

# Demand Management Strategies – Achieving Water Balance –

## A Workshop on Dealing with Uncertainty and Managing Risk

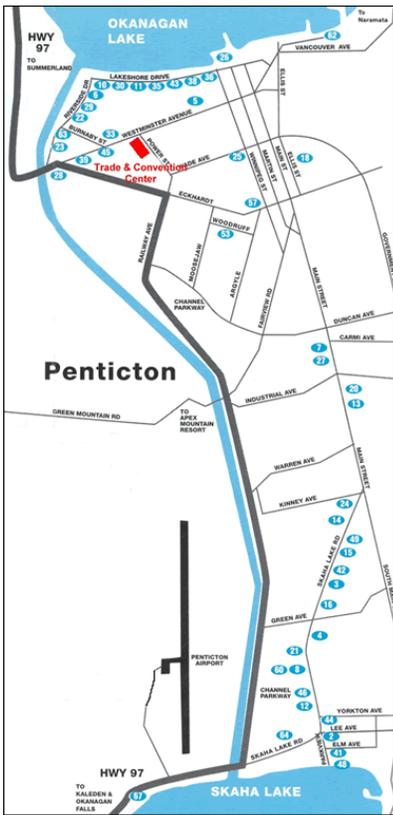
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
0800 - 0815	<b>REGISTRATION</b>	
<b>SEGMENT A – BUILDING RESILIENCY</b>		
0815 - 0830	<i>Workshop Overview:</i> <b>Setting the Scene to Achieve Water Balance</b>	Kim Stephens Water Sustainability Committee
0830 - 0915	<b>Building Resiliency through a Water Management Continuum</b>	Oliver Brandes The POLIS Project, University of Victoria
0915 - 0955	<b>Dealing with Uncertainty and Managing Risk: It Starts with an Understanding of Variables</b>	Ron Smith, Ministry of Sustainable Resource Management
0955 - 1015	<b>TAKE A BREAK &amp; RE-ENERGIZE</b>	
1015 - 1100	<b>Reconciliation of Long-Term Visions with Short-Term Realities: Planning to Live Within Limits</b>	Robert Hicks, Greater Vancouver Regional District
1100 – 1200	<i>Panel Session:</i> <b>On Tour With <a href="http://waterbucket.ca">waterbucket.ca</a> - Sharing Demand Management Success Stories from Around BC</b>	Moderated by Wenda Mason Land & Water BC, Inc.
1200 – 1300	<b>A WORKING LUNCH WILL BE SERVED</b>	
1220 – 1250 Lunch Speaker	<b>Outdoor Water Use: Strategies and Tools for Achieving the Balance</b>	Ted van der Gulik, Ministry of Agriculture, Food & Fisheries
<b>SEGMENT B – CREATING YOUR FUTURE</b>		
1300 – 1330	<b>Setting Objectives &amp; Targets: Context for Breakout Session</b>	Erik Karlsen, Chair Smart Growth on the Ground
1330 – 1430	<i>Breakout Session:</i> <b>Applying What You Have Learned Today</b>	Facilitated by Kim Stephens & Dr. Robert Wilkinson
1430 – 1440	<b>TAKE A BREAK &amp; RE-GROUP</b>	
1440 - 1510	<i>Plenary Session:</i> <b>Report Back on Breakout Group Findings</b>	Facilitated by Kim Stephens
1510 - 1600	<b>Water-Energy Nexus and the ‘Continuum’ for a Resilient Future</b>	Dr. Robert Wilkinson, Director, Water Policy Program, University of California (Santa Barbara)



**WEDNESDAY  
20 APRIL 2005**

**Technology Transfer Program  
8:00 am – 4:00 pm**

**Penticton Convention Centre**



**MAIL WITH CHEQUE OR FAX TO:**  
**BC Water & Waste Association**  
 Suite 221 – 8678 Greenall Avenue  
 Burnaby, BC, V5J 3M4  
 T. 604-433-4389 F. 604-433-9859  
 www.bcwwa.org

