We restored some 20 acres of wetland habitat making a significant contribution to Surrey's Habitat Action Plan for Flood Plain Grassland. Another benefit of the scheme is that it helped with localised flooding by holding the floodwater back for longer in a river catchment where the water flashes through. The project also improved public access and visually enhanced the area.

So what has been created?

# THE END RESULT

Implementation of the scheme on the ground was undertaken by Oxfordshire based firm White Horse Contractors and Surrey Wildlife Trust joined the partnership, making a commitment to take on long-term management of the site.

The Environment Agency carried out advanced works to create the structures to feed water from the Redhill Brook to the scheme, and enhanced the line of the watercourse itself. With planning permission, draft management plans and detailed costings in place, funding for the scheme was obtained from Biffaward with a grant of £300,000.

# FUNDING & IMPLEMENTATION

out in the summer.

The second challenge was that of hydrology. The Moors seasonally floods from the Redhill Brook, but the floodwaters can disappear very quickly and the site can become quite dry in the summer. Research established that the site used to be much wetter, but there was a need to understand how water levels behave now and what they are likely to do in the future. After further research it was decided to artificially line the new shallow wader pools and ponds to prevent them from drying

The first was that the Moors is a long thin corridor, with public footpaths on both flanks. Great for public enjoyment, but a challenge in terms of creating birds. This was overcome in the particularly for ground nesting birds. This was overcome in the design by careful location of the various features and building in screen bunding and planting.

Designing wetlands is never easy, and the Moors presented two key design issues.

## **DESIGNING A WETLAND**

create a single river corridor.

Linden Homes) and land to the south by another (Biffa Waste Services). The landowners were keen to do something with their respective parts of the Moors and, through the Nutfield Ridge & Marsh Project, both parts of the site were brought together to



Part of the problem was that ownership of the Moors was split, the land on the north of the Redhill Brook owned by one company (Hepworths later superceded by

By the mid 1990's, what hadn't been built on or dug up for sand and fullers earth, left a finger of green running along the Redhill Brook - the Moors. There had been proposals for the Moors, including the creation of a linear park with ornamental trees and mown grass, but none of them ever materialised.

Key to undertaking any scheme like this is the initial research. This means undertaking all kinds of surveys - ecological, hydrological, archaeological, etc. Historical records indicated a wetland had existed here for over a thousand years.

# SURVEYS & RESEARCH

The wider area surrounding the Moors, was extensively worked for minerals for many years before Surrey County Council promoted an environmental enhancement initiative, in association with the four companies operating in the area. This partnership became known as the Nutfield Ridge & Marsh Project. It created a shared vision for the area, and implemented a series of restoration and enhancement schemes including the Moors project – the creation of a new wetland nature reserve.

# HABITAT RESTORATION

The Moors lies to the East of Redhill, along the Redhill Brook, sandwiched between the Holmethorpe Lagoons to the South. It forms part largest landfill site to the South. It forms part of the Nutfield Marsh Nature Reserve.









You can walk around the edges of the Moors, following the footpaths, but don't be disappointed if you can't find many of the features that are described above.

They are hidden away in sanctuary areas of the site. Guided walks and other events are held which provide a chance to see how it all works. Alternatively why not join one of our regular work parties we're holding on the Moors!

## THE BIG PICTURE

**SEE HOW IT WORKS** 

The Moors is special for one further and very exciting reason. It is the western end of Nutfield Marsh Nature Reserve, (see map overleaf) stretching along the Redhill Brook some 2.5km to join up with Spynes Mere reserve to the West. This extended reserve will also incorporate Holmethorpe Lagoons and potentially Mercers West.

# The first is a pair of shallow pools designed as wader pools for bird species such as lapwing, snipe and redshank, which

The new features of the site fall into three main areas.

for bird species such as lapwing, snipe and redshank, which also attract green sandpiper. These pools are designed to progressively dry out as the Spring and Summer passes, exposing fresh muddy margins. They are fed by a water supply, in the event of drying out too fast, and can be topped up from a reservoir designed to look like a branch channel of the Redhill Brook. Floodwater can only be taken from the Brook in winter, so the channel floods and water is then held there.

The middle section comprises two deep ponds, which hold water all year round and are straddled by a new public access route. Hopefully these will attract great crested newt, which are found nearby, but not on the Moors itself. These ponds, like the other waterbodies created have been attractively planted up with native wetland plants appropriate to the area.

# The final section is a pair of small pools which are ideal for dragonflies.

Whilst the scheme is still settling in all the signs are that it is working. It floods beautifully in winter (the new permissive path gives you the feeling of walking on water!) and all the pools do exactly what they should in summer. Numbers of Snipe have more than quadrupled and the damselflies and dragonflies have been fantastic. Grazing b1y traditional "Sussex" breed cattle has now been introduced to manage many of the grassland areas.

The Moors you see today is thanks to the restoration of the site, through a partnership between Surrey Wildlife Trust, Biffa Waste Services, The Environment Agency, Linden Homes, Sibelco UK and Surrey County Council. The scheme was funded through the generosity of the Biffaward landfill tax scheme.









