



# Integrating the Site with the Watershed and the Stream

Course on the “ISMP Course Correction”



November 9-10, 2011

# Integrating the Site with the Watershed and the Stream

Course on the "ISMP Course Correction"

## Acknowledgments



NORTH VANCOUVER  
DISTRICT



Making a difference...together



Bowker  
Creek

URBAN  
WATERSHED  
RENEWAL  
INITIATIVE



METRO  
VANCOUVER



# Integrating the Site with the Watershed and the Stream

---

## Course on the “ISMP Course Correction”

### Preface

---

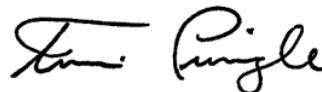
*An ISMP, the acronym for Integrated Stormwater Management Plan, is a potentially powerful tool. It can influence other municipal processes for the better. It can generate the blueprint for truly **integrated and coordinated action** at a watershed scale.*

*The course on the “ISMP Course Correction” is designed for an interdisciplinary audience. It will guide land use, infrastructure and environmental professionals through the stages and steps in developing a **Watershed Blueprint** that is balanced, landscape-based and financially sustainable.*

*Local governments have many competing priorities. Everyone is challenged to do more with less, and get it done. The course will demonstrate the benefits of collaboration, alignment, integration and sharing experience across boundaries.*

*The linkage to infrastructure asset management is a way to (re)focus ISMPs on outcomes: Create a vision of a future watershed complete with intact ecological values, healthy streams, abundant fishery resources, and a functional infrastructure.*

*Participants will learn how they can draw on in-house resources, adapt the ISMP framework that the City of Surrey has developed through experience, apply the Bowker Creek approach (in the Capital Region) to watershed team-building, and embed the vision for a “watershed landscape restoration strategy” in land use planning processes.*

