



WASTEWATER SYSTEMS DESIGN AND MANAGEMENT WORKSHOP

Organised by:

Sponsored by:



16 MARCH 2016, SYDNEY

Is your wastewater treatment plant operating well?

Do you need staff training in this area? Do you want to cut the costs of running your plant?

Have you recently installed new equipment?

Many companies need to operate and manage their wastewater treatment systems to remain in compliance and reduce high costs associated with sewage and waste disposal. To help sites better manage their wastewater systems this workshop takes you through the range of processes and regulatory requirements needed to select and operate your wastewater system at its optimum level.

This course covers:

- ✓ Overview of Sydney Water's Trade Waste policy and agreement processes
- ✓ Discharge limits and approaches under Environment Protection Licences
- ✓ How to negotiate changes to your discharge conditions
- ✓ Upstream focus on cleaner production and reducing the load on the treatment plant
- ✓ **Treatment systems covered**
 - **Physical separation:** → Dissolved Air Flotation, filtration, settling systems, dewatering, screening, filtration, RO and management of sludge
 - **Biological:** → BOD reduction using MBRs, activated sludge, anaerobic digestion and the latest technologies etc
 - **Chemical treatments:** → use of coagulants, flocculants, filter aids, chemical destruction etc
 - **Maintenance and operations:** pumps, mechanical, chemical and process control
- ✓ Waste and liquid waste management and costs and how to reduce them

Details at a glance

Date: 16 March 2016 - Sydney
 Time: 8:30 am – 5 pm; Registration from 8:20 am.
 Venue: Dooleys Waterview Club, crn Clyde Street,
 and Silverwater Road Lidcombe

WASTEWATER SYSTEMS DESIGN AND MANAGEMENT - AGENDA

8:40 am	Registration and Coffee	
8:30 am	Welcome and Introduction	ASBG
8:35	Overview Of Trade Waste Policy — sewer limits and changes to Sydney Water's standards including proposed charge rates eg BOD increases	Dr Para Parameshwaran, Sydney Water
9:15	Other regulatory issues , limits and legal processes involving waste water and its by-products	Andrew Doig, ASBG
9:45	Introduction to Trade Wastewater Treatment ; What is there to treat? An overview of the mechanisms of treatment. Treatment options – Pre-treatment, Primary treatment, Secondary (Biological) treatment and advanced treatment options	Mathew Pugh , Director Hydroflux Industrial
10:30	Morning coffee and Networking	
10:50	Pre-treatment and Primary Treatment processes - screening, balancing, DAF and clarifiers, chemical conditioning processes (coagulants and polymers)	Mathew Pugh , Hydroflux Industrial
	Biological treatment : how it works, activated sludge, trickling filters, anaerobic and advanced systems → low energy usage; low footprint	Bruce Willis Director, Hydroflux Utilities
12:00 pm	Lunch	
1:00	Secondary Treatment Processes – aerobic and anaerobic biological systems to further reduce BOD	Bruce Willis , Hydroflux Utilities
1:50	Sludge Management – dewatering options to reduce offsite disposal costs	Mathew Pugh , Hydroflux Industrial
2:20	Cleaner Production : minimisation of wastewater and management of residues from wastewater treatment and its disposal.	Andrew Doig, ASBG
3:00	Afternoon Tea	
	WORKSHOP - Participants are invited to bring their own wastewater treatment plant problems with them and have them analyzed by our team of experts	
5:00	Close	

PRICE (incl GST)	VENUE	DATE AND TIME
ASBG, NSW BC members, Hydroflux clients and supporters \$395 Non-Member \$495	Dooleys Waterview Club Crn Clyde and Silverwater Road SILVERWATER	8:30 am - 5 pm 16 March 2016
E-notes, morning tea is included in the package		

REGISTER ME FOR THE
EPL Seminar and
Workshop

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Cancellation: If you are unable to attend, a substitute delegate from your organization is welcome at no extra charge. No refunds for cancellations in writing closer than 3 working days from the event no refunds can be made, but notes will be forwarded following the event. See [ASBG's terms](#) for details. A **Tax Invoice** will be issued for each registration. **Confirmation** will be provided one week prior to the course if registration received.



Expiry date __ / __ / __

