

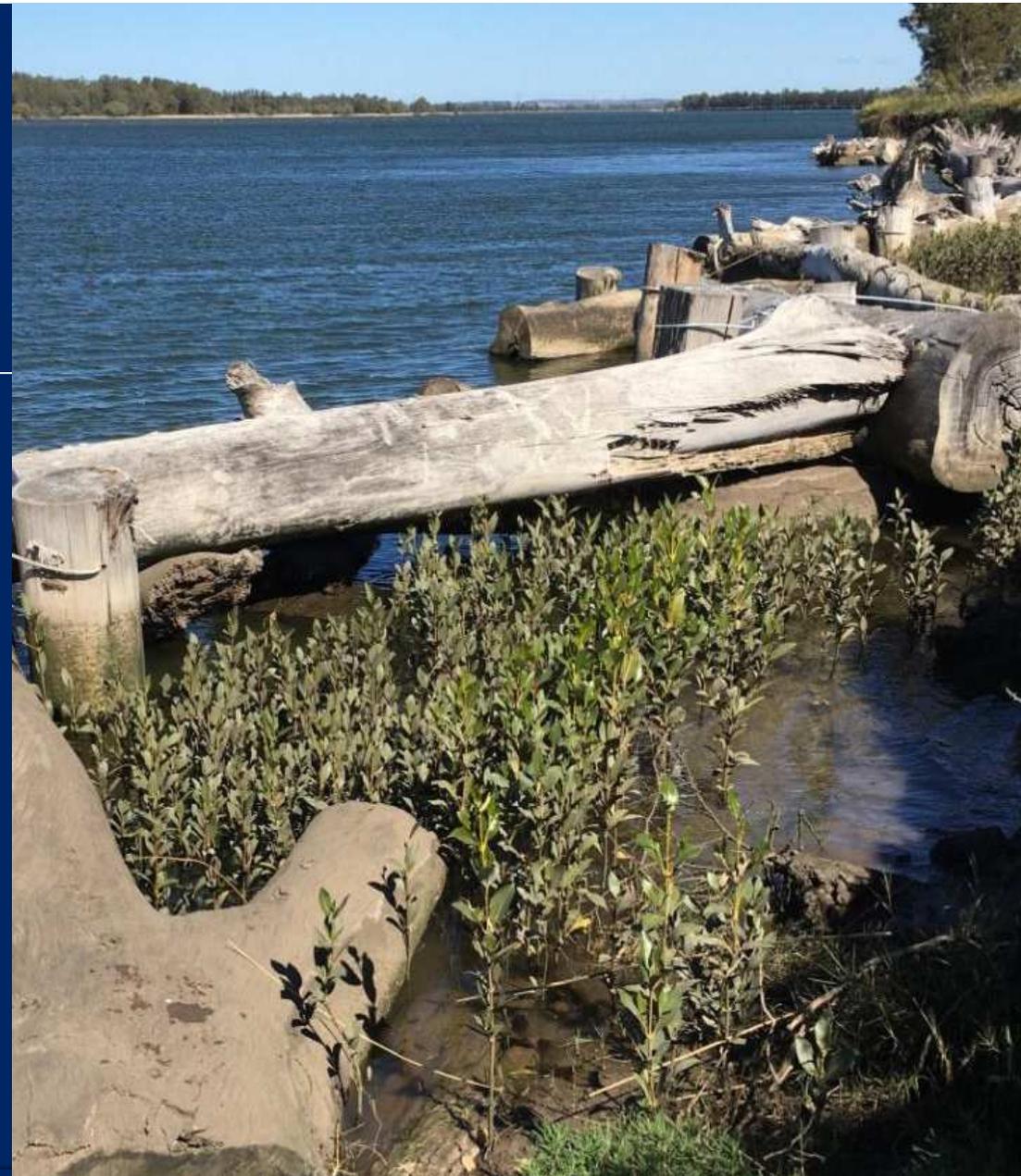


Moving on from rock

A more natural approach to bank stability using logs and revegetation in the Hunter River estuary

