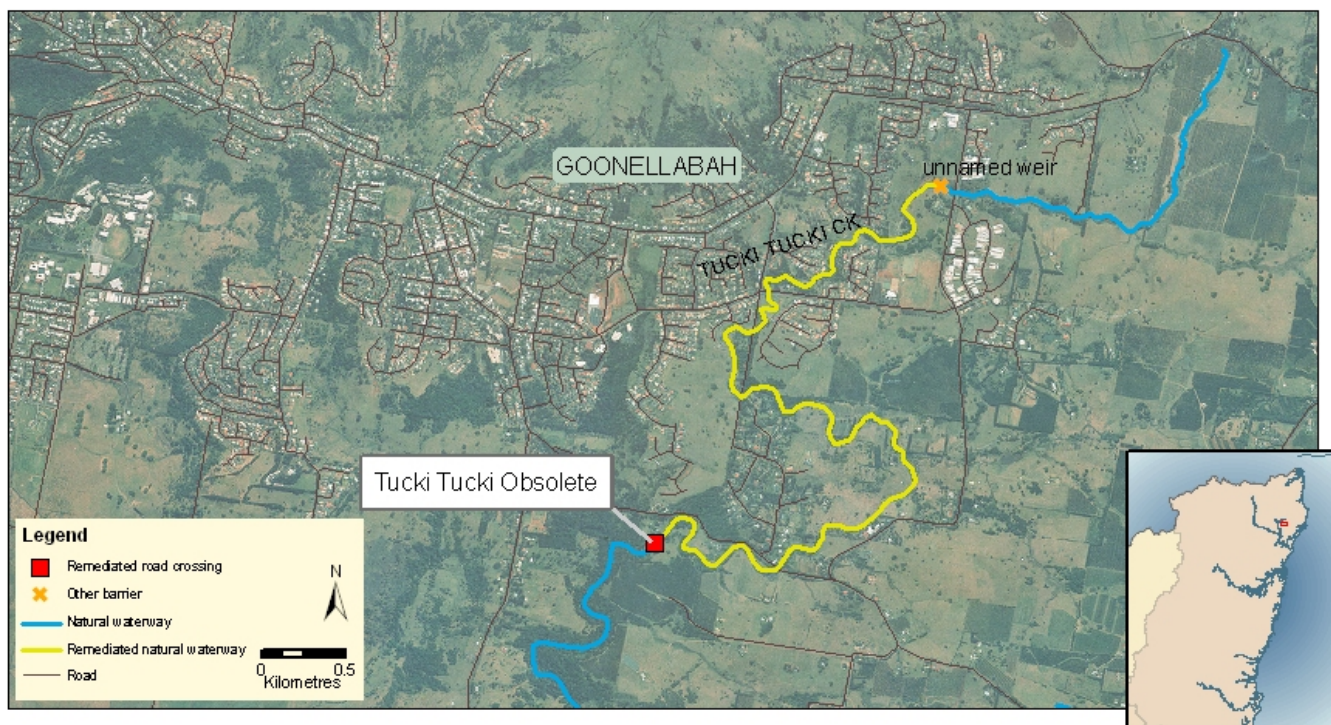


OBSOLETE CROSSING, TUCKI TUCKI CREEK

Unnamed Road, Richmond Catchment



Remediation Works

- Obsolete concrete / boulder landholder crossing
- Headloss barrier – 1200 mm
- No identified private use.
- Removal of concrete cap and regrading of existing site boulders proposed
- Works completed over single day in August 2009.

