

ELAMBRA ESTATE SUBDIVISION

Kiama Council is the proponent of this 230 lot subdivision in the verdant coastal hills of Gerringong.

Council determined that conventional stormwater management would not enable them to meet their own water quality and quantity objectives. They asked STORM to develop a water sensitive stormwater treatment train.

The concept design needed to address significant constraints including areas of slope instability (no infiltration) and steep slopes (inappropriate for pond treatments).

The concept design developed is a treatment train comprising:

- ☛ roof water tanks plumbed into each dwelling (to minimise runoff peak flows and volumes),



- ☛ sediment sumps at inlet pits (source controls for roadways),
- ☛ one-way crossfall roads where possible leading to riparian filter buffers
- ☛ grassed swale drains (on flatter areas),
- ☛ gross pollutant trap / wet sediment basin / sand filter (all designed to save space on steep sloping land), and
- ☛ riparian revegetation is a feature of the design.

Modelling demonstrated that the water sensitive design met water quality and quantity objectives.

Council has adopted the concept design and is now moving to detailed design.



SYDNEY

Suite 3, 6 West Street
PYMBLE NSW 2073
T +61(0)2 9499 4333
F +61(0)2 9499 4311

ILLAWARRA

34 Alexander Ave
KIAMA DOWNS NSW 2533
T +61(0)2 4237 6770
F +61(0)2 9499 4311

EUROBODALLA

Unit 16, Capital Coast Centre,
Church Street,
MORUYA NSW 2537
T +61(0)2 4474 5573
F +61(0)2 9499 4311

www.stormconsulting.com.au