

Tyne Estuary Partnership

River Enhancement Developers Guide



Vision

Tyne Estuary Partnership: Developing a Healthy and Vibrant River Estuary



Tyne Estuary: Mouth of the Tyne to tidal limit at Wylam

Aims

1. Develop a Partnership

A strong, strategic, influential partnership invested in long term environmental and economic enhancement of the iconic estuary.



2. Estuary Enhancements

Ecological and biodiversity improvements, meeting WFD objectives* and environmental net gain such as bank softening of estuary edges to reduce silting, pollution and improve water quality.



3. Wider Benefits

Realising the multiple wider benefits that joined up action can achieve such as natural capital gains, health and wellbeing improvements, education, social, cultural and heritage benefits.



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Enhancements Options

The enhancements options within this guide are summarised findings from the 'Tyne Estuary Edges Enhancement Study' report which is available upon request.



Vertical greening of banks:

- Vegetated Pontoons, Platforms & Edges
- Wooden planting frameworks
- Floating islands



Intertidal habitat creation & enhancing existing vegetation:

- Re-profiling edges
- Bio-engineered reinforcements
- Tiered Intertidal Ecosystems
- Saltmarsh enhancement



Fish habitat creation:

- Fish refuge boxes
- Egg laying medium
- Biofilm



Bird enhancements:

- Roosting rafts
- Kittiwake towers / ledges



Otter enhancements:

- Artificial otter holts
- Lying-up sites
- Ledges of bridges



Other enhancement options:

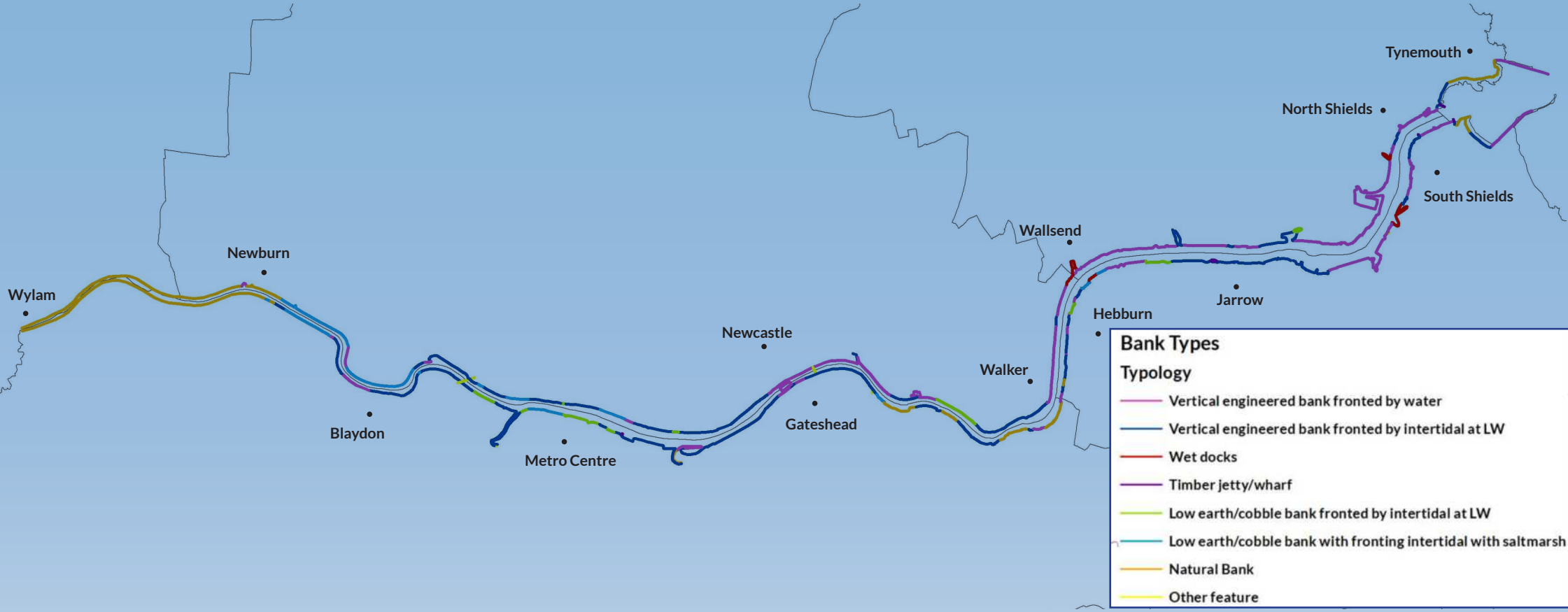
- Surface texture / niches
- Grab ropes / chains for algae
- Mussel ropes / boxes / cages
- Greening of roofs



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Bank Typology



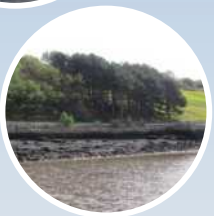
Vertical engineered bank



Wet dock



Timber jetty



Low cobble bank

























Low cobble bank with saltmarsh



Natural bank



Enhancements Summary

Bank Typology	Type of Enhancement
Vertical engineered bank fronted by water at all times	   
Vertical engineered bank fronted by Intertidal at LW	  
Wet Docks	  
Timber jetty/wharf	    
Low earth/cobble bank fronted at Intertidal at LW	 
Low earth/cobble bank fronted by intertidal with Saltmarsh	 
Natural bank	  



Greening of Banks



Fish Habitats



Bird Enhancements



Otter Enhancements



Other Enhancements



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CHANGING PLACES
CHANGING LIVES

Tyne Estuary Partnership Pledge

The Tyne Estuary Partnership covers the tidal reach of the River Tyne; from the mouth of the Tyne to Wylam. It has a bold vision for developing a healthy and vibrant river estuary with a strong, strategic, influential partnership invested in long term environmental and economic enhancement.

The Tyne Estuary Partnership brings together stakeholders from across sectors to tackle the collective challenge of enhancing the River Tyne. It responds to the Governments 25 Year Environment Plan; to create connections between existing initiatives and real practical actions.

The Pledge acknowledges that change cannot be achieved by a few regulatory tweaks, or any single organisation. Solutions are multi-sector and highly interconnected. We would strongly encourage any organisation with an interest in the Tyne to sign up to the Pledge to work together towards effective environmental and economic management that benefits all.

This Pledge builds on the work of the existing River Catchment partnerships and the Tyne Estuary Partnership Feasibility Study Report

Sign the pledge on Google Forms

www.groundwork.org.uk/the-tyne-estuary-partnership-pledge

Ever growing partners



www.groundwork.org.uk/projects/tyne-estuary-partnership

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