

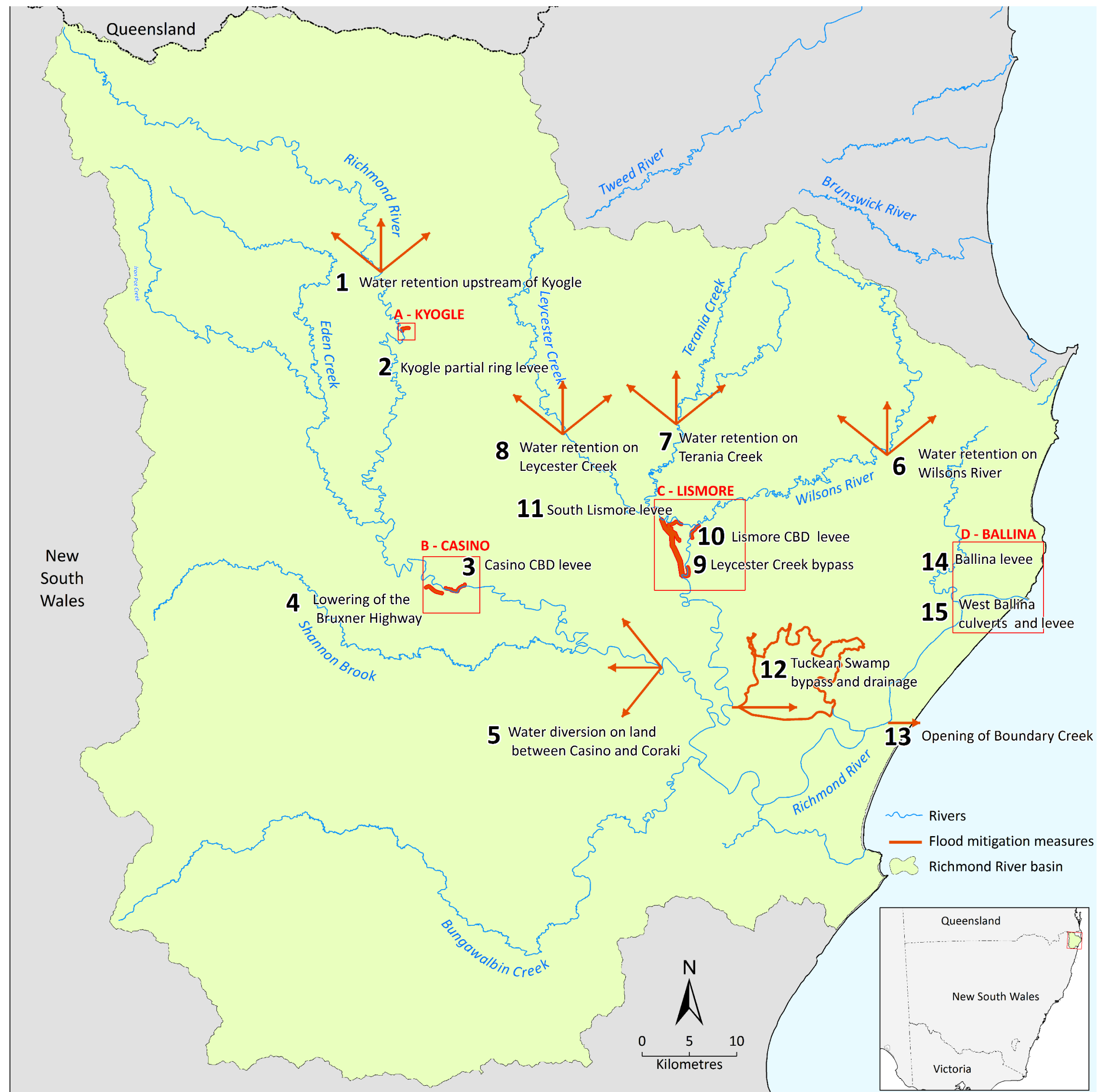
# Potential flood mitigation measures to be explored as part of the scenario testing phase of NRRI

