

Water Sustainability in the South Okanagan

- **PART 1 – CONTEXT PRESENTATIONS**

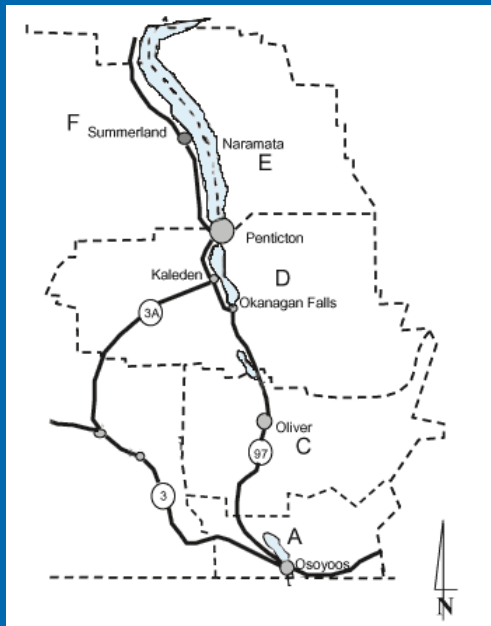
- ☑ Partnerships, Partnerships, Partnerships
- ☑ Communities in Transition
- ☑ Regional Growth Strategy

- **PART 2 – “A MINI-SUMMIT”**

Water for Life and Livelihoods:
Protecting the Agricultural Legacy and
Strengthening Communities



The ACTION in Convening for Action: Partners in Water Stewardship and Sustainability in the South Okanagan



Water Sustainability in the South Okanagan
BCWWA Whistler Conference, May 2006

Erik Karlsen & Raymond Fung,
Water Sustainability Committee of the BC Water & Waste Association



The ACTION in Convening for Action

- Water Sustainability
Action Plan for BC**
- Convening for Action**
- Action Plan Partnerships**

The Water Sustainability Committee is a roundtable of:

- Government agencies and crown corporations – municipal, regional, provincial and federal
- Non-governmental organizations – such as Smart Growth on the Ground, the Rivershed Society
- Academia – University of British Columbia
- The private sector – for example, Terasen

**...and has project partnerships with a
diverse group of organizations –
for example, the Real Estate Foundation &
Master Municipal Construction Documents Association**

Vision

Stewardship of a limited and vital resource, water, actively supported by an aware and enlightened citizenry

The Water Sustainability Action Plan for BC....