Remediation Benefits

- Improved access to 7 km.
- Revegetation of adjacent banks

Project Costs

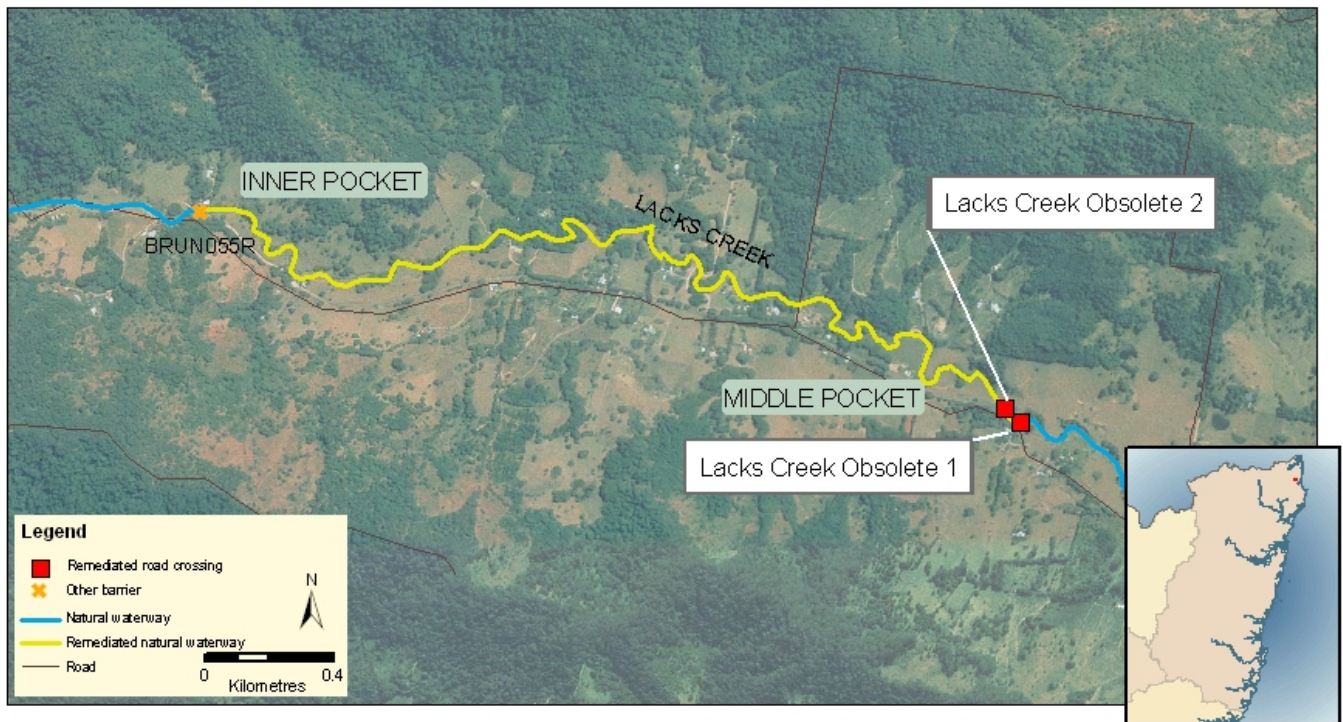
- Crossing Removal - \$2,265

Partners

- Private landholders, Lismore City Council, Northern Rivers CMA

OBSOLETE CROSSINGS (2), LACKS CREEK

Middle Pocket Road, Brunswick Catchment



Remediation Works

- Two obsolete crossings made redundant following historic road realignment
- Breaches of road abutments resulting in significant bank erosion due to flow redirection.
- No identified private use.
- Full removal of both crossings and regrading and revegetation of severely eroding banks proposed
- Works completed over single day in August 2009

