

# Plumbing Regulation News Update

Plumbing Regulation News Update 03/2009

Issued: 2 April 2009

## Domestic Greywater Management for Sustainable Reuse – Training

### Purpose

To advise of upcoming training on domestic greywater management for sustainable reuse 5 May 2009. The training session will also include an overview of the Tasmanian regulatory environment for on-site greywater management.

### Who should attend

This course is structured for those involved in the design, construction, evaluation, monitoring and regulatory oversight of on-site waste water management systems. It is particularly relevant to Environmental Health Officers, Plumbing Inspectors/Surveyors, Building Surveyors, Environmental Managers, Planners, Environmental and Engineering Consultants, Site and Soil Assessors as well as on-site waste water management system designers, manufacturers and plumbers involved in the installation, monitoring and maintenance of on-site waste water management systems.

### Objective of the training

The training session will cover the composition and quantification of greywater, public health and environmental risks, the regulation of greywater management systems, diversion and treatment technologies, disinfection, storage, land application and other reuse options.

### When and where is the training to be held

5 May 2009, at the Royal Hobart Golf Club, 81 Seven Mile Beach Road, Seven Mile Beach.

### Course Registration

For course registration see attached brochure or contact the Centre for Environmental Training direct on phone 02 4954 4997 or by email: [mail@environmentaltraining.com.au](mailto:mail@environmentaltraining.com.au)

### Continuing Professional Development (CPD)

By attending this course may earn you CPD points. Check with your industry association. Accredited Building Practitioners may check the CPD Pages on the Building Practitioner Accreditation webpage: [www.wst.tas.gov.au/building](http://www.wst.tas.gov.au/building)

**Further information:**

For more details about plumbing legislation contact the Workplace Standards Tasmanian Helpline:

Phone: (in Tasmania) 1300 366 322;

Phone: (outside Tasmania) (03) 6233 7657 Fax: (03) 6233 8338

Email: [wstinfo@justice.tas.gov.au](mailto:wstinfo@justice.tas.gov.au)

Address: PO Box 56, Rosny Park TAS 7018

Website: [www.wst.tas.gov.au/building](http://www.wst.tas.gov.au/building)

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## Domestic Greywater Management and Reuse

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### DOMESTIC GREYWATER MANAGEMENT FOR SUSTAINABLE REUSE

Greywater reuse and management is topical, yet authoritative information on greywater characteristics, greywater treatment, management and reuse is often hard to find. Household users seek clear guidance on options, as do regulators who are increasingly presented with challenges associated with greywater management.

Greywater guidelines vary from State to State. Limited and often conflicting guidance has been available from regulatory agencies throughout Australia. Many governments have been strongly promoting greywater reuse amongst the wider community, particularly in urban areas during water shortages. This presents challenges for regulators, environmental managers, technology providers, architects, designers, builders and homeowners, for whom there are many questions to be answered.

This one-day course covers a wide range of greywater related topics. It provides a wealth of factual information and resources and helps to debunk many myths which exist around the topics of greywater treatment and sustainable reuse.

The course covers the composition and quantification of greywater, public health and environmental risks, the regulation of greywater management systems, diversion and treatment technologies, disinfection, storage, land application and other reuse options.

Practical demonstrations and workshop exercises explore in detail the nature of greywater, the challenges and opportunities for treatment and reuse and the application of greywater to soil and vegetation.

The available technologies will be reviewed along with their approval and accreditation status in the respective States, the claims made and what reasonable performance expectations might be.

Advantages and disadvantages of different approaches will be explored and costs and benefits considered and quantified.

### DOMESTIC GREYWATER MANAGEMENT FOR SUSTAINABLE REUSE

#### Technical sessions include:

- Greywater characterisation  
*Physical, chemical and biological characteristics*  
*The implications of household chemicals*
- Quantification of greywater  
*Sources and volumes*
- Public health and environmental risks  
*Pathogens, nutrients, odours and amenity issues*
- Regulation of greywater management systems  
*Approvals, accreditation, guidelines, responsibilities and reporting*
- Greywater diversion systems  
*Examples of available options*
- Greywater treatment systems  
*Examples of available options*
- Assessing site suitability for land application  
*Site constraints, soils and vegetation*
- Land application systems  
*Design, sizing and management*
- Landscaping options and planting
- Technologies and technical issues  
*Selection, operation and maintenance*  
*What is available? What claims are made?*  
*How well do they work?*
- Greywater system applications and approvals  
*What to look for and how to deal with them*  
*Problems and Challenges*
- The economics of greywater systems  
*Costs and benefits, payback periods*

### COURSE PRESENTERS

#### **Joe Whitehead, BSc, MAppSc, FGS, MEIA, MAWA.**

Joe is the Director of the Centre for Environmental Training and Principal of Whitehead & Associates Environmental Consultants Pty Ltd, a leading consultancy specialising in on-site and decentralised wastewater management throughout Australia, New Zealand and the Pacific Islands. Joe is an experienced designer of alternative on-site wastewater management and reuse solutions on all scales from single domestic premises to community facilities and villages. He has experience in the design, installation, operation and management of a range of greywater treatment and reuse systems. Joe has been involved in the preparation and technical review of a number of regulatory guidelines including the NSW *Environment & Health Protection Guidelines* and has prepared and delivered in excess of 100 professional short courses in wastewater topics at venues throughout Australia and New Zealand.

