



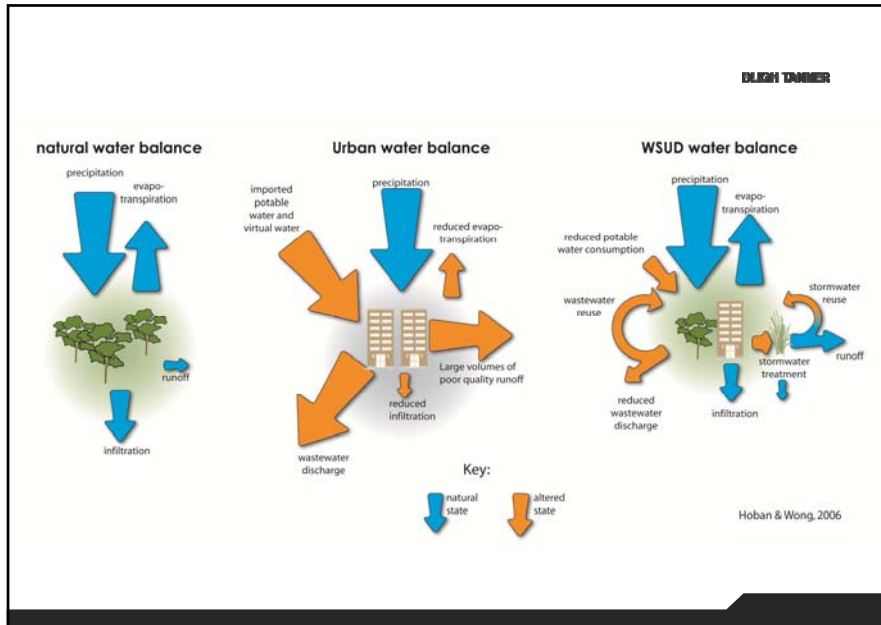
How well do we really understand urban stormwater issues?

Alan Hoban



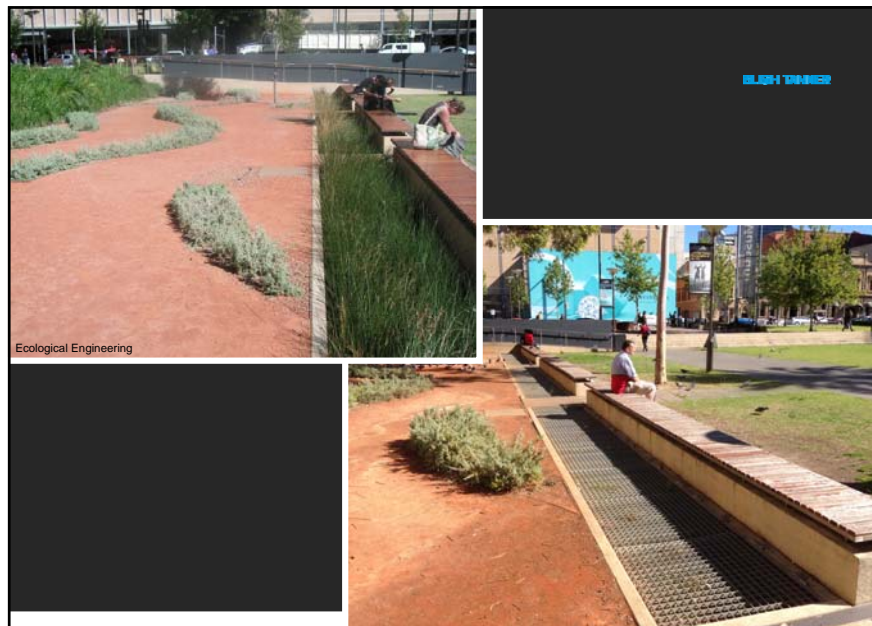
How well do I really understand urban stormwater issues?