**Land & Water British Columbia, Inc.  
and the  
Water Sustainability Committee of the  
British Columbia Water & Waste Association  
present:**

**Demand Management Strategies  
– Achieving Water Balance –  
A Workshop on Dealing with Uncertainty and  
Managing Risk**

***Reserve Early!  
- Space is Limited -***

The old approach of “super-sizing” has proven expensive and is no longer sustainable. The workshop will connect the dots between water resource planning, climate variability and risk management to provide an understanding of how Demand Management tools and techniques can achieve a balance between supply and demand.

Traditionally water supply and demand has been balanced by diverting and developing new sources and consequent expansion of water supply, treatment and distribution infrastructure. Supply-side management has proven expensive and unsustainable both for our economy and the environment. This full-day technical transfer session will explore the tools and techniques available through demand-side management and give participants “hands-on” planning practice to demonstrate how to achieve a water balance without relying on new sources and infrastructure.

**REGISTRATION FOR APRIL 20, 2005 WORKSHOP**

**Members: \$175 plus GST  
Non-Members: \$210 plus GST**

Name \_\_\_\_\_

Company \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

Payment Method: \_\_\_\_\_ VISA \_\_\_\_\_ MasterCard \_\_\_\_\_ Cheque

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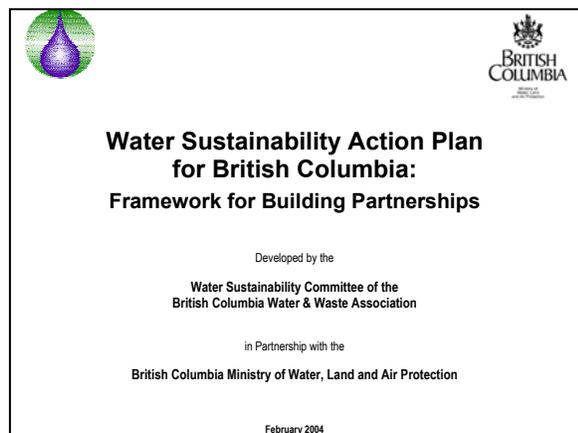
*Refunds will be given for cancellations received in writing by April 11, 2005, subject to a deduction of an administration fee of \$50.00 plus GST for a total of \$53.50. If you register after April 11<sup>th</sup>, your registration is considered firm. Substitutions are welcomed.*

# Water Sustainability Action Plan for British Columbia

**Context:** The Water Sustainability Committee (WSC) of the BCWWA has embarked on a partnership with the Province and other Stakeholders to develop and implement a fully integrated **Action Plan** that promotes and facilitates sustainable approaches to water use and water resource management:

- At all levels – from the province to the household; and
- In all sectors – from domestic, resource, industrial and commercial, to recreational and ecosystem support uses.

The Action Plan builds on **A Water Conservation Strategy for BC**, developed and implemented during the period 1997 through 2001 by the Province in partnership with the WSC.



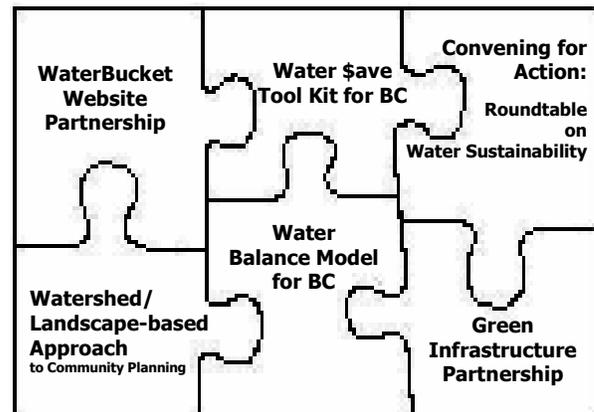
**The Action Plan recognizes that** the greatest impact on land and water resources occurs through our individual values, choices and behaviour. The goal of the Action Plan is to influence choices and encourage action by individuals and organizations so that water resource stewardship will become an integral part of land use and daily living.

