Kenilworth River Park Bank Stabilisation Project











Agenda

- Welcome
 Dan Spiller, Seqwater
- Project overview
 John Howlie, Seqwater
- Our partners
 Mary River Catchment Coordinating Committee
 Sunshine Coast Regional Council
- Questions



Welcome

Dan Spiller
General Manager Asset Portfolio
Development and Delivery



Erosion Repair at Kenilworth River Park (Charles Street)

Tim Odgers and John Howlie



Overview

- Why conduct works at Kenilworth River Park?
- What are the underlying issues that have led to the current situation?
- Who is involved?
- How will this be addressed?
- What are the timeframes?



Purpose

- An important component of the Kenilworth's town water supply system
- An important nesting site for the iconic, endemic and threatened Mary River Turtle
- An important community asset with direct access to the river
- A significant source of sediment into the Mary River

Underlying challenges



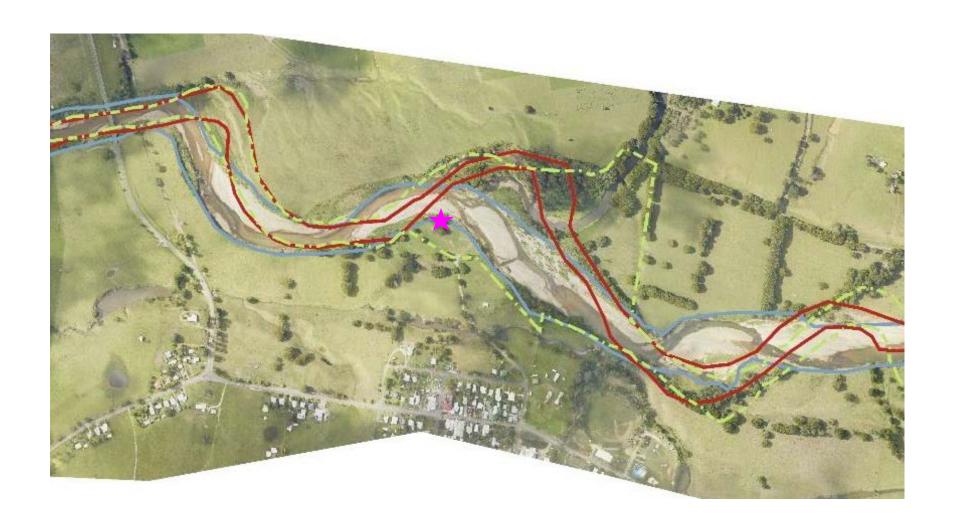
- Historic clearing of riparian vegetation
- Historic and more recent gravel extraction

These activities have altered the stability of the river leading to:

- a wider and straighter river
- faster and consequently more powerful flows

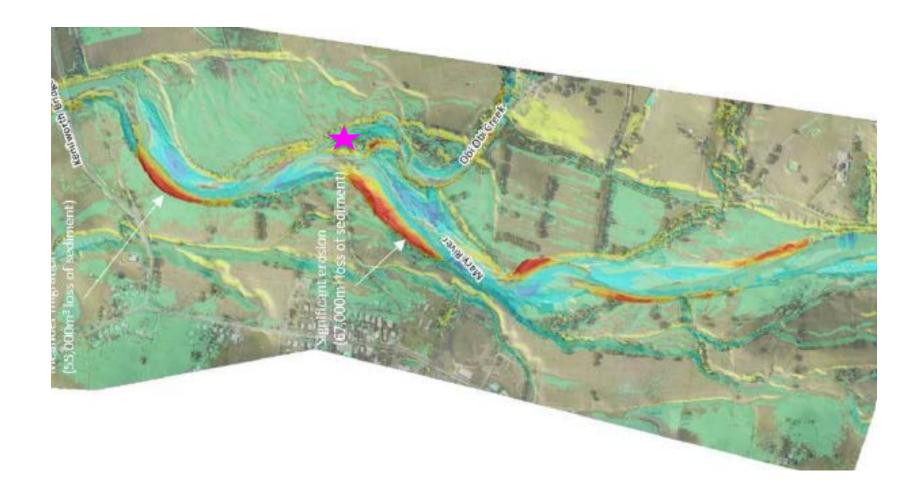
What are the processes occurring?

River widening and straightening



What are the processes occurring?

