

### **Building a Vision & Creating a Legacy**

- Issue: How We Manage Population Growth
- Impact: Growth Resulting in Urban Densification (Land Constraints; Smaller Lots)
- Sustainability: Means Design with Nature
- Built Environment: We Can Improve It
- Natural Environment: We Can Protect It
- Cumulative Benefits: Accrue Over Time
- Outcome: Sustain Community Livability





#### Returning Users

Username		
Password		
	Log In!	

#### Is this your first visit to the model?

You will have to register in order to create model scenarios. There is only one option during our public beta testing period:

1. Register a (free) "trial" account. As a trial account registrant you are free to access all model features, however your account and any scenarios you've created will be deleted 7 days from the time you register.

Following the end of the beta period, scenarios created by subscribers or members of subscribing groups will remain in the database permanently.

Create a New Account



Integrating the Site with the Watershed and the Stream...

integrate good land us planning and innovative engineering designs

CANADA

1. Getting Started

2. Background Science

Microsoft Po.



















- □ Part Two Where We Are Going:

  Vancouver Island & CAVI



Visualize What We Want Vancouver Island to Look Like in 50 years

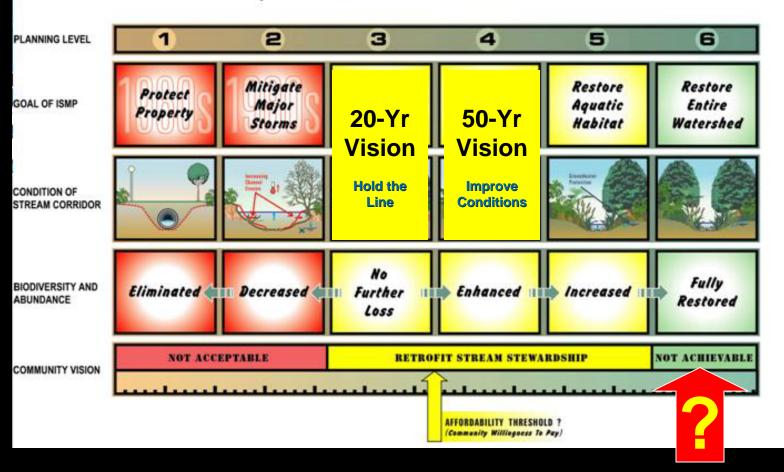
## "What the cell is to the body, the site is to the region"

Patrick Condon, 1998 University of British Columbia

### What we believed to be 'unachievable' in 1998 may in fact now be within our grasp

ALTERNATIVE VISIONS FOR THE LONG-TERM ENVIRONMENTAL HEALTH OF STREAM CORRIDORS

Conceptual Framwork for Selection of ISMP Level



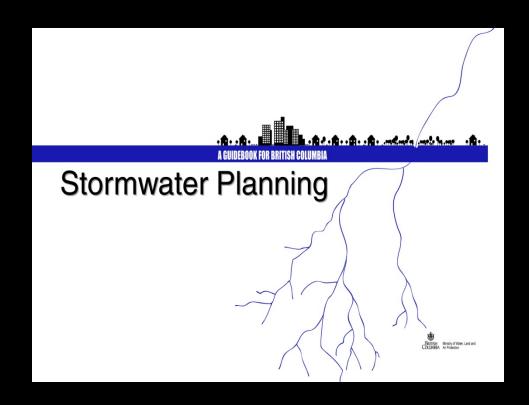


- How water is used
  - → sustainability of supply

- How water runs off the land
  - → sustainability of terrestrial and aquatic habitat

...so, mimic the natural environment!

# Published in 2002, the Guidebook is outcome-oriented; this sets it apart from output-oriented approaches



Create livable communities; protect stream health!