Remediation Benefits

- Improved fish access to 4 km.
- Stabilisation of eroding banks

Project Costs

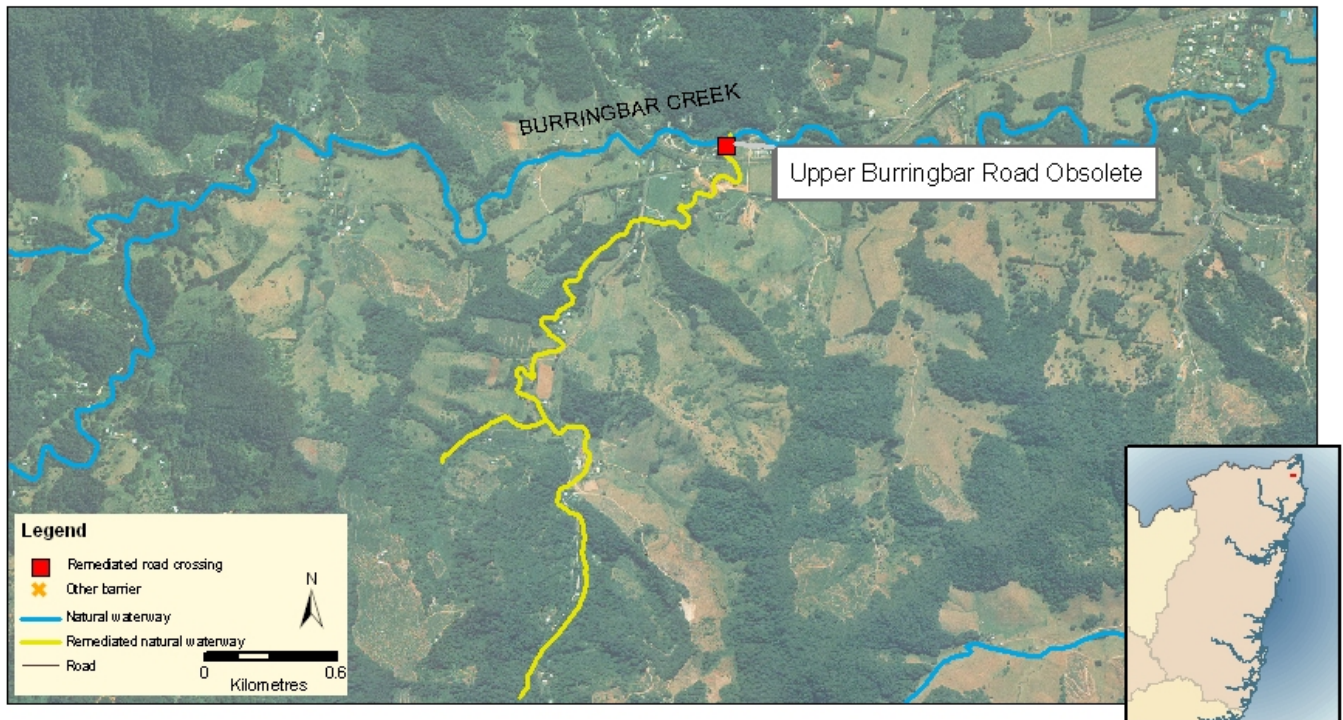
- Crossing Removal - \$2,464

Partners

- Private landholders, Byron Shire Council

OBSOLETE CROSSING, BURRINGBAR CREEK

Upper Burringbar Road, Tweed Catchment



Remediation Works

- Obsolete crossing made redundant by upstream bridge
- Headloss barrier – 750 mm
- No identified public or private use.
- Full removal of crossing proposed
- Works completed over single day in July 2007

Remediation Benefits

- Improved fish access to 6 km.

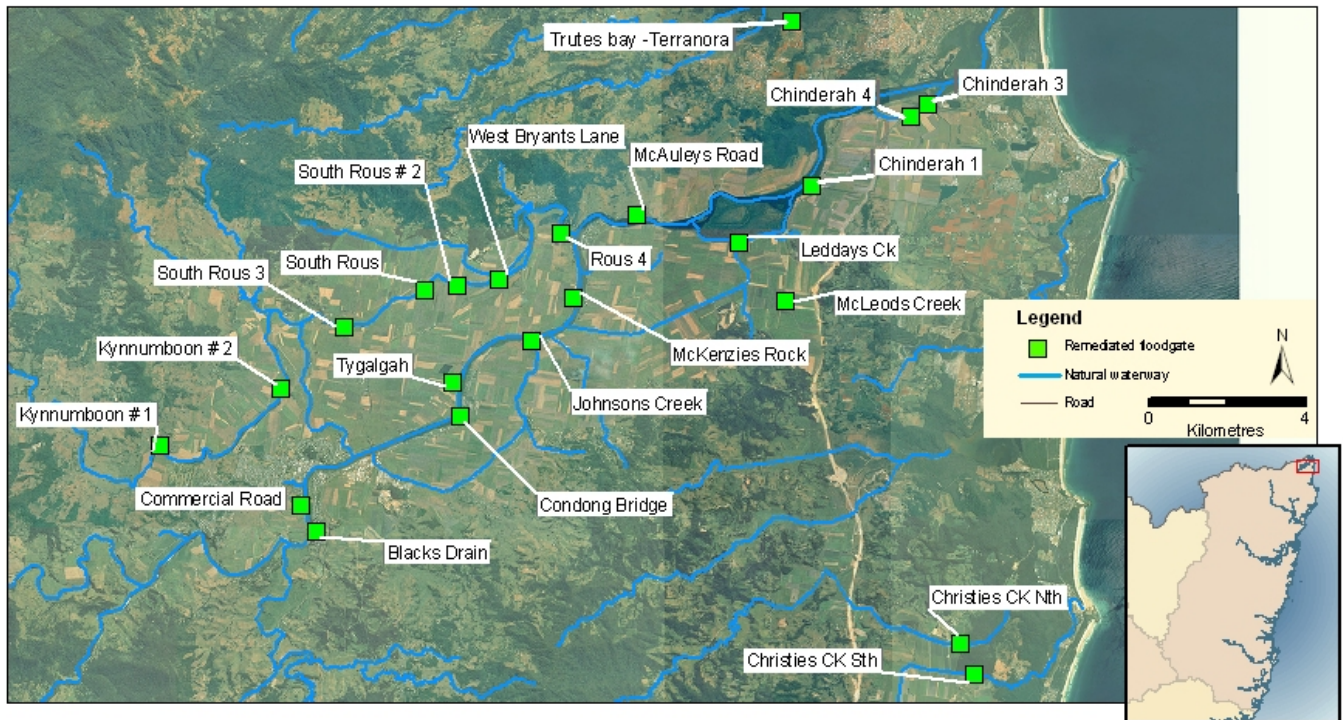
Project Costs

- Crossing Removal - \$1,780

Partners

- Tweed Shire Council, I&I NSW Aquatic Habitat Protection Unit

TWEED CATCHMENT FLOODGATES



Remediation Works

- 22 floodgates modified for enhanced fish passage (all with auto-tidal floodgates)
- Three sites were privately owned structures, the remainder being managed by Tweed Shire Council
- All sites were located in areas of high risk acid sulphate soils.