Three defining questions provide a frame of reference for branding Action Plan Elements:

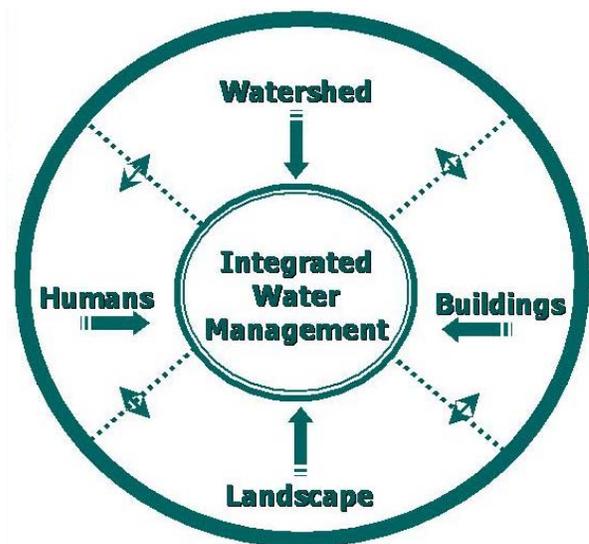
- **What** is the issue or problem?
- **So what** can be done about it?
- **Now what** will be done?

The WSC believes it is simply not good enough to focus only on defining the problems (the 'what') or debating the perspectives (the 'so what'). Rather, the objective of the Action Plan is to challenge individuals and organizations to demonstrate **how we can move from talk to action** (the 'now what').

**Action Plan Elements:** The Action Plan is comprehensive in scope and provides an umbrella for grassroots initiative, ranging from **governance to site design** that are informing Provincial policy through shared responsibility. Future Action Plan Elements will build on this foundation:



**The desired outcome** is implementation of *on-the-ground changes* in policies, programs, applied research, practitioner education and standards of practice that lead to full integration of water management and landscape (re)development. In an 'integrated landscape', water is the unifying element.



**Everything is connected** – and water management practices at the site scale can have either cumulative impacts or cumulative benefits at the watershed scale. A core principle underpinning the Action Plan is that behaviour and practices can be influenced for the better: resulting in *cumulative benefits* over time.