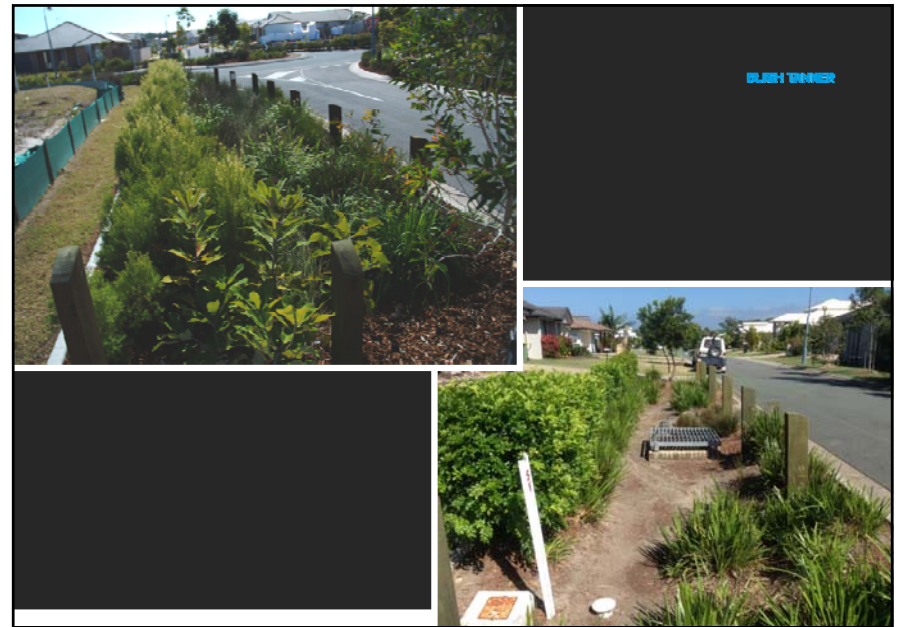
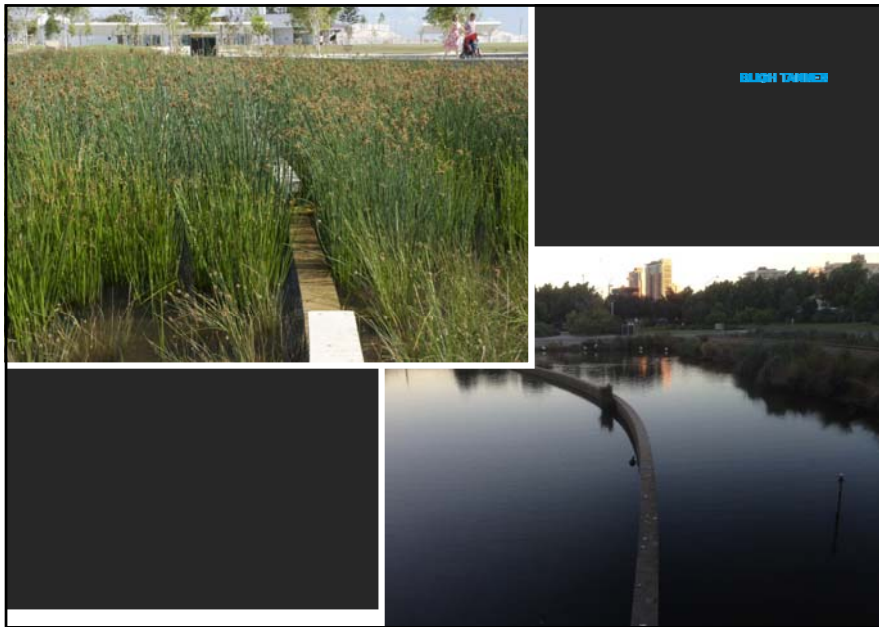
Alan Hoban

