



## **Sustainable Rainwater Management: Mimic the Water Balance!**

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Learn How to Use Effective Green Infrastructure, Lighten the 'Water Footprint',  
Achieve More at Less Cost, Adapt to Climate Change and Protect Stream Health



### **A Water Balance Model Workshop on "Integrating the Site with the Watershed and Stream"**

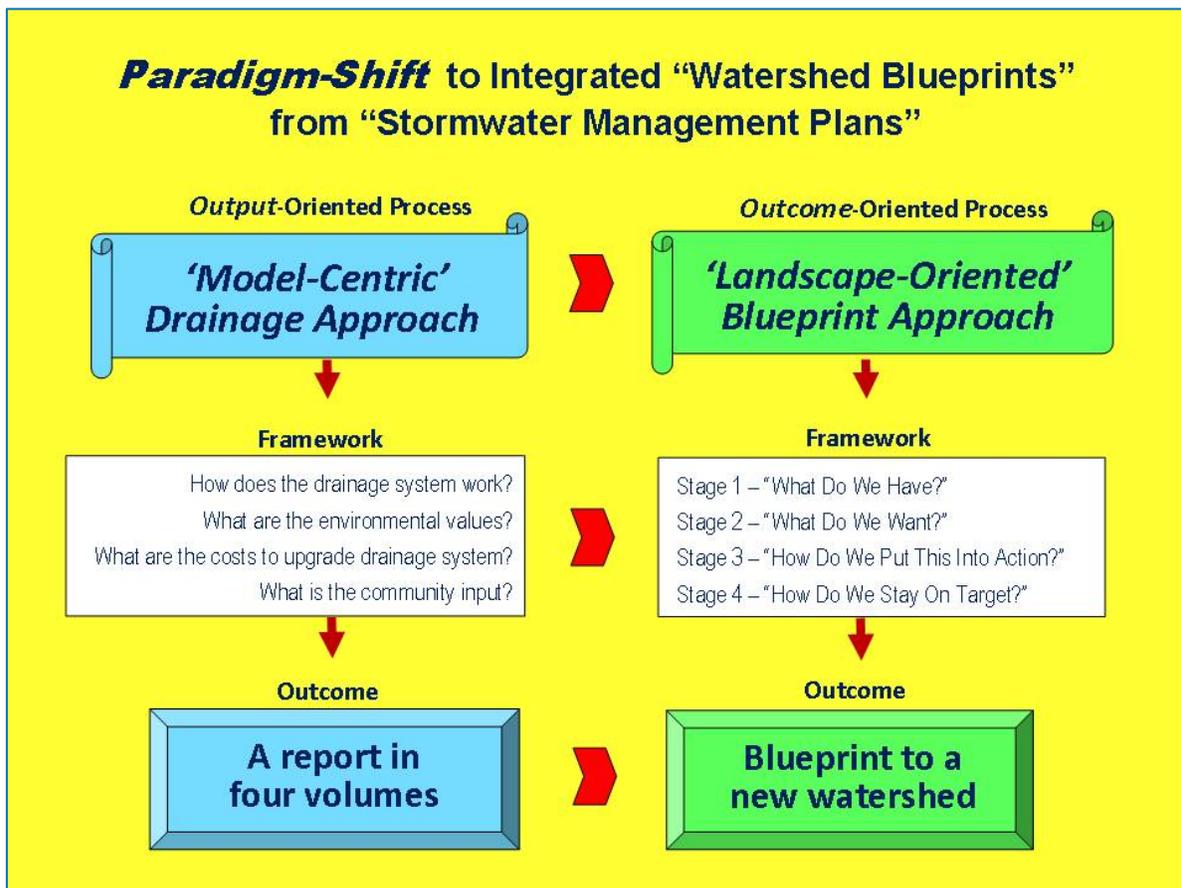
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Hosted by the Capital Regional District on November 29  
and featuring District of North Vancouver case study experience

# Sustainable Rainwater Management: Mimic the Water Balance!

Integrating the Site with the Watershed and the Stream

An Outcome-Oriented Approach to Mimicking the Water Balance  
is Guided by this Way-of-Thinking



