investigation into the sources of diffuse pollution. | £25,000 | 2015-17 | Investigation / Research / Monitoring | Natural England | Natural England | Catchment Sensitive Farming (CSF) |
| 5 Inva | asive species | | | | | | |
| Introdu | ction or spreading of non native speci | es such as <i>Crass</i> | sula helmsii wou | ıld significantly impact tl | ne integrity of the T | Tarn. | |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 5A | Implement the Cumbria Freshwater Biosecurity Plan, to control and eradicate invasive non-native species through a national co- ordinated approach. | Not yet determined | 2015-20 | Invasive Control Plan: Invasive Species Control Programme | Not yet determined | Natural England | Environment Agency, South Cumbria Rivers Trust |
| | h stocking opriate fish stocking would be detrime | ntal to the the inte | erect feetures of | f the tarn if it takes place | | | |
| | • | | | • | | Daliyan, lood bady | Dalli samo mantinanta) |
| | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 6A | Continue to monitor existing fish stocking activity via the consenting process and work with the fisheries lease holder to further reduce the impact of fisheries activities. | Not yet determined | 2015-20 | Regulation: Environmental Permits | Not yet determined | Natural England | Environment Agency |
| | Pollution: impact of atmospheri | | osition | | | | |
| Nitroge | en deposition exceeds site relevant cri | tical loads. | | | | | |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) |
| 7A | 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 |
| | | | | | | | |

| 8 Pu | 8 Public Access/Disturbance | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|----------------------------|-----------------------|--------------------------------------------|-----------------------------------------------|--|--|
| The area is within the proposed extension area of the Yorkshire Dales National Park. The raising of the profile of this area could lead to increased disturbance and damage to sensitive features. | | | | | | | | | |
| Action | Action description | Cost estimate | Timescale | Mechanism | Funding option | Delivery lead body | Delivery partner(s) | | |
| 8A | Work closely with Yorkshire Dales National Park and Access specialists in Natural England, to ensure that the promotion of recreation is focused away from sensitive areas. | | 2015-20 | Advice: Access Strategy | Not yet determined | Yorkshire Dales National Park Authority | Cumbria County Council, Natural England | | |

Site details

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

Qualifying features

#UK Special responsibility

Asby Complex SAC S1393 Drepanocladus (Hamatocaulis) vernicosus: Slender green feather-moss

H3140 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp

H4030 European dry heaths

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

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

H7210# Calcareous fens with Cladium mariscus and species of the Caricion davallianae

H7220# Petrifying springs with tufa formation (Cratoneurion)

H7230 Alkaline fens

H8240# Limestone pavements

S1013 Vertigo geyeri: Geyer's whorl snail

Site location and links

Asby Complex SAC

Area (ha) 3122.23 Grid reference NY598112 Map link
Local Authorities Cumbria

Site Conservation Objectives <u>European Site Conservation Objectives for Asby Complex SAC</u>

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 (RMBP) 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

Asby Complex SAC

River basin North West RBMP

WFD Management catchment Eden and Esk, Lune

WFD Waterbody ID (Cycle 2 draft) GB102076070710, GB102076070840, GB112072071830

Locally revised Conservation Objectives

Additional information on locally revised <u>n/a</u>

Conservation Objectives

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

Overlapping or adjacent protected sites

| Site(s) | of Sp | ecial S | Scientific | Interest (| (SSSI) |
|---------|-------|---------|------------|------------|--------|
|---------|-------|---------|------------|------------|--------|

Asby Complex SAC Ewefell Mire SSSI

Sunbiggin Tarn & Moors & Little Asby Scar SSSI

Crosby Ravensworth Fell SSSI

Great Asby Scar SSSI

Crosby Gill SSSI

The Clouds SSSI

National Nature Reserve (NNR)

Asby Complex SAC Great Asby Scar NNR

Ramsar

Asby Complex SAC n/a

Special Areas of Conservation (SAC) and Special Protection Areas (SPA)

Asby Complex SAC n/a