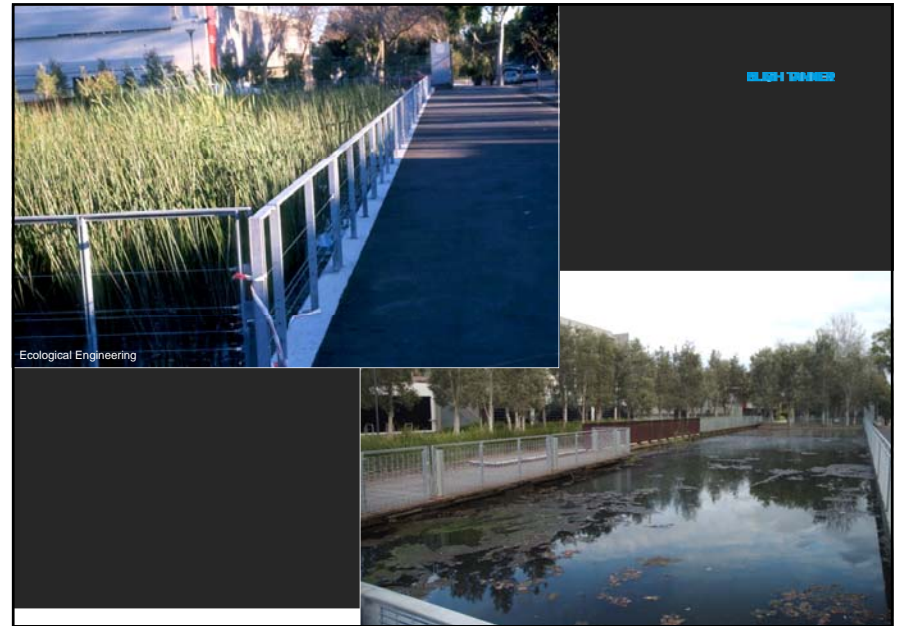


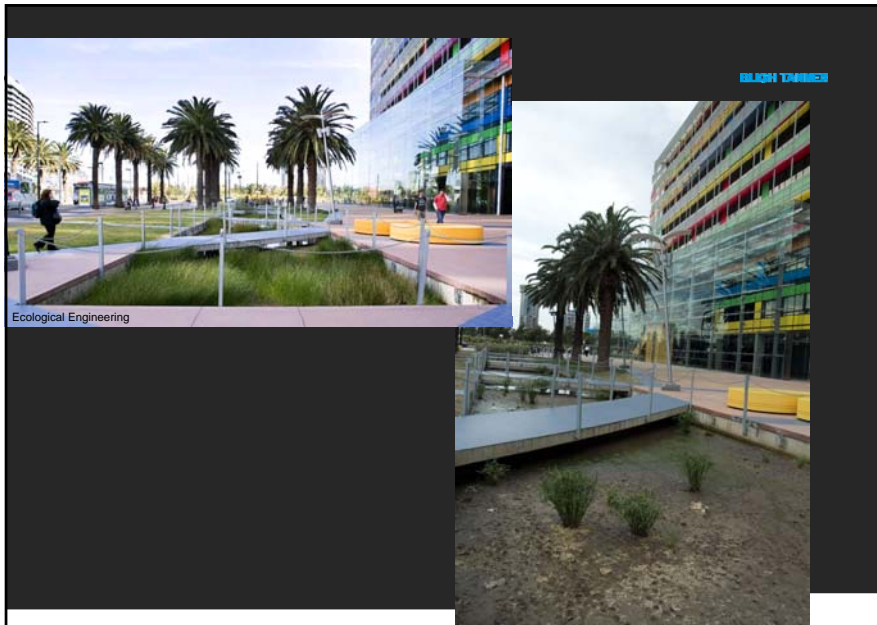
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Hopes / reality