Released in 2007,
Beyond the Guidebook
incorporates lessons
learned since 2002,
and picks up where
others left off previously

Water Sustainability Action Plan for British Columbia

Beyond the Guidebook:

Context for Rainwater Management and Green Infrastructure in British Columbia



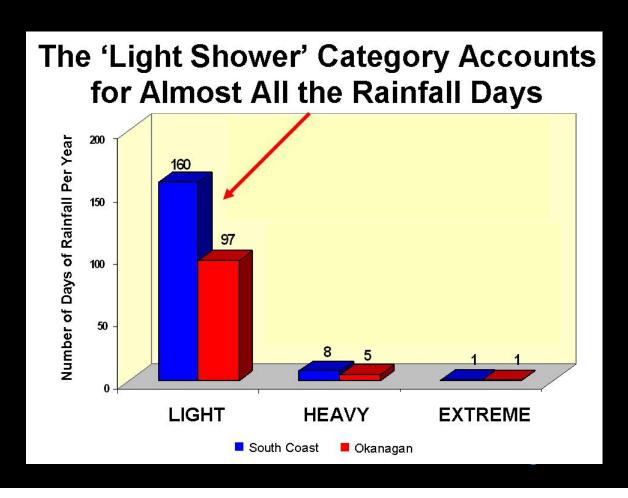


Create livable communities; protect stream health!

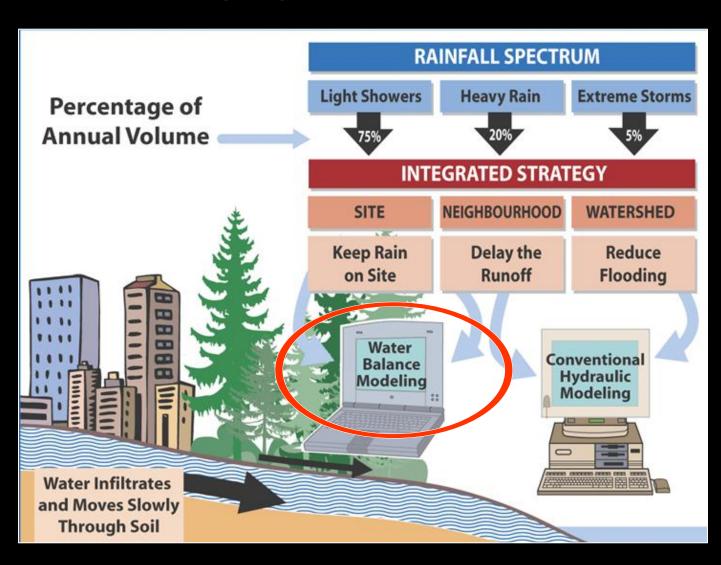
# The Guidebook Premise - Land Development and Watershed Protection can be Compatible – represented a radical shift in thinking in 2002

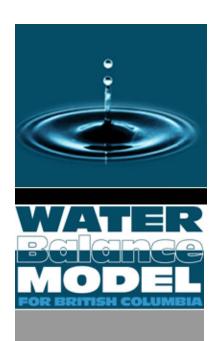


We went back to basics, and when we developed the concept of a Rainfall Spectrum, this helped overcome fear and doubt....by showing that it is possible to prevent rainwater runoff



# The understanding of rainfall patterns resulted in the next decision tool: the Integrated Strategy for Managing Rainfall Spectrum

