

RICK DENNIS



SPECIALIST FIELDS

Hydrologic Analysis
Hydraulic Analysis
Stormwater Modelling
Flood Management
Urban Drainage
River Engineering
GIS Analysis

EXPERIENCE

12 Years

EDUCATION

BEng (Civil),
Queensland
University of
Technology 2007

PROFESSIONAL MEMBERSHIPS

RPEQ

SOFTWARE PROFICIENCY

12D
AutoCAD
DELFT3D
HEC-RAS
MapInfo
MIKE Suite
MUSIC
QGIS
SOBEK
TUFLOW
URBS
WBNM
XPRAFTS
XPSWMM

CAREER OVERVIEW

Civil engineer specialist in the fields of hydrology, hydraulics and water quality. Particular expertise in flood impact assessments and stormwater management plans for development applications, achieving outcomes that maximise amenity, resilience and development yield while also satisfying flood risk, safety and drainage constraints.

SIGNIFICANT PROJECTS

Beattie Road, Coomera (2017).

Local and regional flood impact assessment, turnover analysis and stormwater management plan to develop 59 ha of predominately low-lying sugar cane crops adjacent to the Coomera River into residential, mixed-use and open spaces.

Silk, Woolloongabba (2016).

Overland flow & stormwater management plan for the proposed Silk development including 3 residential towers with lower level commercial uses. Constrained by underlying trunk networks and overland flooding, design of a suitable undercroft to provide acceptable outcomes.

Ormeau Ridge Estate (2016).

Local and regional flood impact assessment of the Ormeau Ridge development. Using natural terrain features and required road accesses, flood mitigation solutions were designed optimising the developable area above the defined flood level whilst limiting the amount of earthworks.

Southern Redbank Plains Masterplan (2015).

Development of the flood management strategy for the Southern Redbank Plains masterplan, located in the upper reaches of Six Mile Creek, Ipswich. The strategy has had to evolve continuously over a number of years to reflect ongoing variations associated with staging a 400 ha site.

Cessnock Floodplain Risk Management Study & Plan (2015).

Cessnock has historically been heavily affected by flood inundation and hence it was sort to economically alleviate property impacts. Mitigation options were design to provide cost effective recommendations to reduce property flooding.

Elizabeth, Blackmore and Darwin River Catchments Flood Study, (2015).

Establishment of regional flooding constraints of the catchment (115,000 ha) for land use planning. Conducted flood frequency analyses, revision of rating curves, calibrated hydrology, hydraulic modelling and flood mapping for design and extreme events, including sea level rise sensitivity testing.