Jai Vaze, Cherry Mateo, Chi Nguyen, Julien Lerat, Linda Merrin

ENVIRONMENT RESEARCH UNIT, CSIRO  
www.csiro.au

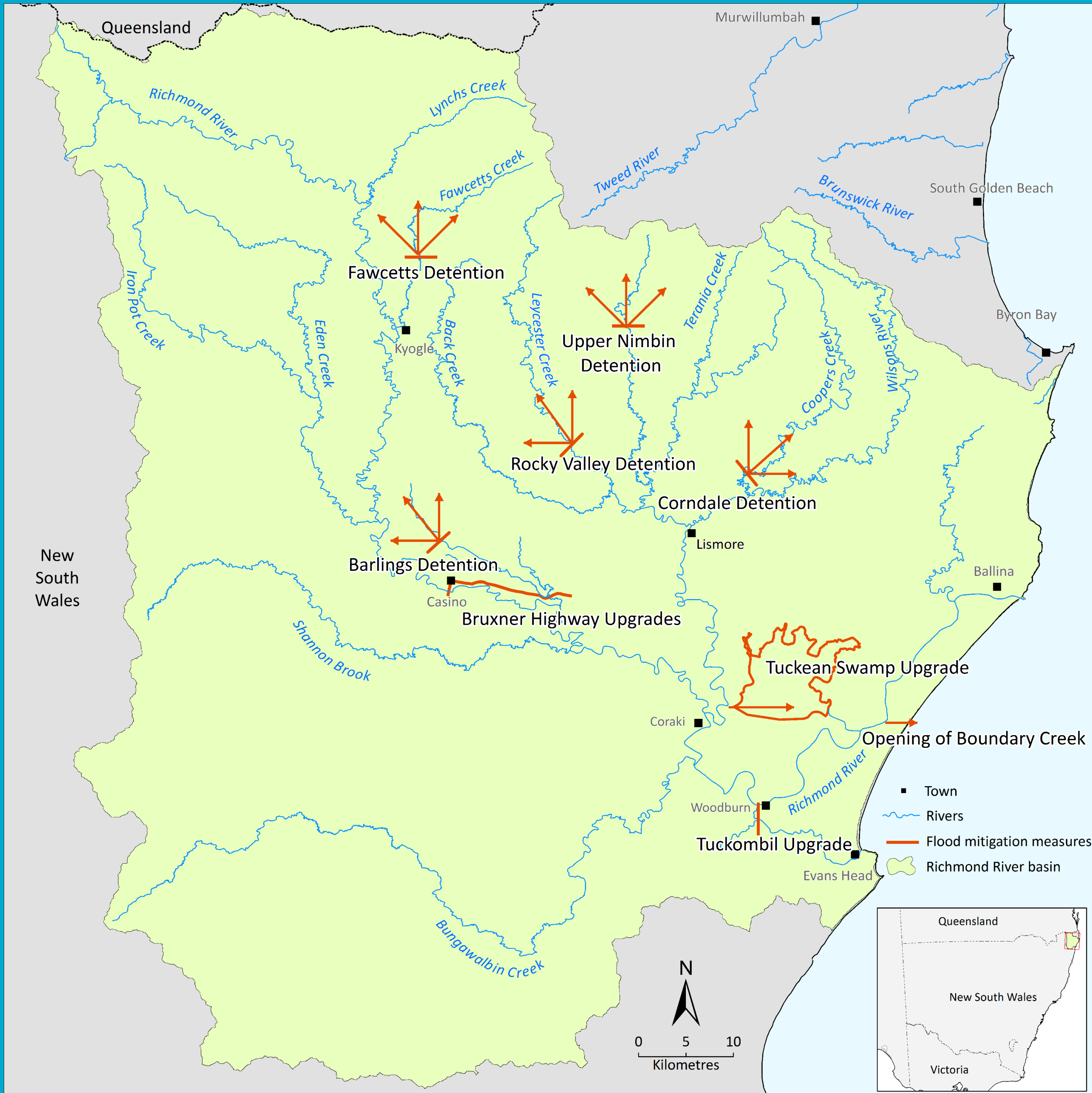


Potential flood mitigation measures



ID	Potential flood mitigation measures
1	Water retention or diversion on land upstream of Kyogle (location to be finalised)
2	Kyogle partial ring levee (implemented)
3	Casino CBD levee
4	Lowering of the Bruxner Highway
5	Water diversion on land between Casino and Coraki (location to be finalised)
6	Water retention in the Wilsons catchment upstream of Lismore (location to be finalised)
7	Water retention in the Terania Creek catchments upstream of Lismore (localisation to be finalised)
8	Water retention in the Leycester Creek catchment upstream of Lismore (location to be finalised)
9	Leycester Creek bypass
10	Lismore CBD levee upgrade
11	South Lismore levee upgrade
12	Tuckean Swamp bypass and drainage, and Baggotville barrage upgrade
13	Opening of Boundary Creek to the Pacific Ocean
14	Ballina levee (location to be finalised)
15	West Ballina culverts and levee (location to be finalised)

BUNDLE 1 MITIGATION MEASURES



- Fawcetts Detention
- Barlings Detention
- Rocky Valley Detention
- Upper Nimbin Detention
- Corndale Detention
- Tuckean Swamp Upgrade
- Opening of Boundary Creek
- Bruxner Highway Upgrades
- Tuckombil Upgrade

BUNDLE 2 MITIGATION MEASURES



- Fawcetts Detention
- Barlings Detention
- Rocky Valley Detention
- Upper Nimbin Detention
- Corndale Detention
- Tuckean Swamp Upgrade
- Opening of Boundary Creek
- Bruxner Highway Upgrades
- Tuckombil Upgrade
- Collins Valley Detention
- Bentley Detention
- Dunoon Detention
- Booyong Detention

FOR FURTHER INFORMATION



Report



Video

HYDRODYNAMIC MODEL DATA SOURCES

**Report:** Available at the National Emergency Management Agency (NEMA) website.  
**Citation -** Vaze J, Mateo CM, Nguyen C, Marvanek S, Ticehurst C, Montazeri M, Teng J, Wang B, Austin J, Kim S, Lerat J, Yang A, Merrin L and Chilcott C (2025) Hydrodynamic model development, implementation and validation for the Richmond River catchment in the Northern Rivers region, NSW, Australia. CSIRO, Australia.  
**LIDAR DEM:** Available publicly at the Geoscience Australia website.  
**Bathymetry data:** Available publicly at the Geoscience Australia website.