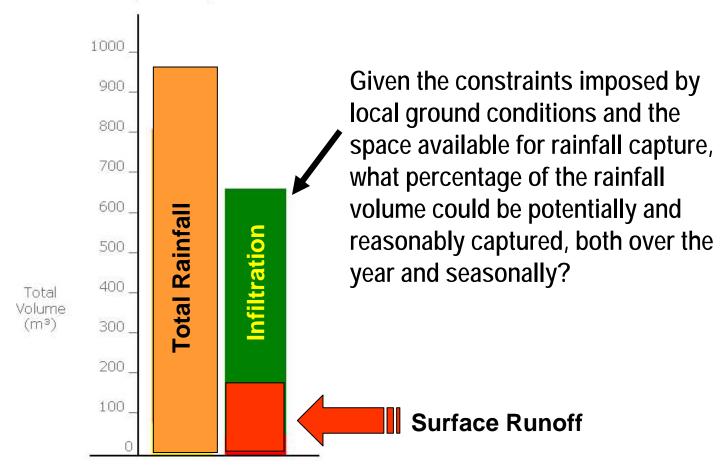




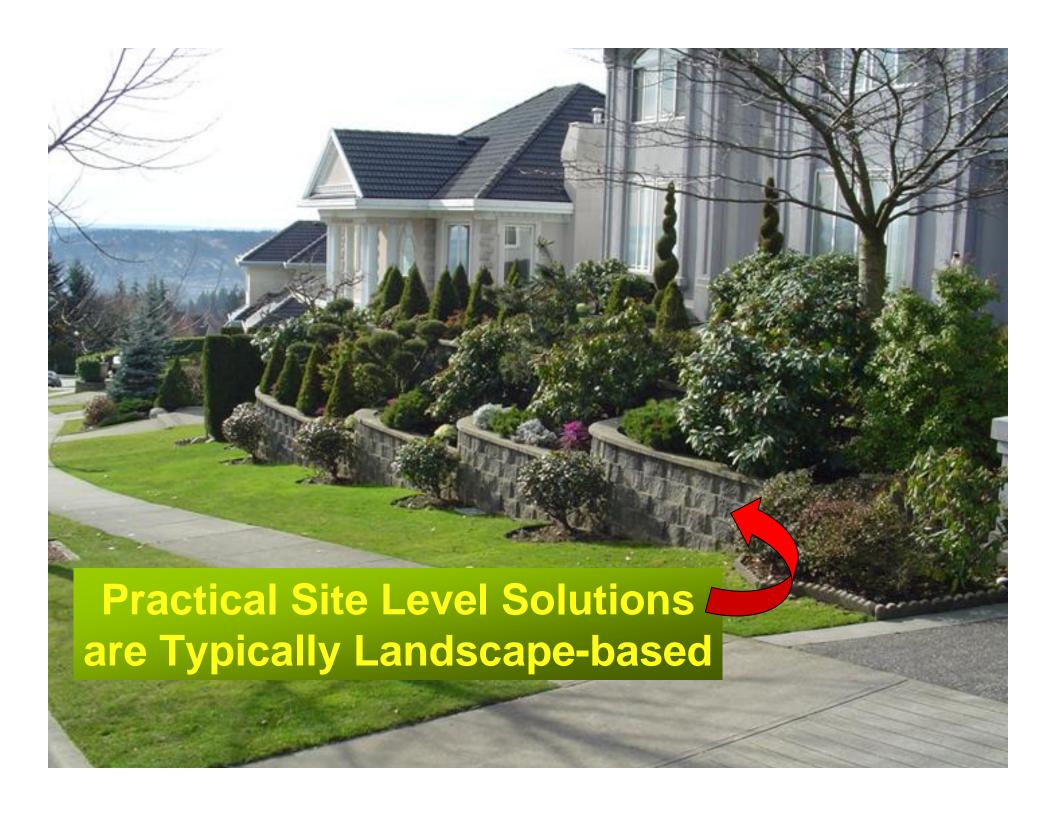
# We developed the Water Balance Model so that users could test the achievability of Performance Targets