Remediation Benefits

- Improved access to 43 km of waterway.
- Enhanced management of acid sulphate soils and better water quality.
- 50 ha SEPP 14 wetland under improved management

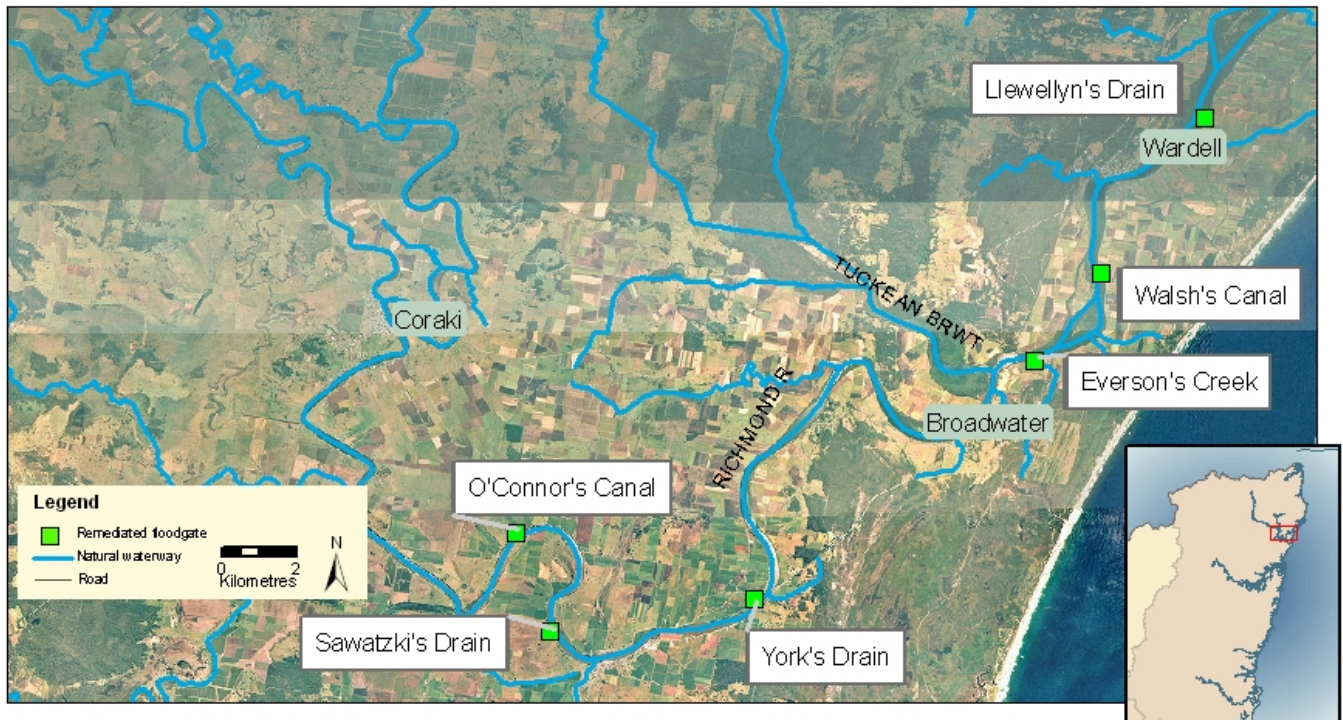
Project Costs

- Total project costs - \$761,457
- BBTF contribution for employment of project officer - \$30,000

Partners

- Tweed Shire Council (structure owners), landholders (owners of 3 structures and concurrence for all)

RICHMOND CATCHMENT FLOODGATES



Remediation Works

- 6 floodgates modified for enhanced fish passage (all with auto-tidal floodgates)
- All sites were located in areas of high risk acid sulphate soils.

