

Theme(s):	A: Conserve and restore river habitat, and adapt to / mitigate for the physical impacts of weather extremes and climate change.
Goal(s):	A1: Reduce pollution to the water environment.
Sub-goal(s):	A1a: Reduce point-source pollution to the water environment. A1b: Reduce diffuse pollution to the water environment. A1c: Clean-up pollution in or affecting the water environment.

Tackle the 3 main sources of river pollution in the Tyne system: metal-contaminated sediments (in the South Tyne and East and West Allen), nutrient-contaminated sediments (diverse agriculture/forestry sources), sediments from open-cast coal mines, and urban contaminated sediments (road sources). Two main tools make this project achievable - identification of 'hot-spot' sources eg. from remote sensing and walkovers, and source control techniques like buffers, bunding, Sustainable Drainage Systems and ponding. The project should also include a 'silt campaign', raising awareness of the impacts of poor riverside management practices on in-river health and ecosystems.

This is an 'umbrella' project for the many sub-projects that would be needed to tackle the varied and numerous pollution sources in the Tyne catchment.

Project Status:	Proposed
Potential Deliverer(s):	Rivers trusts and wildlife trusts already experienced in this sort of work. Catchment Sensitive Farming (if it can be applied to the Tyne catchment). Landowner and farm management organisations and campaigns. Essential co-ordination with Natural England, Forestry Commission and Highways funders. Northumbrian Water for sewerage network. Community groups and recreational users.
Estimated Timeframe:	More than 10 years
Estimated Project Cost:	£50,000 to £100,000
Potential Funding Source(s):	Mostly public sources which, for the foreseeable future, will be driven by Water Framework Directive compliance; for metals there may be financial advantages to working with the Coal Authority/Environment Agency; Northumbrian Water National Environment Programme for sewerage infrastructure
Additional benefits / links / opportunities:	Would help to tackle the issue of contaminated sediments in the Tyne estuary
Water Framework Directive link:	Zinc and cadmium failures on the South Tyne and East and West Allen; failures linked to diffuse pollution throughout the catchment