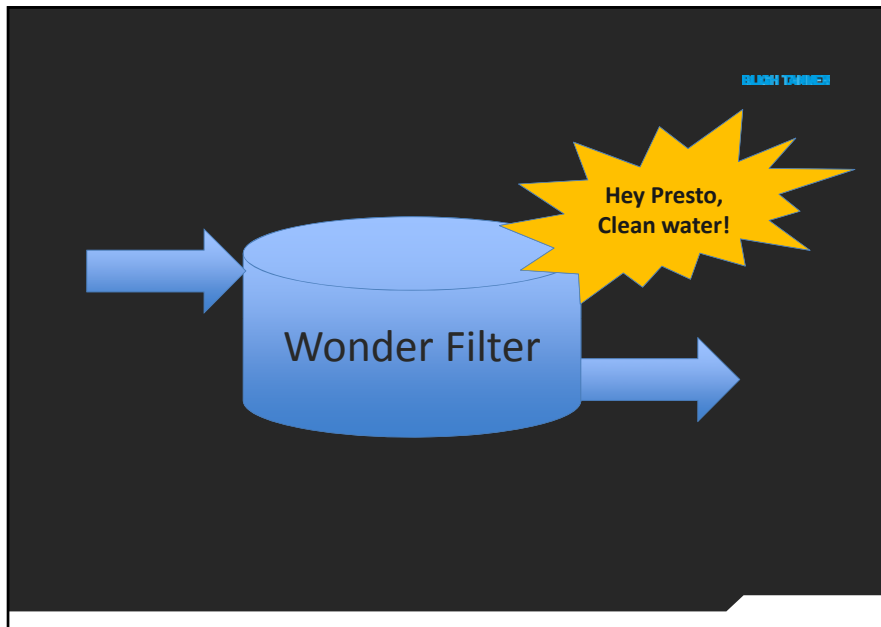


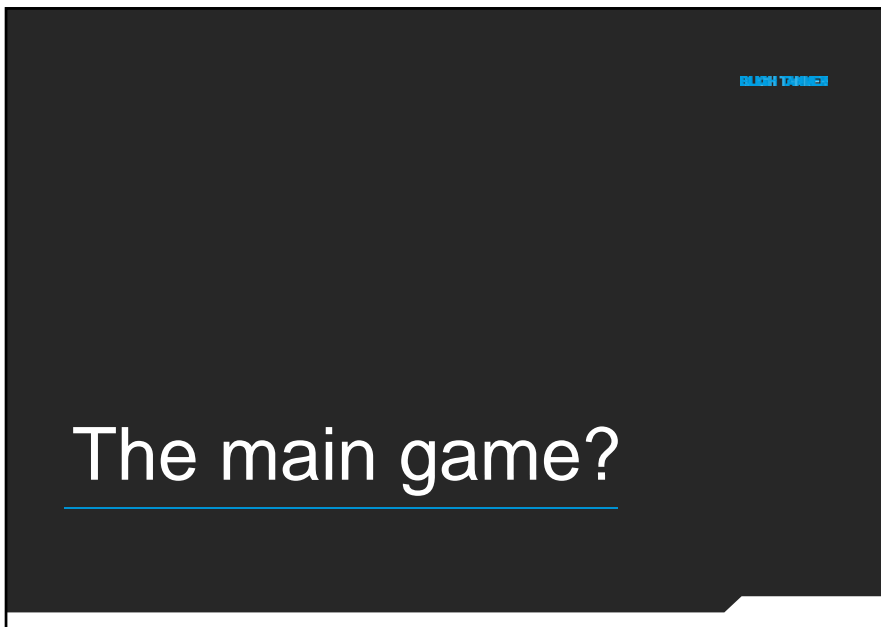


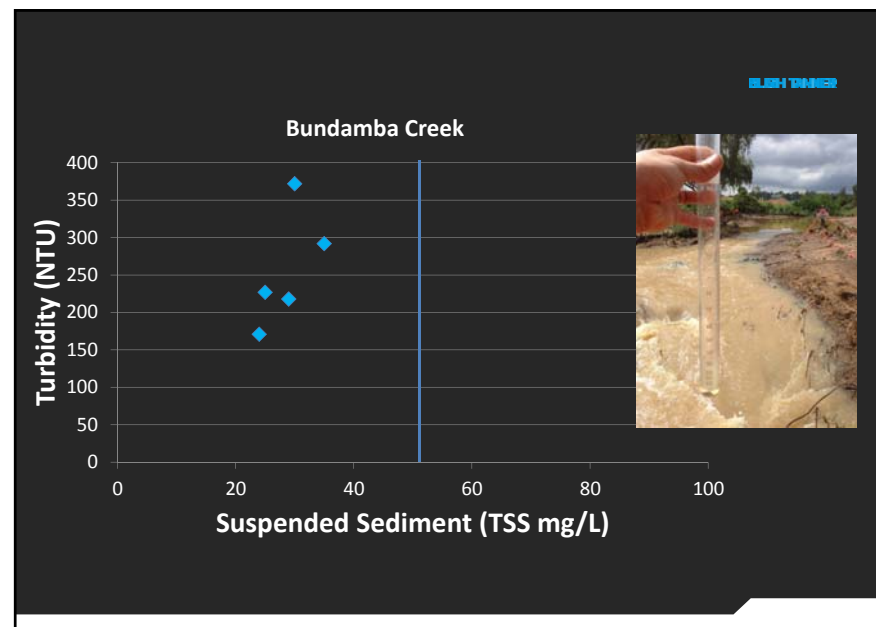


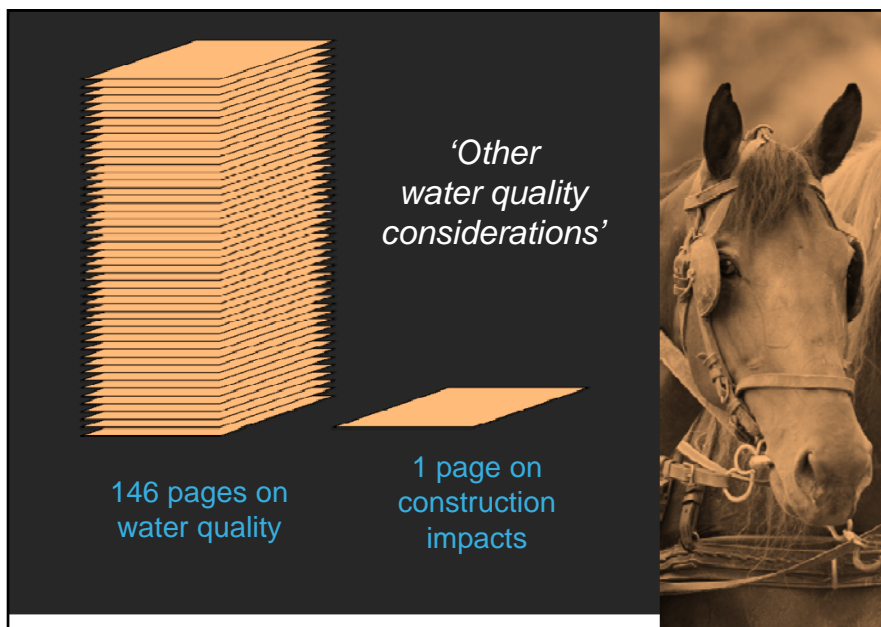


Why are the plants dying in so many 'well designed' wetlands and