

## Fish passage planning and design – Scope of services

James Cook University School of Engineering and Physical Sciences provides professional services in planning and design for fish passage / aquatic fauna connectivity at small waterway structures. This includes consulting, research and development for government agencies, local authorities, NRM bodies, consultants and contractors for the scope of work and **example projects** outlined below.

### Aquatic connectivity and impact assessment for waterways – Catchment/stream corridor scale

reconnaissance level habitat assessment	mitigation options, effectiveness and feasibility
barrier significance and connectivity impacts	prioritization for barrier mitigation

- **Tully Murray floodplain Bruce Highway Corduroy Creek to Tully** – Dept of Main Roads and Maunsell
- **Stuart Creek floodplain Townsville Port Access Road** – Dept of Main Roads and Maunsell

### Fish passage and multipurpose design for waterway structures – Site scale



evaluation of hydraulic barriers to fish migration	fish passage options and evaluation of suitability
fish passage design objectives and criteria	design and configuration of fish passage facilities

- **Splitters Creek Heales Road box culvert fishway** – Burnett Mary Regional Group & DPI Fisheries
- **Daunia Mine New Chum Creek culvert fishway** – BHP Billiton Mitsubishi Alliance and Bechtel