



Proudly Presents

Ecological and Hydrological Assessment for a Constructed Stormwater Wetland

Date: 27 August 2009

Presented by:

Graham Jenkins

Presentation Overview

Although the vegetation within constructed stormwater wetlands plays an important role in the treatment processes taking place, its density and distribution depends on the wetland bathymetry and the imposed hydrologic regime. This presentation describes an ecological and hydrological assessment of a constructed stormwater treatment wetland over a 5 year period. This assessment included the use of a continuous simulation hydrologic model combined with a Digital Elevation Model of the wetland bathymetry, plus a time series of vegetation maps. The combined spatial and temporal analysis indicates that both the frequency and duration of inundation has affected the fate of vegetation throughout the wetland. Restoration strategies have also been investigated to improve the survival of vegetation within the wetland. The study has indicated the importance of considering the interaction between the hydrological and ecological aspects when designing stormwater treatment wetland systems.

Presenter

Graham is currently Senior Lecturer in Water Engineering in the Griffith School of Engineering at the Gold Coast campus. Graham has more than 25 years of academic, research and teaching experience backed up by over 10 years of practical experience in the water engineering industry. His expertise is in the modelling of natural and urban water systems, including the hydrology, hydraulics and pollutant treatment processes of natural and artificial drainage systems. Between 2000 and 2005, Graham was a researcher in the CRC for Catchment Hydrology and contributed to the development of the MUSIC software. In collaboration with Associate Professor Margaret Greenway at Griffith University Graham has undertaken an active research program in the assessment of urban wetland systems. This research has focussed on investigating the relationships between the stormwater runoff regime, the wetland ecology and the water quality treatment processes taking place.

Programme 5.45 pm Registration
 6:15 pm Dinner
 7.00 pm Presentation

Registrations close at 12 noon 24 August 2009 – fax to 3257 2392
Registration Form on following page



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**Ecological and Hydrological Assessment for a
Constructed Stormwater Wetland**

27 August 2009

PO Box 2100
Fortitude Valley BC
Qld 4006
Phone: 07 3000 2116
Fax: 07 3257 2392

Programme 5.45 pm Registration
 6:15 pm Dinner
 7.00 pm Presentation

To be held at The Greek Club & Convention Centre, Edmondstone St, West End

Please note—Registrations **CANNOT** be accepted after 12 noon 24 August 2009 – fax to 3257 2392

1st Registrant

Name:

Email: Yes, I wish to receive mail-outs

2nd Registrant

Name:

3rd Registrant

Name:

4th Registrant

Name:

Company: Contact:

Address:

Tel: () Fax: ()

E-Mail:

(We would appreciate your e-mail address so that we can forward correspondence to you electronically in future)

I am paying by Cheque Purchase order Mastercard Visa Amex Diners

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Valid until: / 20.....

Name:
as appears on credit card

Card holders Signature:

Registration Fees

This payment is for persons at \$55.00 per head for non-members (\$10 day membership included)

This payment is for persons at \$45.00 per head for SIA members

This payment is for persons at \$35.00 per head for students

TOTAL \$ _____

Please make cheques payable to: Stormwater Industry Association (Qld) Inc

Enquiries phone Christine Warne on (07) 3000 2116, fax (07) 3257 2392 or e-mail at: siaqld@stormwater.asn.au

Please notify your Registration by 12 noon 24 August 2009

Stormwater Industry Association Qld Inc., PO Box 2100, Fortitude Valley BC, Qld 4006

Cancellations must be notified no later than two (2) days before the event otherwise registration fees will be charged.