



Dear All,

*Applications for the role of WSUD in Sydney Program Manager will close on 20 July 2007. Recruitment will be finalised on or near 20 August 2007. For further information, please refer to <https://jobs.nsw.gov.au/JobDetails.asp?JobAdvertId=61715>*

*I have spent the last few weeks meeting with stakeholders, reviewing the program's performance over the last two years and planning the direction of the program over the next 12 months and beyond. I would like to thank those who contributed to the process. I am very pleased to advise the Sydney Stormwater Sustainability Group endorsed my recommendations culminating in a 2007/08 Workplan that will guide the program's delivery over the next 12 months. For a copy of the workplan please refer to [http://www.wsud.org/downloads/Workplan\\_2007-08\\_Final.pdf](http://www.wsud.org/downloads/Workplan_2007-08_Final.pdf)*

*Regards K.  
Kate Black  
A/Program Manager*

The **July 2007** (No. 40) WSUD e-newsletter contains information on:

**(1)** 5<sup>th</sup> International WSUD Conference **(2)** NWC's Australian Water Resources 2005, Level 2 Assessment **(3)** Rainwater Tank Calculator **(4)** The Economics of Rainwater Tanks **(5)** FAWB – Transition to WSUD: The Story of Melbourne, Australia **(6)** NSW BASIX Snapshot **(7)** NSW Government Climate Change Fund – Council Opportunities **(8)** NSW SIA 2007 Awards for Excellence **(9)** WSUD Events **(10)** Relevant Websites

### **1. The 5<sup>th</sup> International WSUD Conference – 21 to 23 August 2007 (Sydney)**

This conference will be held in Sydney from 21 to 23 August 2007 and hosting delegates from over 40 countries, the conference combines the 13th International Rainwater Catchment Systems Association and the 5th International Water Sensitive Urban Design conferences. Registration closes on 17 August 2007. For a copy of the program refer <http://www.rainwater2007.com/program.asp> or to register refer <http://www.rainwater2007.com/rego.asp>

### **2. NWC - Australian Water Resources 2005 – Level 2 Assessment**

The National Water Commission released the findings from the second stage of the baseline assessment of water resources for the National Water Initiative (NWI). 'Australian Water Resources 2005' is a baseline measurement of Australia's national water resources during 2004-05, establishing a starting point to measure sustainable urban water management improvements resulting from the NWI. The findings illustrate a need for enhanced groundwater and surface water management and assessment, including further mapping and analysis of the extent of interaction. Key findings or a copy of the entire report may be downloaded from [http://www.water.gov.au/Publications/index.aspx?Menu=Level1\\_8 - level2](http://www.water.gov.au/Publications/index.aspx?Menu=Level1_8 - level2)

### **3. Rainwater Tank Sizing Calculator**

A rainwater tank sizing calculator has been developed by the University of South Australia (Centre for Water Science and Systems). Primarily for sizing domestic rainwater tanks up to 20,000 litres (20 kL). The calculator and accompanying notes are very user friendly with input data mechanisms (roof area, initial loss, inhouse demand, irrigation) coupled with capital city rainfall data. Similarly, the accompanying notes for interpreting the output data are also very easy to follow. It has been developed in excel and can be downloaded from:

<http://www.unisa.edu.au/water/UWRG/publication/raintankanalyser.asp>

#### **4. The Economics of Rainwater Tanks – Marsden Jacobs Associates (April 2007)**

The study compared yields and levelised cost (per kilolitre supplied) of various long term water source options (eg. Desalination plants and dams) in Sydney, Melbourne and South East Queensland with the yield and cost of rainwater tanks. The report notes there are about 1.1 million houses in Sydney (detached/ semi-detached dwellings) that may be suitable for rainwater tank installation. Research found that demand management, recycling initiatives and tank installation (within 5% of households/ year at a cost of \$200 - \$280 million/ year) may 'free up' existing water supplies (excluding emergency supply options) and defer a need for additional future water sources to account for population growth. For a copy of the report refer

[http://www.acfonline.org.au/articles/news.asp?news\\_id=1222&c=115039](http://www.acfonline.org.au/articles/news.asp?news_id=1222&c=115039)

Other major findings detailed in the report include:

- In Sydney, rainwater tank costs are similar to other supply options (eg. dams and desalination) for houses with large roof collection areas and average to high water use;
- Dwellings with smaller roof areas typically have low yields and significantly higher unit cost;
- Rainwater tanks are five times more energy efficient than desalination plants per kilolitre (1,000 litres) of water produced.

#### **5. FAWB – Transition to WSUD: The Story of Melbourne, Australia**

The Facility for Advancing Water Biofiltration (FAWB) in association with the National Urban Water Governance Program released a report entitled 'Transition to Water Sensitive Urban Design: The Story of Melbourne, Australia'. The report's underlying research was conducted by Dr Rebekah Brown and Jodi Clarke who examined the impacts of socio-technical initiatives such as biofiltration on the uptake of WSUD. The report itself presents the findings of social research focussed on identifying the key institutional change ingredients that will lead to the mainstreaming of the WSUD approach across modern cities. That is a transition from traditional to more sustainable urban water management.