Remediation Benefits

- Improved fish access to 8 km of waterway.
- Enhanced management of acid sulphate soils and improved water quality through increased tidal flushing

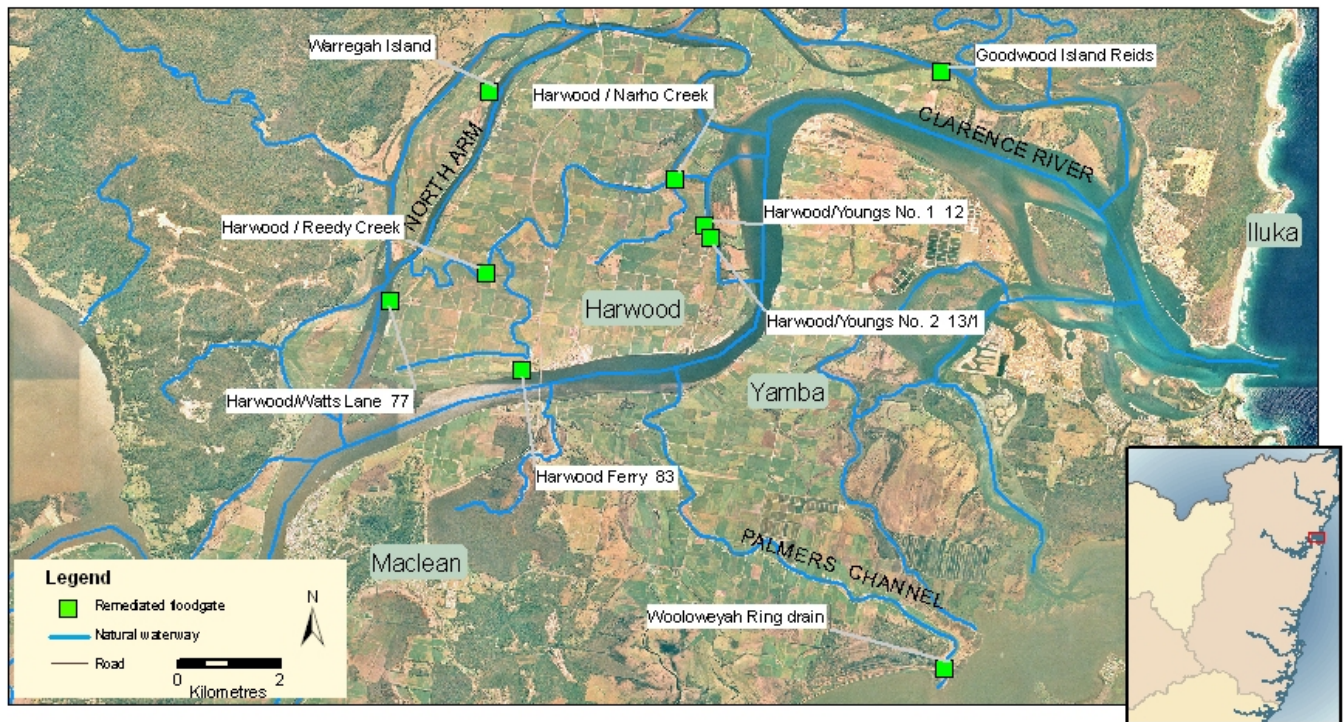
Project Costs

- Total project expenditure - \$121,000
- BBTF contribution for employment of project officer - \$30,000

Partners

- Richmond River County Council (structure owners), landholders (concurrence)

CLARENCE CATCHMENT FLOODGATES (MAP 1)



Remediation Works

- 16 floodgates modified for enhanced fish passage:
 - 11 auto-tidal floodgates
 - 3 winches with dropboards
 - 1 penstock
 - 1 lightweight gate
- All sites were located in areas of high risk acid sulphate soils.

Remediation Benefits

- Improved fish access to 50 km of waterway.
- Enhanced management of acid sulphate soils and improved water quality.
- Improved management of 442 ha of wetlands.