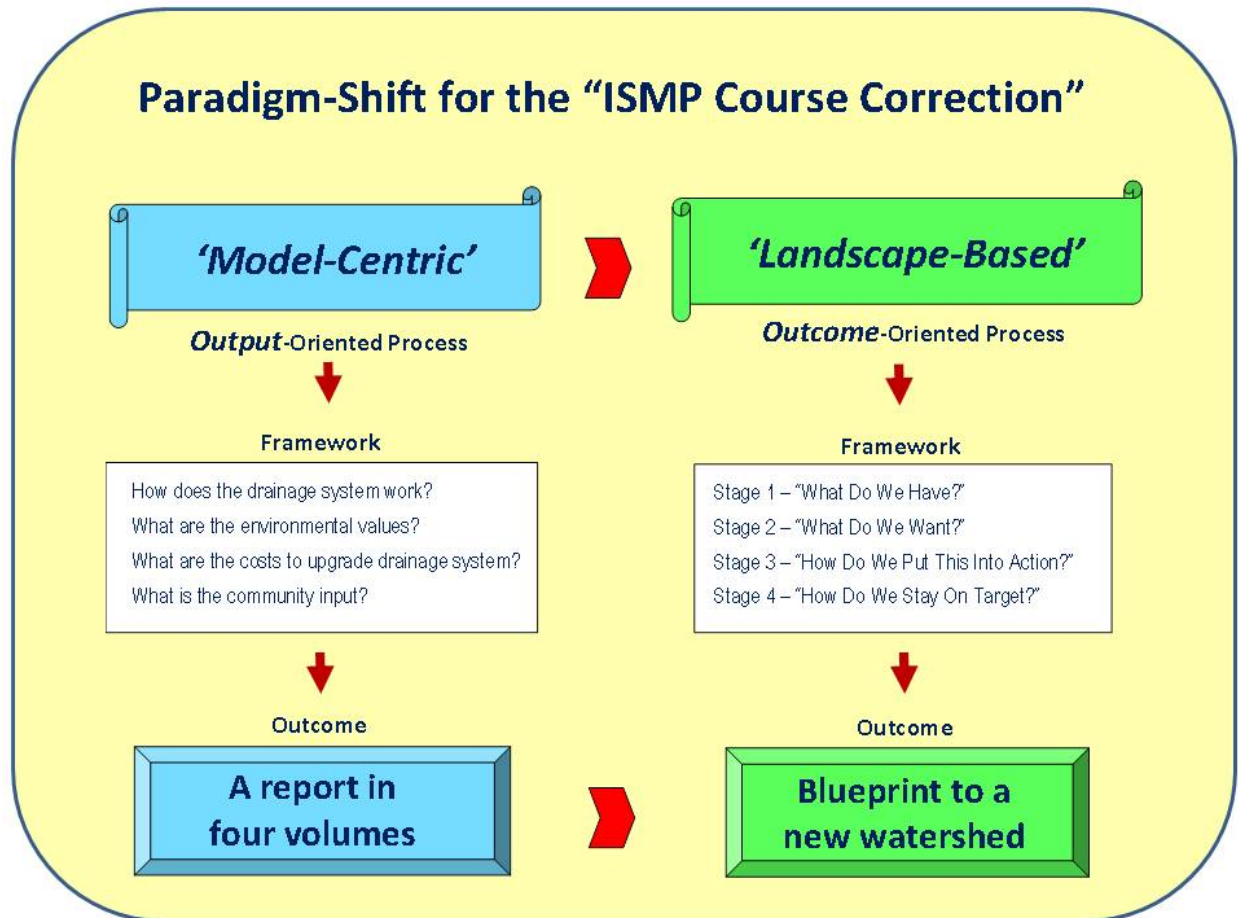


Tim Pringle  
President

Partnership for Water Sustainability  
November 2011

## Integrating the Site with the Watershed and the Stream

Course on the “ISMP Course Correction” – The Paradigm-Shift



### Quotable Quote:

*“The output from a model-centric process is a report that mainly deals with hydrotechnical matters. These go on a shelf when local governments cannot afford to implement them. In contrast, the outcome of a landscape-based and action-oriented process is a truly integrated plan to restore watershed function over time. Agree on the vision. Set the targets. Provide planners with the detail necessary to guide site level decisions as opportunities arise. Then implement.”*

Jody Watson, Chair  
Bowker Creek Initiative  
October 2011

## Integrating the Site with the Watershed and the Stream

### Course on the “ISMP Course Correction” – Curriculum Overview

Time	ISMP Stage No. & Scope	Theme for Course Correction Module	Learning Outcomes
<b>DAY 1 – BUILD THE VISION</b>			
0830 - 1000	<b>“Sustainable Service Delivery”</b>	<b>A</b> Integrate Watershed-Based Planning, Ecological Health and ‘Infrastructure Liability’	Participants will understand the genesis and regulatory context for ISMPs; and why integration of land use planning and infrastructure asset management is necessary and enabled.
1030 - 1200	<b>1 “What Do We Have?”</b> <i>(Information and Data Collection)</i>	<b>B</b> Frame Watershed Problems and Opportunities	Participants will understand why it is important to ask the right questions, go on a watershed walkabout, frame the issues, tap into local knowledge, and focus on what is most relevant.
1300 - 1500	<b>2 “What Do We Want?”</b> <i>(Vision for Future Development)</i>	<b>C</b> Focus on Stream Health and Watershed Outcomes	Participants will understand the science driving the paradigm-shift from <i>STORMwater</i> to <i>RAINwater management</i> ; and how application of 10 guiding principles will lead to success.
1530 - 1630		<b>D</b> Capitalize on Green Infrastructure Opportunities to ‘Design with Nature’	Participants will understand why ‘designing with nature’ is key to climate change adaptation, and how to make a difference at multiple scales: “ <i>What I can do for the watershed</i> ”.
<b>DAY 2 – CREATE THE LEGACY</b>			
0830 - 1000	<b>3 “How Do We Put This Into Action?”</b> <i>(Implementation Plan, Funding and Enforcement Strategies)</i>	<b>E</b> Apply a Knowledge-Based Approach to Focus on Solutions and Outcomes	Participants will understand what <i>Shared Responsibility</i> means; and how to bring people together, learn from each other, and align efforts to implement effective green infrastructure.
1030 - 1230		<b>F</b> Move to a Levels-of-Protection Approach to Sustainable Service Delivery	Participants will understand when and how to apply models and screening tools; and how to establish watershed-specific targets and then implement at the development scale.
1330 - 1500		<b>G</b> Create a Blueprint to Implement the Watershed Vision	Participants will understand how to integrate drainage, land use, environment and social information; and how to create bite-size pieces that facilitate incremental implementation.
1530 - 1630	<b>4 “How Do We Stay on Target?”</b> <i>(Monitoring and Assessment Plan)</i>	<b>H</b> Define Adaptive Management Rules, Roles and Responsibilities	Participants will understand the role of effectiveness monitoring, and why Adaptive Management means “ <i>we change direction when the science leads us to a better way</i> ”.

## Integrating the Site with the Watershed and the Stream

Course on the “ISMP Course Correction” – Inter-Governmental Teaching Team



Kim Stephens  
Executive Director  
Partnership for Water Sustainability



Carrie Baron  
Manager, Drainage & Environment  
City of Surrey



Richard Boase  
Environmental Protection Officer  
District of North Vancouver



Jody Watson  
Harbours & Watersheds Coordinator  
Capital Regional District



Jim Dumont  
Engineering Applications Authority  
Water Balance Model Partnership



John McMahon  
Manager, Road & Utilities  
District of West Vancouver



Glen Brown  
Executive Director &  
Inspector of Municipalities  
Province of British Columbia



Deborah Carlson  
Staff Counsel  
West Coast Environmental Law