You can download a copy at: <http://www.monash.edu.au/fawb/publications/index.html>

#### **6. NSW BASIX Snapshot**

The NSW Department of Planning has released three reports derived from the monitoring of BASIX to ensure it meets sustainability objectives and where applicable to refine and improve BASIX. Refer <http://www.basix.nsw.gov.au/information/monitoring.jsp> for a copy of the reports. Reports include:

- BASIX 2004-2005 Outcomes: Details single home commitments made at the development application stage (July 2004 to July 2005);
- BASIX 2004/05 Snapshot: A summary of the key findings from the main report;
- BASIX 2005/06 Snapshot: Preliminary analysis of over 500 completed single dwellings from the second year of BASIX policy, covering all of NSW. Including rainwater tank connections and hot water selections.

#### **7. NSW Government Climate Change Fund – Council Opportunities**

The NSW Government established a Climate Change Fund incorporating the Water and Energy Savings Funds, the Climate Action Grants Program and funding from the Environmental Trust. Currently in the developmental stages, the fund will provide \$310 million over 5 years. Refer [www.environment.nsw.gov.au/grants/ccfund.htm](http://www.environment.nsw.gov.au/grants/ccfund.htm) for further information or register your contact details via [sustainability@environment.nsw.gov.au](mailto:sustainability@environment.nsw.gov.au) to be advised regarding funding availability. Opportunities for local councils in Sydney include:

- \$100 million Recycling & Stormwater Harvesting Program – implementing Sydney Recycled Water Grid;

- \$30 million Public Facilities Program – supporting energy and water saving projects.

## 8. SIA NSW 2007 Awards for Excellence

*Congratulations to the following Sydney councils for winning the Stormwater Industry Association's NSW 2007 Awards for Excellence in Urban Stormwater Management. For further detail refer [www.stormwater.asn.au/nsw/AwardsNSW2007.html](http://www.stormwater.asn.au/nsw/AwardsNSW2007.html) :*

- *Stormwater Education: Kogarah Council - Catchment Crusaders Program;*
- *Stormwater Research: Penrith City Council - Penrith Broadscale Overland Flow Flood Study;*
- *Software Development: Hornsby Shire Council - Hornsby Integrated Catchment Assessment and Management Centre (iCAM);*
- *Stormwater Quality Device or Measure: Blue Mountains City Council – Magdala Creek Riparian Restoration Project (MCRRP).*

## 9. WSUD Events

The following WSUD related events will be held over the next few months:

1. *Urban Stormwater Sessions, University of Technology, Sydney 25 – 27 July 2007.* 3 workshops are being delivered on urban stormwater drainage. The workshops introduce engineers to the field of urban stormwater management and train them to use the DRAINS program for design and analysis work, providing the knowledge needed to design new and infill drainage systems and to manage existing systems. Refer <http://www.eng.uts.edu.au/courses/short/drains2007.pdf>
2. *Using Recycled Water For Drinking, Power House Museum, Sydney 03 August 2007* (half day forum). The forum comprises 5 experts addressing technical and quantifiable risks, plus political and media issues of drinking recycled water. [www.awa.asn.au/Content/NavigationMenu2/Education/NationalInterestEvents/bApr08bWaterEfficiency2008/default.htm](http://www.awa.asn.au/Content/NavigationMenu2/Education/NationalInterestEvents/bApr08bWaterEfficiency2008/default.htm)
3. *The AWA Recycled Water Guideline One Day Seminar, Carlton Crest, Sydney 06 September 2007.* The course will examine requirements, purpose and application of the guidelines using practical case studies. To download the course program and speakers list please refer to: <http://www.awa.asn.au/Content/NavigationMenu2/Education/NationalInterestEvents/bVarious07bRecycledWaterGuidelines/default.htm>

## 10. Relevant Websites – new and/or revised content

The following websites may be of interest:

1. The CRC for Water Quality and Treatment focus on issues relating to water quality management and health risk reduction from catchment and reservoir management and water treatment to the distribution of drinking water to consumers taps. Refer: <http://www.waterquality.crc.org.au/index.html>
2. NSW Department of Water and Energy's (formerly DEUS) greywater web page provides information in terms of benefits and disadvantages, health and safety, ways to reuse, guidelines for reuse in households, fact sheets, purchasing devices and systems, registered environmentally sensitive areas and other information such as links to other sites and other pertinent information. Refer: <http://www.deus.nsw.gov.au/Water/Greywater/Greywater.asp - TopOfPage>
3. The Australian Government's Department of the Environment and Water Resources have launched a new website containing links to key initiatives and other specific water sustainable urban water management responsibilities. Refer: <http://www.environment.gov.au/water/index.html>

*If you have a water sustainability related policy, case study, report or an event/seminar coming up please email me the details and I will endeavour to put the information up on the wsud.org website and/or include it in this e-newsletter.*

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***Please forward this on to colleagues who may be interested in Sustainable Water Management and/or WSUD.***

If this e-newsletter was forwarded to you and you would like to receive future WSUD e-newsletters please send an email to [info@wsud.org](mailto:info@wsud.org) and put **join** in the subject line.

If you want to be removed from this e-newsletter list please email [info@wsud.org](mailto:info@wsud.org) with **remove** in the subject line.

Regards

**Kate Black**

Water Sensitive Urban Design in Sydney Program

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