## NORTH CAROLINA ECOSYSTEM ENHANCEMENT PROGRAM

## Glade Creek On-Call Stream Restoration Services for North Carolina Ecosystem Enhancement Program

Alleghany County, North Carolina



top: Looking upstream on Glade Creek from bridge, postconstruction with initial conditions inset; above: Lower tributary after restoration, with repaired banks with initial conditions inset

The Glade Creek stream restoration project repaired badly eroded banks, reduced sedimentation in stream water and improved trout and aquatic life habitat.

iohabitats was retained by the NC Ecosystem Enhancement Program to restore unstable and eroded channel on approximately 2,430 feet of Glade Creek and approximately 275 feet on an unnamed tributary to Glade Creek, in the mountains of Alleghany County, North Carolina. The channel had become entrenched and unstable due to increased storm flows caused by intensive agricultural practices and logging in the watershed. The channel pattern, profile and dimension were reconfigured to improve stability, allow floodwaters access to the floodplain, and improve instream habitat. Glade Creek is a designated trout stream in North

Carolina. The NC Wildlife Resources Commission has expressed interest in restocking the strain of brook trout native to North Carolina in the restored unnamed tributary to Glade Creek. An existing beaver pond on Glade Creek was incorporated into the restoration design. This innovative approach will allow the beavers to maintain the pond while the restored channel bypasses the pond to allow for fish passage.

## SERVICES

Inventory & Assessments Design Design-Build Permitting Construction Procurement Construction Management

conservation planning **ecological restoration** regenerative design



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