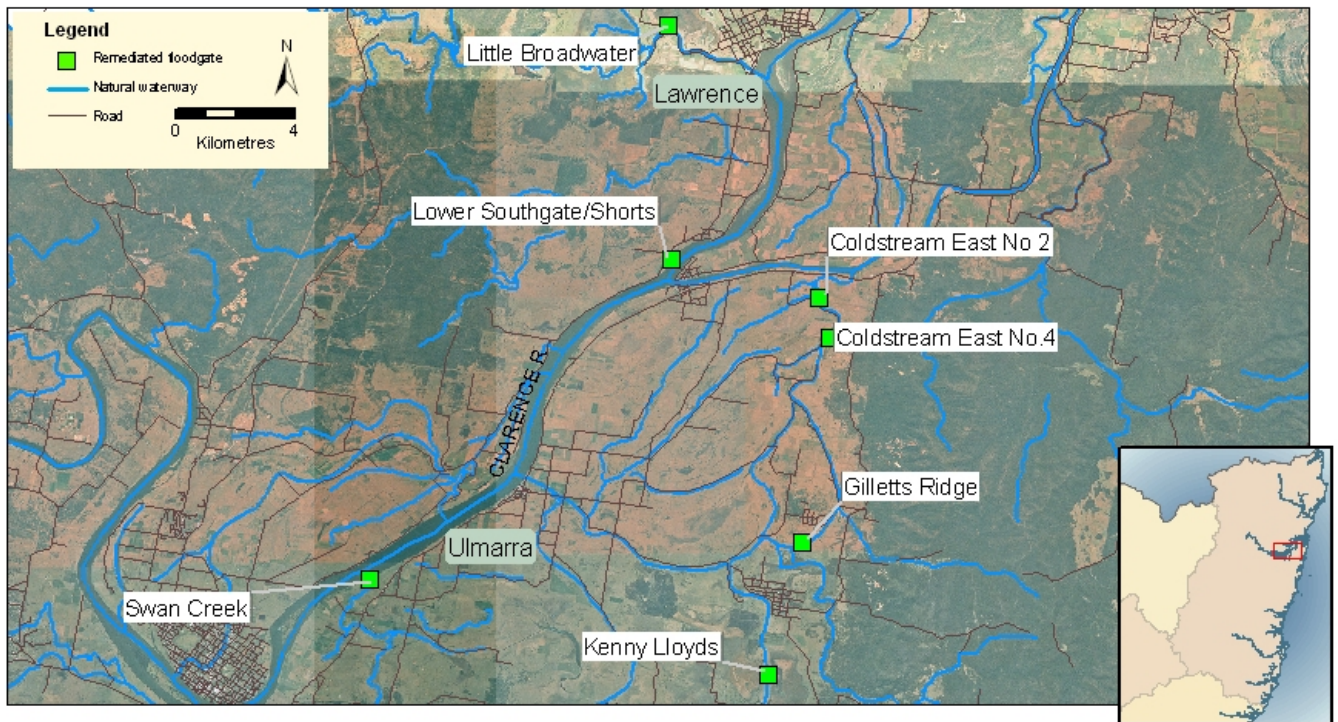
Project Costs

- Total project costs - \$900,297
- BBTF contribution for employment of project officer - \$40,000

Partners

- Clarence Valley Council (structure owners), landholders (concurrence)

CLARENCE CATCHMENT FLOODGATES (MAP 2)



