



Knigh t o n  
Countryside  
Management

WOODLAND • ECOLOGY • LANDSCAPE

# CASE STUDY

## BIODIVERSITY ENHANCEMENT

### Large Scale Woodland & Wetland Creation - ASEA Flood Defence Scheme

The Avonmouth and Severnside Enterprise Area (ASEA) Flood Defence Scheme integrates advanced flood management with strategic habitat creation and enhancement. Key aspects include:

1. Flood Defence Infrastructure
2. Habitat Creation
3. Habitat Enhancement
4. Environmental Integration

The ASEA Flood Defence Scheme aims to safeguard communities while promoting ecological health and resilience by combining robust flood protection with habitat creation and enhancement.

## BACKGROUND

Knighton Countryside Management assisted BAM Nuttall and Mott MacDonald Joint Venture Partnership in delivering the ecological and landscape aspects of the scheme.

## CHALLENGE

The size of the scheme, over 2000ha, presented varied tidal and wildlife challenges in delivering works to this scale, along with substantial complex environmental constraints.



## SOLUTION

At the start of the project, Knighton Countryside Management leveraged our large workforce and fleet of machinery to carry out large-scale clearance work in the final few weeks of the Winter, keeping the project on track before bird nesting season. In the following two years, we planted over 35,000 trees, helped create over 80ha of new wetland, seeded 100ha of wildflower grassland using five different seeding techniques, including Hydroseeding, high-precision drilling and hand broadcasting. These efforts significantly enhanced the biodiversity of the newly established flood defences.





## CONCLUSION

Our work on the Avonmouth ASEA Flood Defence Scheme significantly enhanced local ecosystems by creating diverse habitats, including wetlands, woodlands and meadows.

These improvements boost biodiversity, support wildlife, improve water quality, and strengthen ecological resilience. All of this while integrating flood protection with environmental stewardship for long-term ecological and community benefits.





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