bioretention systems across Australia?









'Other water quality considerations'

146 pages on water quality

1 page on construction impacts

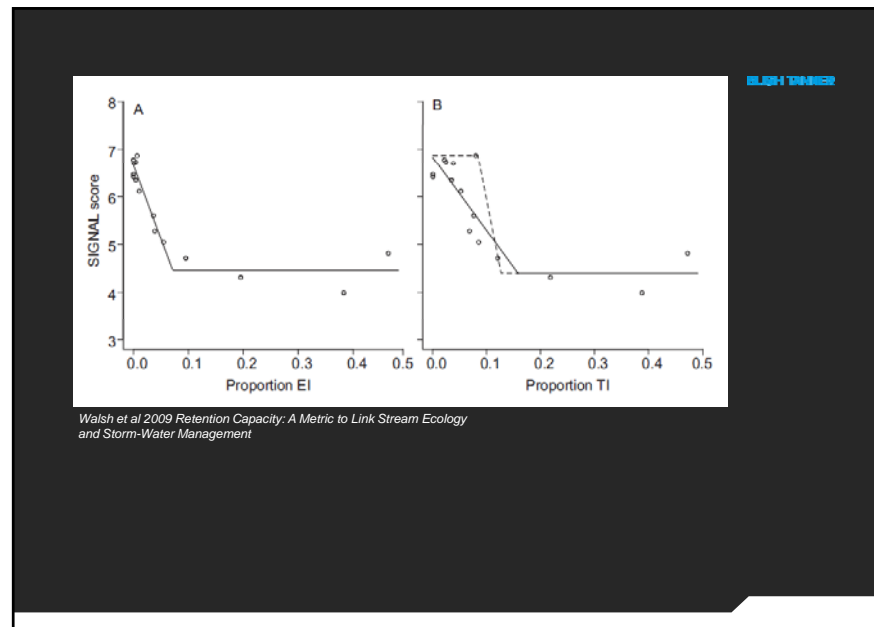
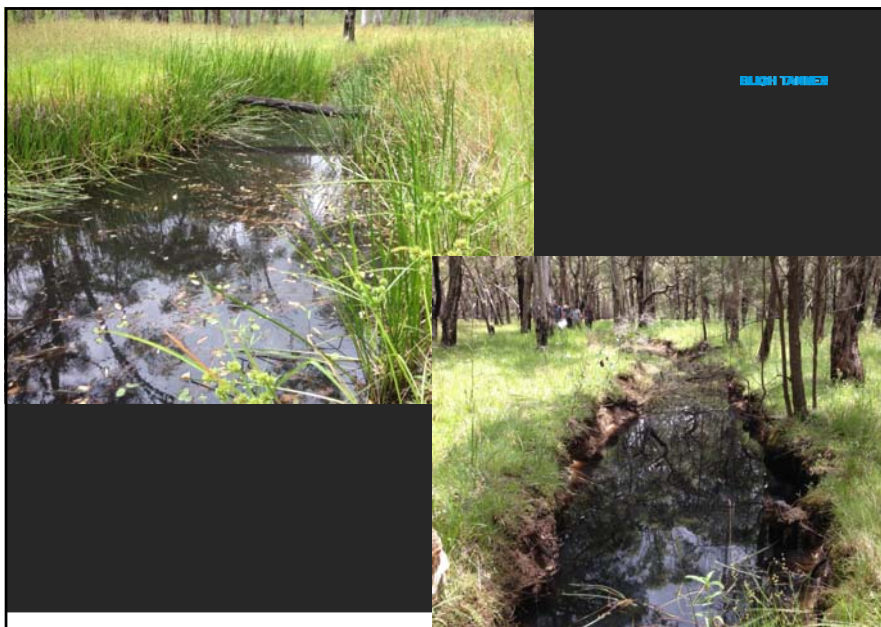
ELIOTT TANNER