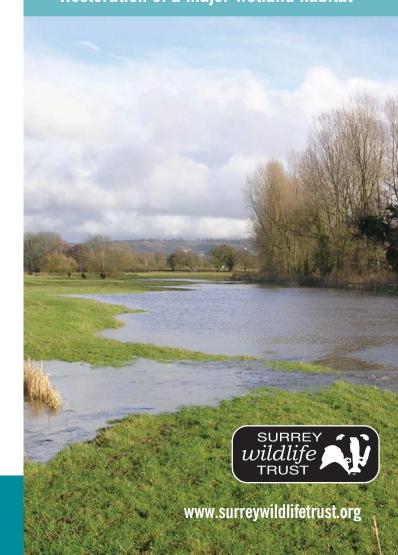




www.surreywildlifetrust.org



Restoration of a major wetland habitat



# Nutfield Marsh Nature Reserve



other without leaving from sand workings four wetland nature are easily accessible Project has created from one end to the The Nutfield Marsh reserves, restored

# you enjoy We hope

paths shown on the map. You can walk your visit. along the Redhill via a network of Brook. The sites the sanctuary of Guidelines nature reserve. Bicycles and horses pe on marked bridle route this extended National/ Regional Cycle Network Permissive Bridleway Footpath

# 2 Mercers West

Mercers West has the potential to become a 20ha restoration is just being completed by Sibelco UK. Mere to the Moors & Holmethorpe. The site is a extension to the Trust's reserve, linking Spynes former sand quarry, like Spynes Mere, and

> feed on the flood. In summer the such as mallard and teal flock to

damselflies such as banded

demoiselle, and bigger

pools are alive with small

waders, arrive for winter. Ducks

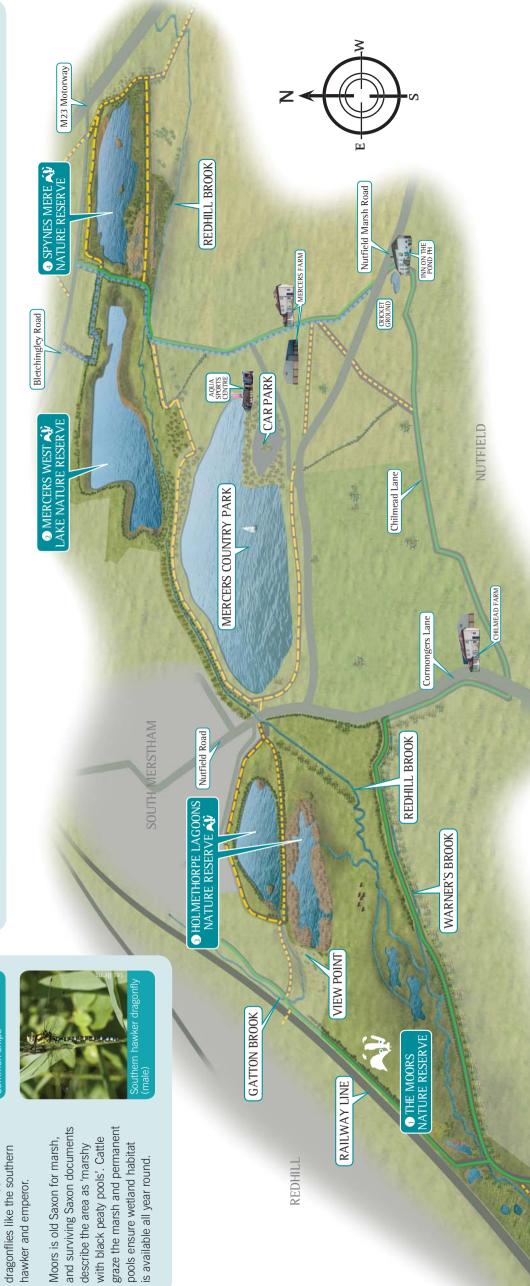
In autumn, snipe, and other

1) The Moors

This site is already good for wintering waterfowl, and sand martin. Wading birds such as green sandpiper sand faces have successfully been left for breeding around and view the reserve from the eastern end. can be seen on the muddy banks. You can walk







# oe Lagoons 3 Holmethor

particularly attractive to reedbed warblers, waterfowl works, this area is being restored as an integral part completion, apart from benefitting the full range of freshwater species, this part of the reserve will be Occupying the site of the former sand processing really lucky, wintering of the Water Colour housing development. On bittern may put in an appearance! and dragonflies. If we are



# 4 Spynes Mere

coots. The big south facing grassland slope is excellent The reserve is home to many waterbirds. They are at their greatest numbers in winter, when tufted duck, gadwall, and the occasional pochard ducks can be found, together with mute swans, little grebes and lizard and slow worms, which, if you're quiet, you for butterflies and grasshoppers, food of common might see basking in sunny spots.