GILLETTS RIDGE SITE - Before and after photos



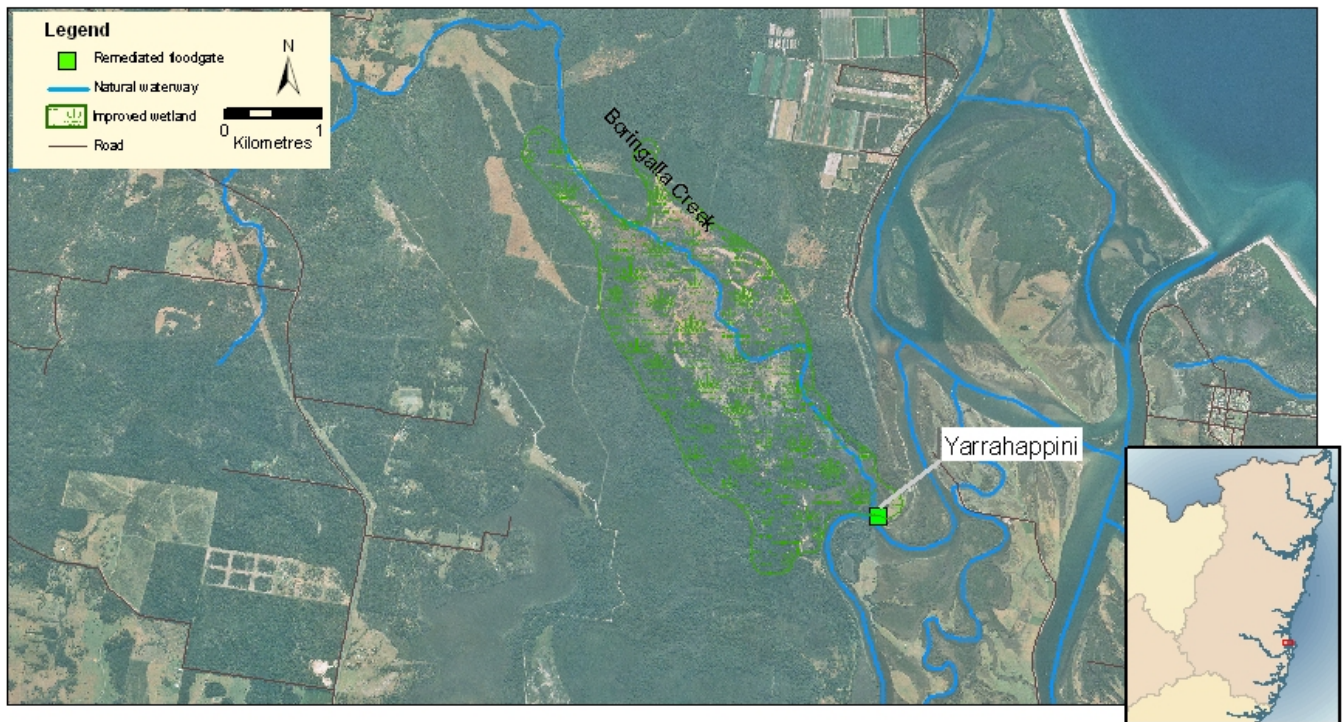
Drained wetland prior to rehabilitation



After the modified floodgates were installed (same day)

YARRAHAPINNI FLOODGATE, ANDERSONS INLET

Macleay Catchment



Remediation Works

- Five hinge-flapped floodgates restricted tidal exchange and fish passage to Yarrahappinni wetlands
- Insertion of auto-tidal floodgates proposed at two of five gates to actively manage site.
- The site is located in an identified high risk acid sulphate soil area

Remediation Benefits

- Improved access to 6 km of waterway.
- Enhanced management of acid sulphate soils resulting in improved wetland water quality through tidal flushing.
- Improved management of a 571 ha SEPP 14 wetland

Project Costs

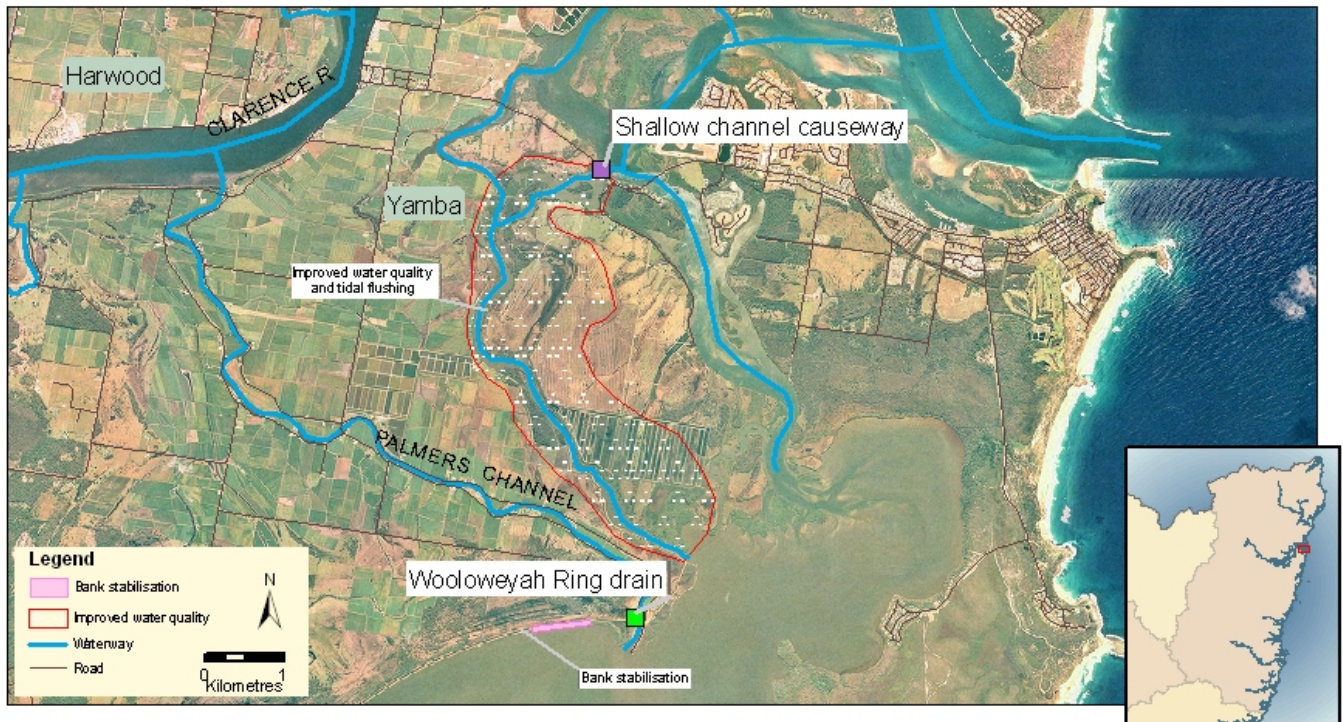
- Total project costs - \$561,880
- BBTF Contribution for floodgate modification \$11,880

Partners

- Macleay Shire Council (structure owners), DECCW (owners of wetland)

CLARENCE ESTUARY HABITAT SITE

Clarence Catchment



Remediation Works

- Shallow Channel causeway (120 m) acting as tidal exchange barrier resulting in poor water quality behind structure.
- Lake Wooloweyah – significant bank erosion due to vegetation removal and wind chop.
- Two-celled box culvert proposed for Shallow Channel, and rock-fillet bank protection at Lake Wooloweyah.
- Works completed during 2008.