#### **Water Balance Volumes For Catchment**

Graph for the period Jan 1 1999 to Dec 31 1999



<u>www.waterbalance.ca</u>



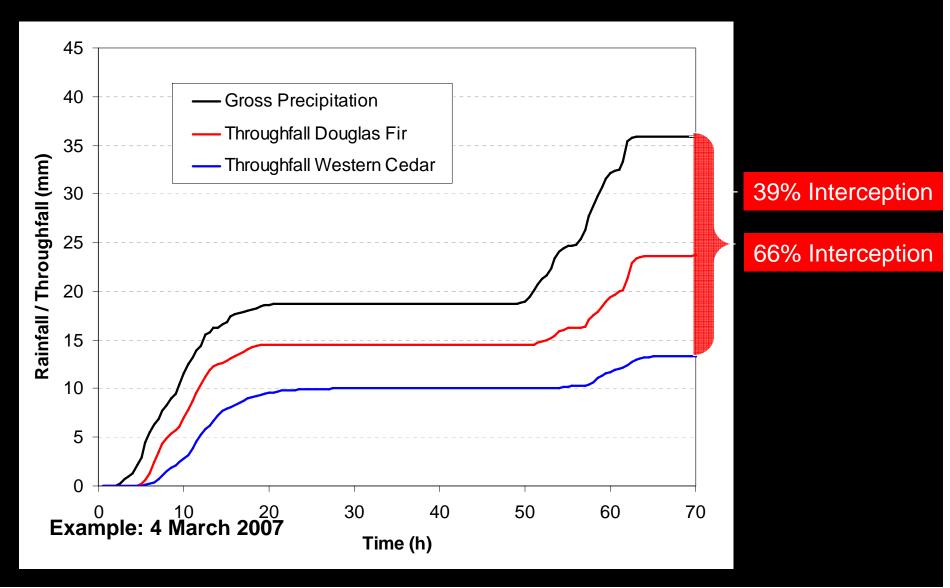


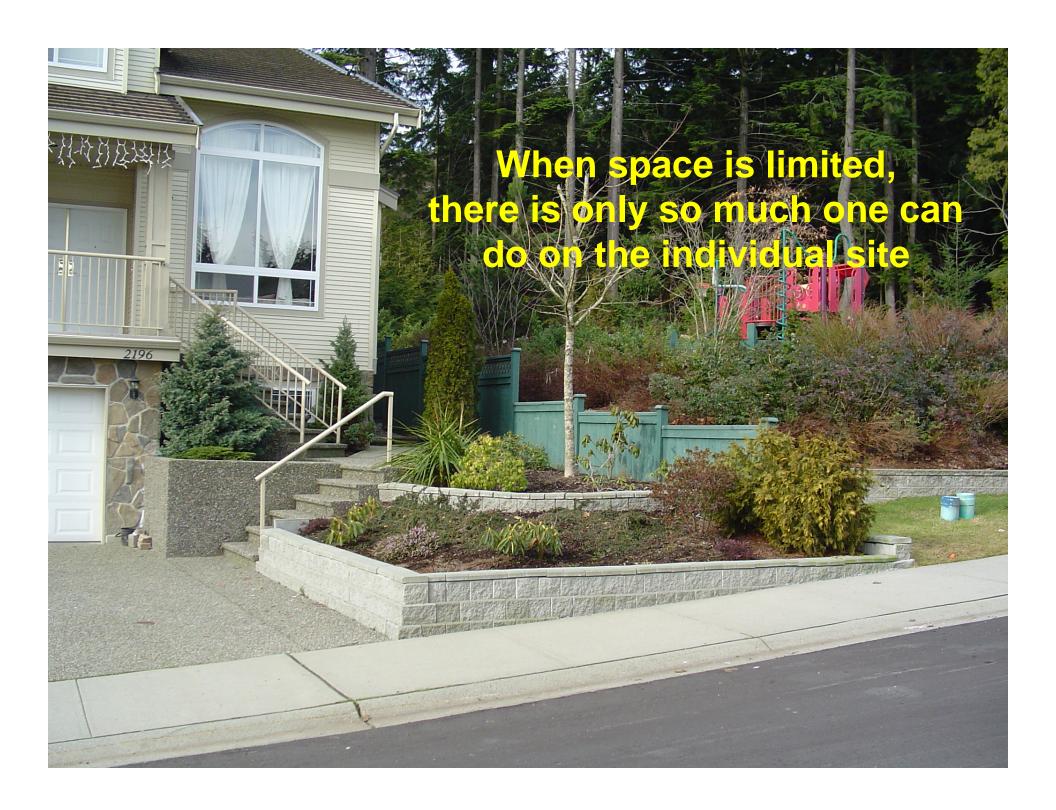
### The UBC Urban Forest Research Project is precedent-setting because...