#### **Shann Spencer, BEnvSc.**

Shann is a consultant at Whitehead & Associates Environmental Consultants Pty Ltd and a course presenter for the Centre for Environmental Training. Shann has wide-ranging experience in on-site wastewater management, including site assessment, design, management, regulation and auditing. Shann was previously an Environmental Protection Officer for Hornsby Shire Council responsible for the management of the 4,500 onsite sewage management systems in the Shire. Shann developed the Hornsby Council Greywater Reuse Policy and implemented a greywater reuse education program in the Shire.

In addition there will be presentations by one or more guest presenters on the regulatory aspects of greywater management in each State in which the course is delivered and/or demonstrations of greywater technologies.

**REGISTRATION FORM / TAX INVOICE**  
ABN 48 091 629 686 COURSES 0635, 636, 637

Name \_\_\_\_\_  
Organisation \_\_\_\_\_  
Postal Address \_\_\_\_\_  
Postcode \_\_\_\_\_  
Tel \_\_\_\_\_  
Fax \_\_\_\_\_  
e-mail \_\_\_\_\_

**PLEASE REGISTER ME FOR *Domestic Greywater Management for Sustainable Reuse***

*Airport Motel and Convention Centre, 33 Ardlie Street, Attwood, VIC 3049. 4 May 2009*

*Royal Hobart Golf Club, 81 Seven Mile Beach Rd, Seven Mile Beach, Hobart TAS 7170. 5 May 2009*

*Hornsby RSL, 4 High Street, Hornsby, NSW 2077. 18 May 2009*

*I enclose payment of the course fee*

*\$345.00 + \$34.50 GST = Total \$379.50*

*Official order is enclosed/attached*

*Please invoice me for the course fee*

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**5% discount for two or more registrations from the same organisation.**

The course will be held from 8.30am to 4.30pm. Course fee includes course notes, lunches and morning and afternoon teas.

Register by post or fax with completed Registration Form and official purchase order / order number. No facilities for credit card payment are available. Electronic funds transfer details will be sent with your invoice. Please make cheques payable to:

**The Centre for Environmental Training**  
251 Wallsend Road  
CARDIFF HEIGHTS NSW 2285 AUSTRALIA

Telephone: +61 2 4954 4997

Facsimile: +61 2 4954 4996

e-mail: mail@environmentaltraining.com.au

**Domestic Greywater Management and Reuse**

**DOMESTIC GREYWATER MANAGEMENT FOR SUSTAINABLE REUSE**

This course provides a wealth of detailed and informative information on a wide range of greywater treatment and reuse topics.

The course has been prepared by leading on-site wastewater practitioners experienced in the design, construction, evaluation, monitoring and regulatory oversight of a wide range of alternative wastewater treatment and reuse systems.

The course is delivered by the Centre for Environmental Training, the leading Australasian provider of professional on-site and decentralised wastewater management training and well known for a wide range of wastewater related short courses including the *On-site Wastewater Management Training Course*.

The course will include a number of detailed pictorial case studies of greywater management systems and reuse.

**Who should attend?**

- Environmental Health Officers
  - Health and Building Surveyors
  - Environmental Managers
  - On-site Wastewater Consultants
  - Environmental/Engineering Consultants
  - Wastewater System Designers
  - Wastewater System Installers
  - Plumbers and Drainlayers
  - Architects
  - Designers
  - Builders
  - Homeowners
- Those with an interest in Sustainability**

*"Excellent! Very relevant, level good, has provided a lot of new info, and clarified other issues."* Kerry Spratt, NSW Health

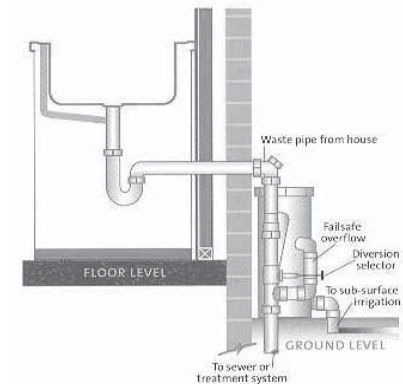
*"Very helpful. I feel more confident to take on greywater related work."* Peter Fogarty, Soil & Land Conservation

*Very good – informative and open. The format encourages interaction between the speakers and participants."* Rod Cooper, GHD, Hobart, TAS

**Domestic Greywater Management for Sustainable Reuse**

**May 2009**

**Melbourne, VIC  
Hobart, TAS  
Hornsby, NSW**



**An informative short course for Regulators, Wastewater Professionals, Architects, Designers and Homeowners covering a wide range of greywater treatment and sustainable reuse topics**

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**Centre for Environmental Training**