Time		Topic	Speaker	What to Expect in Each Presentation
0800 - 0815		<b>REGISTRATION</b>		
<b>SEGMENT A – BUILDING RESILIENCY</b>				
1	0815 - 0830	<b>Workshop Overview: Setting the Scene to Achieve Water Balance</b>	Kim Stephens, Water Sustainability C'mittee	The old approach of “super-sizing” has proven expensive and is no longer sustainable. The workshop will connect the dots between water resource planning, climate variability and risk management to provide an understanding of how DSM tools and techniques achieve a balance between supply and demand.
2	0830 - 0915	<b>Building Resiliency through a Water Management Continuum</b>	Oliver Brandes, The POLIS Project at the University of Victoria	Having options for managing water supplies and services within realistic financial and resource boundaries forms the water management continuum: from the supply-side, through the demand-side to the <i>soft path</i> . Moving beyond simply doing the same with less water, the ‘soft path’ seeks to build resiliency. This presentation will provide context for being innovative – by learning from the early demand-side management adopters.
3	0915 - 0955	<b>Dealing with Uncertainty and Managing Risk: It Starts with an Understanding of Variables</b>	Ron Smith, Ministry of Sustainable Resource Management	Total water resources are physically bounded within variable limits. Understanding how engineering analyses and assumptions deal with uncertainty and risk through their various interpretations of climate, climate variability, demand growth scenarios, and the physical and economic limits to system expansion will be explored as part of building resiliency.
0955 - 1015		<b>TAKE A BREAK &amp; RE-ENERGIZE</b>		
4	1015 - 1100	<b>Reconciliation of Long-Term Visions with Short-Term Realities: Planning to Live Within Limits</b>	Robert Hicks, Greater Vancouver Regional District	The solutions to short-term risks are long-term - it is a continuum. This presentation will explain why commitment to the long-term is so important; and will elaborate on the differences in approaches between short-term and long-term visions. Tools and techniques to ‘get from here to there’ will be illustrated and explored through engaging the audience.
5	1100 – 1200	<b>Panel Session: On Tour With <a href="http://waterbucket.ca">waterbucket.ca</a> - Sharing Demand Management Success Stories from Around BC</b>	Moderated by Wenda Mason, Land & Water BC, Inc.	Development of the <i>Water Save Tool Kit for BC</i> included a survey of 200 regional districts, municipalities and water districts. The survey provided the starting point for identifying success stories and lessons learned. These are now available on the <i>Water Use &amp; Conservation Community-of-Interest</i> on <a href="http://waterbucket.ca">waterbucket.ca</a> . The Presentation Panel will comprise representatives from five communities: they will highlight what is being accomplished on-the-ground throughout BC.
1200 – 1300		<b>A WORKING LUNCH WILL BE SERVED</b>		
6	1220 – 1250 Lunch Speaker	<b>Outdoor Water Use: Strategies and Tools for Achieving the Balance</b>	Ted van der Gulik, Ministry of Agriculture, Food & Fisheries	In parts of the province, supply-side management cannot satisfy water demands. This presentation will elaborate on core principles, integrated strategies and practical tools for evolving the water management continuum: the vision is to use water savings to expand irrigated agricultural land bases and support population growth in the urban centres. Examples will be drawn from Okanagan Basin, East Coast of Vancouver Island, and Fraser Valley experience.
<b>SEGMENT B – CREATING YOUR FUTURE</b>				
7	1300 – 1330	<b>Setting Objectives &amp; Targets: Context for Breakout Session</b>	Erik Karlsen, Chair, Smart Growth on the Ground	To learn about actions that will lead to sustainable uses of water resources, the audience will be challenged to focus on strategies that influence and change those behaviours and activities. This presentation will provide a bridge between the Panel Session and the Breakout Session. It will introduce the concept of short- and long-term objectives and targets where using the planning continuum provides a map that connects the two points in time.
8	1330 – 1430	<b>Breakout Session: Applying What You Have Learned Today</b>	Facilitated by Kim Stephens & Dr. Robert Wilkinson	Participants will work in groups to complete an exercise for a case study community that is struggling to develop an achievable strategy for managing population growth, land development and water use. Each group will be tasked with resolving issues and developing a path forward in reconciling short-term realities versus long-term desires. The group exercise is to brainstorm a framework for a water planning continuum that achieves water balance.
1430 – 1440		<b>TAKE A BREAK &amp; RE-GROUP</b>		
9	1440 - 1510	<b>Plenary Session: Report Back on Breakout Group Findings</b>		The groups will be asked to identify key gaps and needs so that the case study community can evolve along the water management continuum and achieve water balance. Each group will report back on their ‘top three points’ for short- and long-term action within the context of the exercise.
10	1510 - 1600	<b>Water-Energy Nexus and the ‘Continuum’ for a Resilient Future</b>	Dr. Robert Wilkinson, Director, Water Policy Program, University of California (Santa Barbara)	We get energy from water, and we use energy to supply, treat and use water. The key concerns between the water and energy industries are the same; and the issues are similar. One difference is that the energy industry tackled demand management much sooner than the water industry. This presentation will provide an overview of lessons that the water industry can learn from the energy industry; and will introduce the <i>water/energy nexus</i> project that the Canada Mortgage & Housing Corporation (CMHC) has commissioned for the Greater Vancouver region. The project will provide an analysis of the ‘energy intensity’ of water in Vancouver, as well as an initial exploration of opportunities for securing multiple benefits through integrated management strategies.