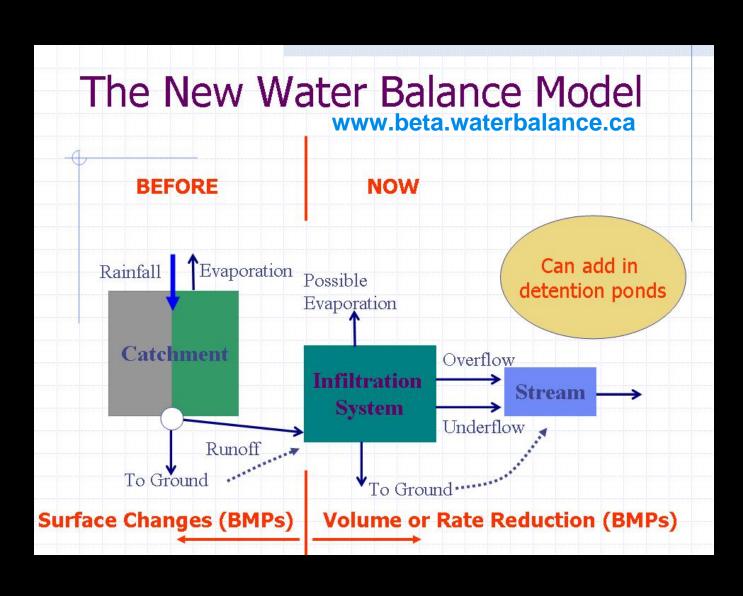
...it is quantifying the proportion of rainfall intercepted by the tree canopy in an urban forest

## The proportion of rainfall intercepted by a single tree can be substantial

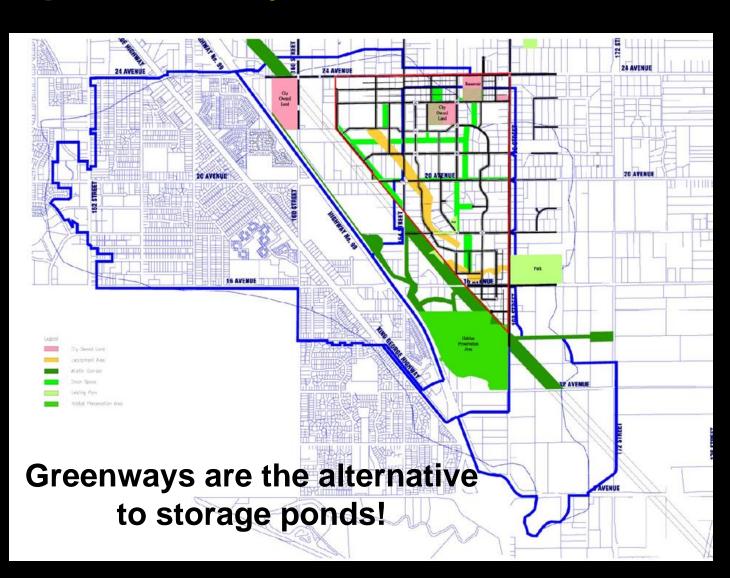




### Integrating the site with the watershed and the stream to influence the greening of the environment



### Fergus Creek in the City of Surrey is the pilot for Beyond the Guidebook







## "Today's expectations are the standards of tomorrow."











- ☑ Part Two Where We Are Going:

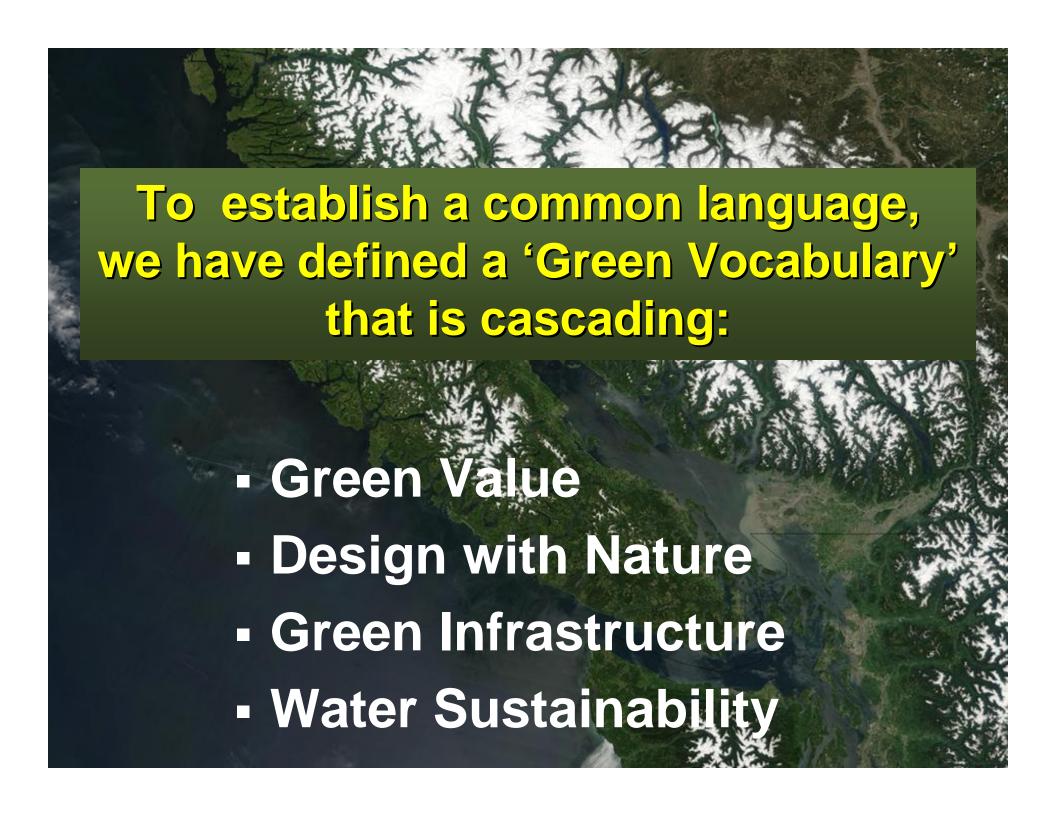
  Vancouver Island & CAVI



### What Does CAVI Do?

CAVI brings together those who plan and regulate (local government), those who build (developers) and those who provide the legislative framework (the Province).

CAVI provides support to organizations with a focus on water sustainability, and helps them develop and share their ideas and successes so that others can see how they too can get on board.







- Develop compact, complete communities
- Increase transportation options
- Reduce the loads on water, waste and energy systems
- Protect and restore urban 'green' space
- Strive for a lighter 'hydrologic footprint'
- Achieve higher levels of receiving water protection

## In Year One, We Exceeded Our Own Expectations

June 2007:

Launched the Creating Our Future program as an adjunct to Gaining Ground Summit

September /October 2007:

Organized the Showcasing Green Infrastructure Innovation Series

December 2007:

Collaborated with Elected Reps to host the Green Infrastructure Leadership Forum

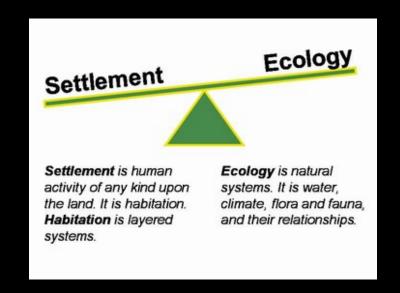


76-72-70

- Comox Valley Connecting to Sustainability
- Nanaimo RegionDesigning with Nature
- Cowichan Valley
   Partnerships & Collaboration –
   moving from Concept to Reality

#### 2007 Green Infrastructure Leadership Forum

### Co-hosted by CAVI and the Vancouver Island Association of Coastal Communities.....



.....the Forum initiated a conversation about A Positive Settlement Strategy

#### In 2008, program elements for The New Business As Usual include...

- Beyond the Guidebook:
   Create Liveable Communities & Protect Stream Health
- Catalogue of Green Value Practices: Taking actions on the ground that add up to A Positive Settlement Strategy
- Green Value Workshops for Land Owners & Developers
- Showcasing Green Infrastructure Innovation in the Capital Region
- Climate Change Workshop:
   Risk Management & Sustainable Infrastructure

#### And in conclusion....

"And finally, we still need to remember that it is not solely wisely developed or green urban infrastructure but human behaviour which ultimately determines our sustainability"

Peter Andzans
Manager, Community Sustainability
City of Abbotsford
January 2008