Remediation Benefits

- Improved tidal flows to 7 km of estuary.
- Stabilised banks along 700 m of lake
- Enhanced water quality and seagrass health

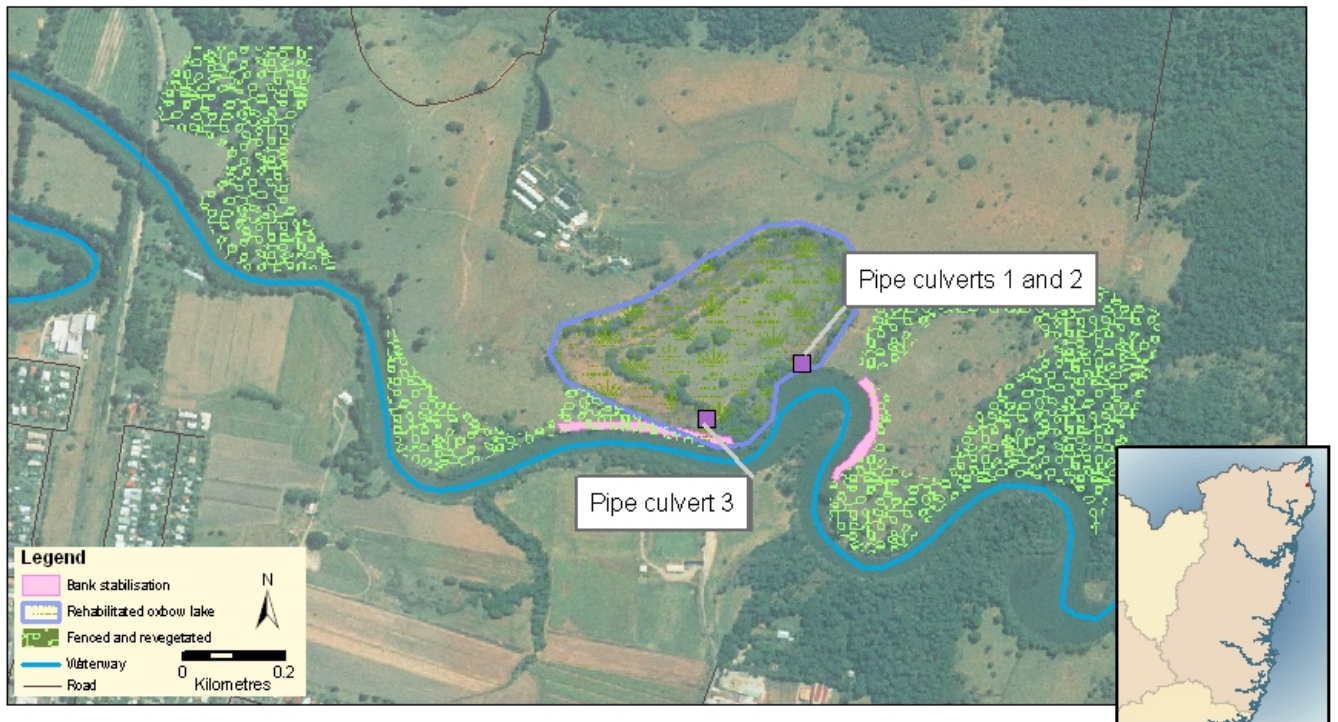
Project Costs

- Total expenditure - \$607,652
- In-kind funding - \$240,988

Partners

- Clarence Valley Council, Northern Rivers CMA, WetlandCare Australia, DECCW

VALLANCES ROAD HABITAT SITE, BRUNSWICK RIVER Brunswick Catchment



Remediation Works

- Council proposed STP site on former cattle grazing land
- Site impacts included severely eroding banks due to past vegetation clearance, and restriction of tidal exchange with two oxbow lakes.
- Proposed works included insertion of rock-fillets to stabilise estuarine banks, construction of 3 new causeways permitting tidal flow to oxbow lakes, and fencing and revegetation of riparian zone.
- Works completed between 2006 - 2009

Remediation Benefits

- Reinstatement of tidal flow to two oxbow lakes
- Stabilised 300 m of banks using rock fillets
- Riparian fencing (4.5 km), revegetation (35,000 plants), and weed control

Project Costs

- Total expenditure - \$620,000

Partners

- Byron Shire Council, NSW Recreational Fishing Trust, AbiGroup