Jenny Weingott, Hunter Local Land Services

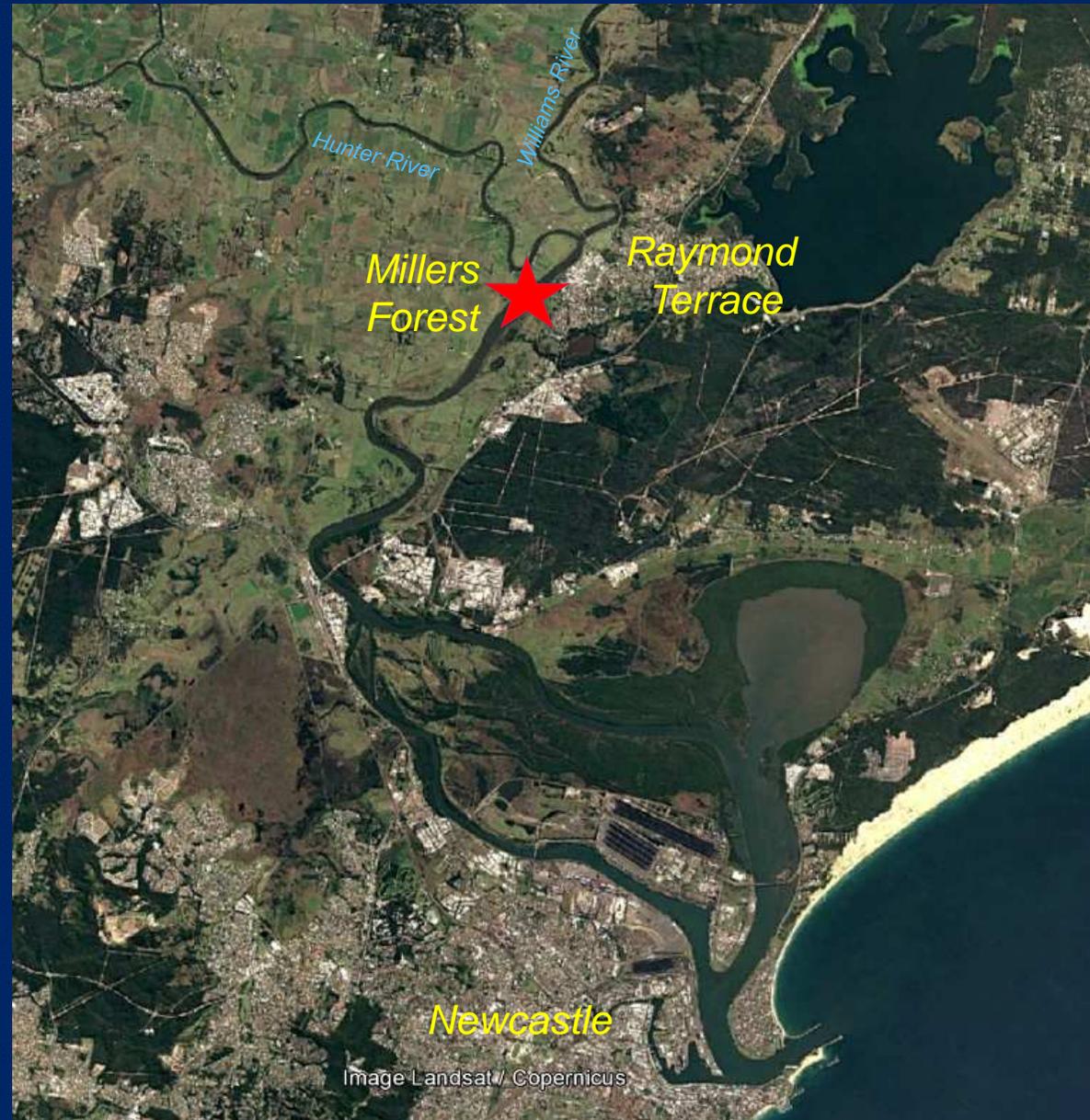
Guy Lampert & Dan Love, Soil Conservation Service



Hunter River Estuary



30% river banks are showing signs of instability & bank retreat (SCS, 2018)



Hunter River at Millers Forest



Project Goals:

- Manage ongoing erosion
- Promote vegetation and aquatic habitat
- Develop new method
- Compare cost of works with more 'traditional' methods

Rock Revetment

- Traditional method - stops erosion
- 76km (lineal) of rock revetment in Hunter estuary
- High cost \$1000-2000/m
- Unintended impacts to natural environment
- Use as a last resort to protect high value assets



Rock Fillets



Ash Island rock fillets (built 2011, photo taken 2012)

- Rock walls offset from river bank
- Successfully recruit mangroves, saltmarsh and reeds
- Currently three locations in Hunter, see Taylor (2017)
- New & improved North Coast rock fillets with root balls, see Schmidt (2017)

Trialling new methods using timber and revegetation

- **Watch our 5 min video case study**
On YouTube at:
https://youtu.be/c_UcmMb6mJU
- Methodology based on site characteristics
- Revegetation → long term solution



What did we learn?

- Timber can provide good alternative to rock
- Developed a new method of using timber in estuaries
- Lower cost (\$600-1000 per lineal metre)
- Planning - assessment and approvals are time consuming





Completed works
October 2019

For more info....

Jenny Weingott - HLLS (Project manager)

(02) 49384938 Jenny.Weingott@lls.nsw.gov.au

Guy Lampert – SCS (Gemorph & design)

0404390849 Guy.Lampert@scs.nsw.gov.au

Dan Love – SCS (Works manager)

Dan.Love@scs.nsw.gov.au