# Sustainable Rainwater Management: Mimic the Water Balance!

## Integrating the Site with the Watershed and the Stream

2012 Capital Region Water Balance Model Workshop	
<b>Regulatory Context:</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> “By 2012, all land and water managers will know what makes a stream healthy, and therefore be able to help land and water users factor in new approaches to securing stream health and the full range of stream benefits.” (p. 43 of Living Water Smart, BC’s Water Plan)</li> <li><input type="checkbox"/> “Adapting to climate change and reducing our impact on the environment will be a condition for receiving provincial infrastructure funding.” (p. 63 of Living Water Smart, BC’s Water Plan)</li> </ul>
<b>Abstract:</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> In Metro Vancouver, the Minister of Environment has required that municipalities protect watershed health by connecting the dots between land use planning and on-site rainwater management. The District of North Vancouver’s Hastings Creek Watershed Blueprint illustrates what “integrating the site with the watershed and stream” means; and is a provincial demonstration application for two web-based tools: <b>Water Balance Model Express for Landowners</b>; and <b>Drainage Infrastructure Screening Tool</b>.</li> <li><input type="checkbox"/> The <b>Express</b> can help local governments implement performance targets that link rainfall capture to stream health. The Express is interactive and is an efficient and enjoyable way to rapidly test alternative rainwater control types and sizes. It is no more complex than the dash board of a typical car, stripping the problem down to a few sliders and gauges.</li> <li><input type="checkbox"/> The <b>Drainage Infrastructure Screening Tool</b> can save local governments money because it eliminates expensive and unnecessary modeling of every pipe in a drainage conveyance system, provides relevant information for capital planning and affordable budgets, and assesses system resiliency to accommodate redevelopment and/or climate change.</li> </ul>
<b>Teaching Team:</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Kim A Stephens</b>, M.Eng., P.Eng., Executive Director, Partnership for Water Sustainability</li> <li><input type="checkbox"/> <b>Richard Boase</b>, P.Geo., Environmental Protection Officer, District of North Vancouver</li> <li><input type="checkbox"/> <b>Jim Dumont</b>, P.Eng., Engineering Applications Authority, Water Balance Model Partnership</li> </ul>
Structure for an Interactive Knowledge-Sharing and Training Session	
<b>Part One</b>  <i>What Everyone Should Know</i> (0930 - 1030)  <i>Demonstration Applications</i> (1030 - 1200)	<p><b>Scope:</b> Introduce core concepts that underpin the mantra: “Mimic the Water Balance”. Explain why BC looks at rainfall differently. View through the regulatory, historical and science lenses.</p> <p><b>Educational Objective:</b> <i>Participants will have a common understanding of WHY the Water Balance Methodology and HOW it is being implemented in British Columbia.</i></p> <hr/> <p><b>Scope:</b> Elaborate on how the Hastings Creek Watershed Blueprint will achieve this goal: “<b>After redevelopment, each site will function as it did before, or better!</b>” The Lynn Valley Town Centre redevelopment is the catalyst for early action by the District. The Blueprint is assembling the pieces that will achieve the vision for restoration of watershed function. It is GIS-enabled, interactive, and is already informing operational actions and current as well as future planning.</p> <p><b>Educational Objective:</b> <i>Participants will understand how to establish and implement performance targets for rainfall capture on sites and flow rates in streams</i></p>
<b>Part Two</b> (1300 - 1500)  <i>Online Experience &amp; “Ah-Ha” Reflections</i>	<p><b>Scope:</b> Lead the group step-by-step through application of the WBM Express. Demonstrate how to do scenario comparisons and achieve pre-set performance targets at the SITE scale.</p> <p><b>Educational Objective:</b> <i>Participants will understand the capabilities of the WBM Express and will be able to generate outputs</i></p> <hr/> <p><b>Scope:</b> Share ‘Ah-Ha Moments’ and describe how you will apply what you have learned.</p> <p><b>Educational Objective:</b> <i>Participants will be able to talk knowledgeably about the Express.</i></p>