



# ONE-DAY SEMINAR ON WATER ACCOUNTING AND AUDITING TOOLS FOR IRBM

Dewan Bunga Raya JPS Ampang | 26 November 2015

DEPARTMENT OF IRRIGATION AND DRAINAGE  
MALAYSIAN WATER PARTNERSHIP  
eWATER SOLUTIONS

## REGISTRATION FORM

NAME : \_\_\_\_\_

ORGANISATION AND ADDRESS :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EMAIL : \_\_\_\_\_

CONTACT NO : \_\_\_\_\_

Fee :  
Members - RM100  
Non-members - RM200

Payment may be made via Cheque/Cash/Government LO. Cheque, bank draft or LO should be made payable to MALAYSIAN WATER PARTNERSHIP. Payment may also be banked into MyWP's CIMB Islamic Bank account No. 8600238146 or via internet bank transfer.

Kindly fax or email proof of payment and participant's details to Malaysian Water Partnership (MyWP) at Fax No. (603)4256 2682 or email: athirahlim@gmail.com

For other enquiries, you may contact Athirah Lim at (603)4289 5571 / (019)629 2301 / athirahlim@gmail.com





# TENTATIVE PROGRAMME

## ONE DAY SEMINAR ON WATER ACCOUNTING AND AUDITING TOOLS FOR IRBM

26 NOVEMBER 2015 | DEWAN BUNGA RAYA JPS AMPANG, KL

### OBJECTIVES OF THE SEMINAR

- To exchange knowledge and ideas for developing water accounting and auditing frameworks to operationalize the IRBM approach for river basin water resources management
- To exchange knowledge and ideas for developing and selecting river basin water resources accounting and auditing modeling tools

### BACKGROUND

Affirmative actions are already underway to implement the Integrated River Basin Management (IRBM) approach as part of the Integrated Water Resources Management (IWRM) for Malaysia. One of the major actions is the identification of 189 River Basin Management Units (RBMUs). Each of this RBMU will need to develop and implement its specific IRBM Masterplans. Masterplan studies for selected rivers are already completed and ready for detailed implementation plans. A major aspect of these plans is for a well-structured water resources accounting and auditing system acceptable to all stakeholders in the river basin.

A framework for the river basin water resources accounting and auditing will need to be developed. At the same time, robust yet reliable water resources modelling tools will be necessary to consider the often complex stakeholders' water needs and the environment.

The development and selection of specific tools for IRBM will need to represent and integrate watershed and riverine processes, supply and demands and predict environmental, social and economic consequences of changes across the highly interconnected land phases of the hydrological cycle.

The outputs are intended to provide reliable, repeatable impact analysis of human interventions such as hydropower, irrigation, land use, climate change, pollution, etc in a way that communicates to managers and policy/decision makers. But the policy/decision world is a stakeholder/politically driven process and the scientific approach doesn't easily lend itself to the needs of the policy maker without significant interpretation and scenario analysis. The Australian experience and development of eWater Source which incorporates water accounting and policy/legal structures as an additional dimension to the basic IWRM platform allows IWRM and policy to be developed as an integrated approach. Examples of applications will be presented by Dr Robert Carr and discussed as to how these approaches are applicable to Malaysian River Basins.

Dr Robert Carr is an experienced hydrologist and hydraulics expert with 30 years of expert review, project, software development and management experience. Robert is a researcher, trainer and practitioner in the water science-to-technology field particularly in the field of simulation tools for integrated water management for Australia and internationally. He has undertaken water management projects including real-time warning, planning and operational models for river, water supply and wastewater systems. He has managed projects involving data collection, hydraulic and hydrological analysis in IWRM, flood management, groundwater/surface water interaction and wet weather wastewater analysis. He has delivered more than 100 training courses and seminars in modelling for water resources and urban water management. He has lived and worked in several countries.

### TARGET GROUP

The seminar is designed for professionals involved in river basin management including planners, decision makers, engineers, environmentalist and law enforcers. The expected number of participants is 100.

8:00 - 8:45 am	Registration and breakfast
9:00 - 9:45 am	Implementing IRBM in Malaysia Tn Mohd Said Dikori, Director, River Basin Management Division, JPS Malaysia
9:45 - 10:30 am	Developing Water Accounting and Auditing Framework for River Basin Water Resources Management Dr. Robert Carr, CEO eWater Solutions

#### 10:30 - 11:00 am REFRESHMENT

11:00 - 11:20 am	<b>RIVER BASIN MASTER PLAN</b> Sungai Muar IRBM Plans - Water-related Issues Ir. Hj. Nor Hisham Mohd. Ghazali, Director, JPS Johor
11:20 - 11:40 am	Sungai Langat IRBM Plans - Water-related Issues Tn. Hashim Osman, Director, JPS Selangor
11:40 - 12:00 noon	Sungai Terengganu IRBM Plans - Water-related Issues Ir. Puchelan Chidambaram, Director, JPS Terengganu
12:00 - 12:20 pm	Sungai Batang Sarawak IRBM Plans - Water-related Issues Ir. Chok Moi Soon, Director, JPS Sarawak
12:20 - 12:40 pm	Sungai Padas IRBM Plans - Water-related Issues Ir. Ng Chee Hing, Director, JPS Sabah
12:40 - 1:00 pm	DISCUSSION
1:00 - 2:30 pm	LUNCH
2:30 - 3:30 pm	<b>IRBM TOOLS</b> Hydrological Inputs for Water Resources Management - The Malaysian Experience Water Resources Management and Hydrology Division, JPS Malaysia Dr Asnor Muizhan Ishak, Principal Assistant Director, JPS Malaysia
3:30 - 5:00 pm	River Basin Water Resources Management Modelling Tools - The Australian Experience Dr. Robert Carr
5:00 pm	END OF SEMINAR

