Case Study – Kosciusko National Park
Bridge Replacement

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Key Considerations

- Minimal disturbance to the highly sensitive environment
- Limited equipment access
- Very remote location being 2 hours by truck, from Cooma
- Upgrade from 10 tonne to SM1600 load rating, AS5100 standard
- Short construction time onsite
- Designed for 100 year life with minimal maintenance
- Replacing a 3 span timber bridge with a suitably designed 12m skew bridge
Tantangara Bridge- Kosciusko National Park

Proposed Site on the Murrumbidgee
Tantangara Bridge- Kosciusko National Park

ABUTMENT 2 BRIDGE PLAN
Scale 1:200

ELEVATION DEVELOPED
Scale 1:100
Tantangara Bridge- Kosciusko National Park

Alternate Methodology

Off Site Pre-Fabricated Formwork & Reinforcement Modules - “Place & Pour”
Tantangara Bridge- Kosciusko National Park

Two Complete Abutment & Wing wall Assemblies
Tantangara Bridge- Kosciusko National Park

2 Abutment and wing wall sets installed and concreted in 7 hours
Decks installed and concreted in 5 hours.
- Self Supporting Formwork and Reinforcement modules, require no propping or scaffold, thereby eliminating intrusion into the waterway.
- Sacrificial forms prevent concrete additives, some toxic, from leeching into the waterway and environment.
- World class, natural fish habitat, which was virtually un-touched.
- Supported by DPI- Fisheries for its low environmental impact.
“InQuik is a very quick and efficient way to replace bridges, as long as you do the survey and site preparation work correctly. Our Survey and installers were excellent and the bridge has reached our expectations.” – Rod Peel, National Parks Road Supervisor
How it works:
Abutment/wing wall

Abutment reinforcing:

45° wing walls:

90° wing walls:
How it works:
Deck units
Kosciusko National Park Bridge Replacement

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