 This has led to a situation where excess power is exerted on the stream banks and meanders are starting to reform



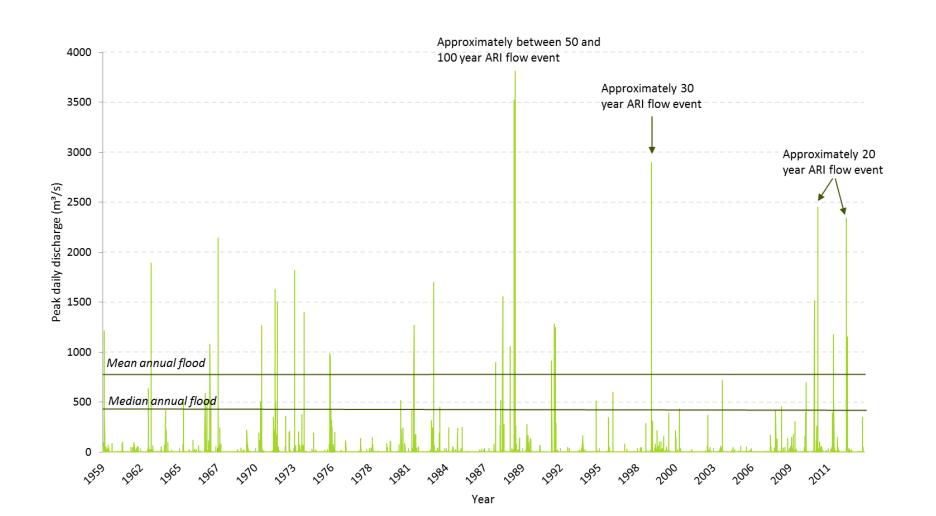
Changes over time





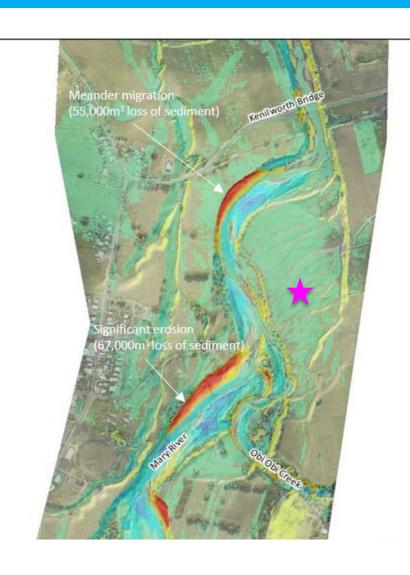
Issues with erosion





Changes between 2009 - 2013





Tropical cyclone Marcia





Loss of stream bank in 2015 after Cyclone Marcia

Loss of sand bank filtration





Aerial





1 May 2015

Aerial





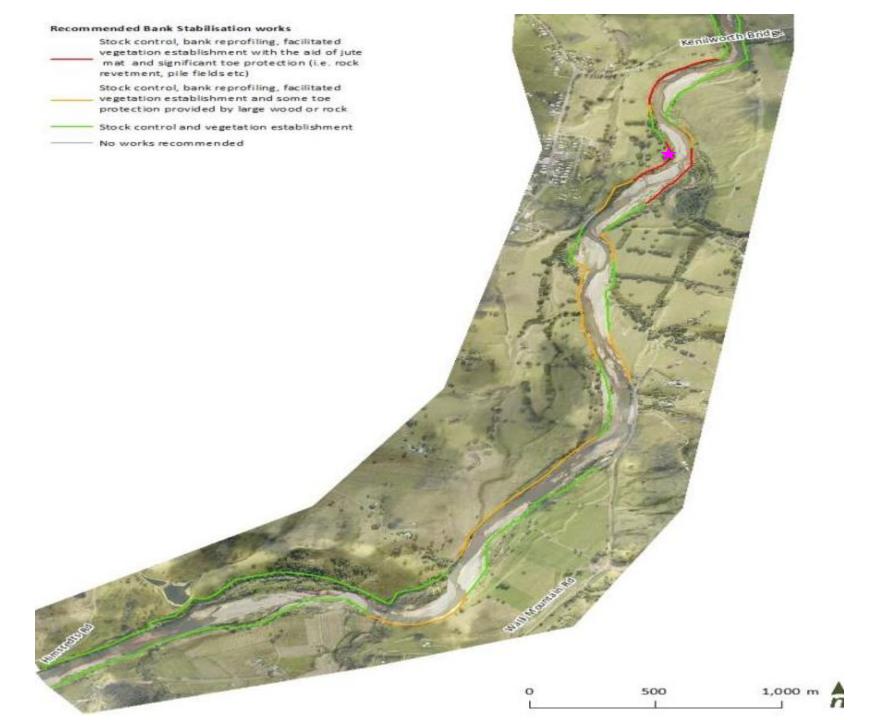
Solution





The partnership

- Partnership between Seqwater, Mary River Catchment Coordinating Committee, Burnett Mary Regional Group and Sunshine Coast Council
- An extensive study with recommendations and designs has been undertaken
- The last heavy rain event led to extensive erosion at Kenilworth River Park
- The partners are driven by risk to Kenilworth's water quality and supply, environment and parkland