"Its not the time or place to discuss that"

Sensitive Waterways

BLKON TRAINING





Resilient Waterways

BLIGH TANNER



TIA, either lumped or weighted to mimic the effect of directly connected impervious area (DCIA), was not observed to exert a strong impact on any ecological variables.

McIntosh, B.S., Aryal, S., Ashbolt, S., Sheldon, F., Maheepala, S., Gardner, T., Chowdhury, R., Gardiner, R., Hartcher, M., Pagendam, D., Hodgson, G., Hodgen, M. and Pelzer, L. (2013). *Urbanisation and Stormwater Management in South East Queensland – Synthesis and Recommendations. Urban Water Security Research Alliance Technical Report No. 106.*

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<http://themerrigardener.blogspot.com.au/>

ELIJAH TANNING

Melbourne Water has identified Merri Creek as having the worst water quality of Melbourne's urban streams.



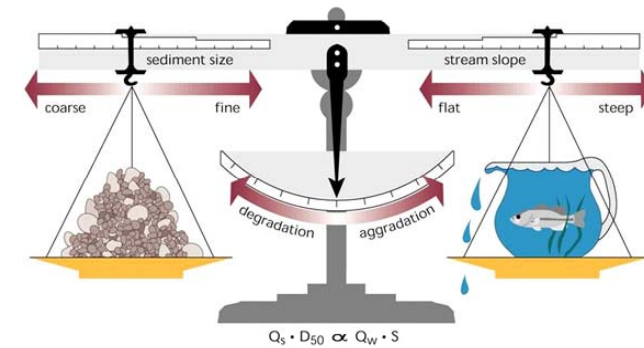
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Assuming that the primary degrading force is on-going runoff points towards management by means of water sensitive urban design features, and careful planning of urban layout and imperviousness.

If however, the primary impacts occur during or shortly after construction, then management by means of improved sediment erosion control, changes to the way land is cleared, built on and then revegetated might be more effective.

McIntosh, B.S., Aryal, S., Ashbolt, S., Sheldon, F., Maheepala, S., Gardner, T., Chowdhury, R., Gardiner, R., Hartcher, M., Pagendam, D., Hodgson, G., Hodgen, M. and Pelzer, L. (2013). *Urbanisation and Stormwater Management in South East Queensland – Synthesis and Recommendations*. Urban Water Security Research Alliance Technical Report No. 106.

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<https://riverrestoration.wikispaces.com/>