Roles

Project Partners

- Seqwater Water supply infrastructure management, seed and core project funding, project management
- MRCCC Local NRM group, project support, stakeholder engagement, initial study and report management as well as environmental issue management
- BMRG flood relief funding and support
- SCC Council approvals, parkland interface, community engagement, revegetation management and maintenance

Consultants

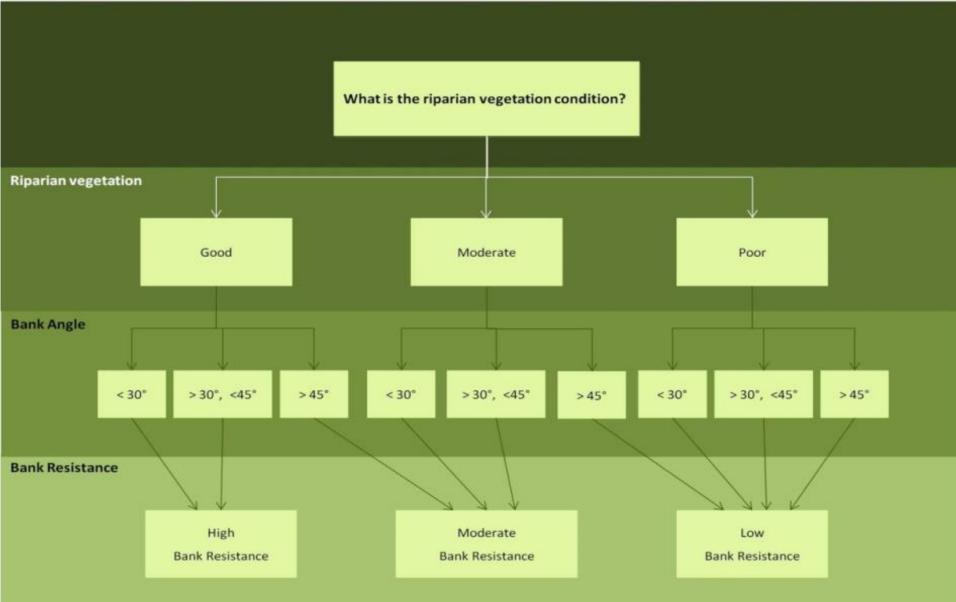
Alluvium – Geomorphic Engineers, research and project design

Contractor

GWT Earthmoving

Bank stability





Proposed design



Design examples



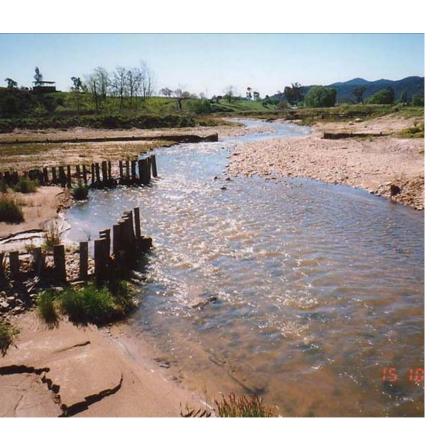


Pile field examples



Pile field examples





Newly installed pile field

Established pile field

Environmental considerations

Mary River Turtle

- The design has been influenced so as not to impact on potential nesting areas for the MRT. Limited rock revetment at the toe to provide access to the sandy banks, use of pile fields as the preferred option for stabilisation of the toe of bank.
- The Mary River Turtle nesting period is from October to January. Nesting is triggered by storm rains in October.
- Rainbow Bee Eaters
 - Were actively using the bank prior to the last event, they finish nesting in January and start again in August.
- Riparian restoration to the bank is critical to the success of this project

Anticipated delivery

Activity	Timeframe
Design	Completed
Contract	Contractor engaged
Site establishment	May 2015
Civil works	June 2015
Park restoration	July-August 2015
Planting	August 2015

Partners

Mary River Catchment Coordinating Committee

Ian Mackay



Partners

Sunshine Coast Council

Cr Greg Rogerson



Thank you

- Questions
- For more information:

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