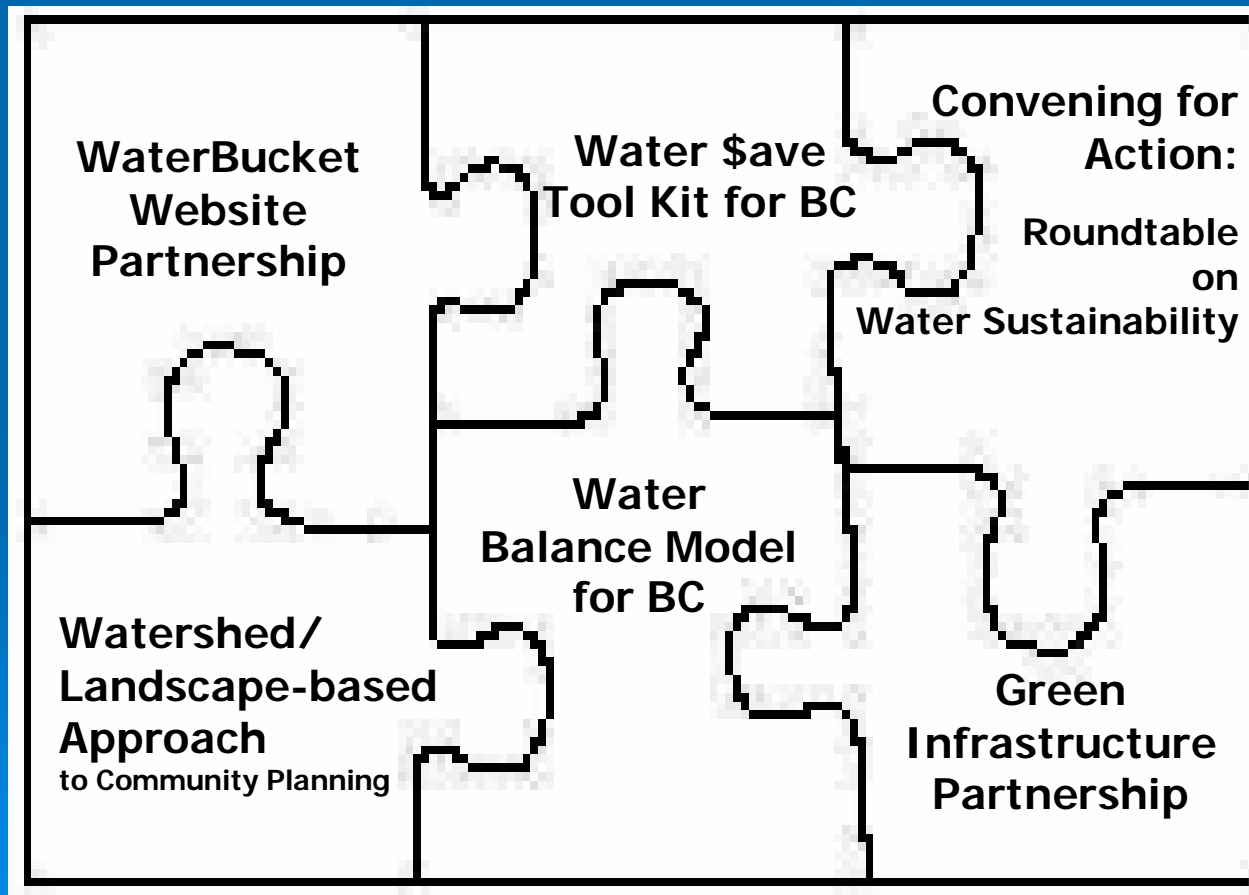


... provides a partnership umbrella for
an array of *on-the-ground* initiatives that promote
a 'water-centric' approach to community planning



BCWWA
British Columbia Water
& Waste Association

is partnering with the Province to deliver the Action Plan



Change is being advanced through these partnerships:



- **Convening for Action**
- **Water Bucket Website Partnership**
- **Water Balance Model Partnership**
- **Green Infrastructure Partnership**



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Building on Case Study Experience: Convening for Action in the South Okanagan

- Water-Centric Planning:
A Guidebook for British Columbia
- South Okanagan
Regional Growth Strategy
- Convening for Action
in the South Okanagan
- Town of Oliver:
Smart Growth on the Ground



When 'convening for action', we build capacity through a 3-step process:

1. Challenge practitioners and others to step back from existing paradigms
2. Inform them regarding alternatives
3. Provide tools & experience to do differently

"To Make Change Happen, It Has to Happen on the Ground"

- Ted van der Gulik, Ministry of Agriculture & Lands, 2005

Water-Centric Planning means....

...we will plan with a view to water
– whether we are planning
for a site, a region, or the Province

Water OUT = Water IN



Water Stewardship and Action

- *Ways* - thinking, planning and acting together as stewards of water, committed to sustainability.
- *Means* - landscape/watershed based assessments, strategic plans and results-focused partnered delivery.
- *Results* - available, affordable, clean water

Decision focused

- ***Applies a unifying philosophy***

Basin, watershed/landscape-based water management practices.

- ***Uses a pragmatic approach***

Compares source, consumption and run-off volumes based on different management strategies.

- ***Decision support tools***

Water Balance Model, Water Conservation Calculator, and Water/energy Nexus Calculator

Decision-making context: Interests, Roles and Responsibilities

	Enabling and Supporting Action	Informing Action	Providing Strategic Direction	Taking Action	Adaptive Responses
	Legislation, Tenure and Investment	Science, Technical, Traditional, and Community Knowledge	Visions, Goals, and Objectives	Policies, Programs, Projects and Practices	Monitoring and Reporting
Basin					
Watersheds					
Site					



The ACTION in Convening for Action

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***waterbucket.ca* is a resource-rich 'destination location' for timely and provocative information**

The screenshot shows the website's navigation and content sections. At the top, there are links for Home, Partners, Contact Us, and About This Site. Below this is a 'Visit these Communities of Interest' menu with items like Water Centric Planning, Water Use and Conservation, Rainwater Management, Green Infrastructure, Agriculture and Water, Convening for Action, and Water Sustainability Committee. To the right is a 'Latest Updates' section with several article teasers, including 'Irrigation Scheduling Calculator', 'Water Balance Model', 'POLIS Project report goes beyond the urban environment...', 'WATER SUSTAINABILITY ACTION PLAN FOR BRITISH COLUMBIA', 'Lantzville introduces low-impact development bylaw', and 'BRITISH COLUMBIA MUNICIPALITIES LEAD THE WAY WITH ECO-SENSITIVE STREETS'. At the bottom left is the 'waterbucket' logo with the tagline 'Sustainable Approaches to Water Resources'. At the bottom right is a mission statement: 'The vision of waterbucket.ca is to provide a resource-rich, highly interactive 'destination location' for timely and provocative information about water sustainability in British Columbia.'

Home | Partners | Contact Us | About This Site

Visit these Communities of Interest

- Water Centric Planning
- Water Use and Conservation
- Rainwater Management
- Green Infrastructure
- Agriculture and Water
- Convening for Action
- Water Sustainability Committee

Latest Updates

Irrigation Scheduling Calculator
Read more at Agriculture and Water

Water Balance Model
Read more at Agriculture and Water

POLIS Project report goes beyond the urban environment, addressing specific issues of governance
Read more at Convening for Action

WATER SUSTAINABILITY ACTION PLAN FOR BRITISH COLUMBIA
Read more at Convening for Action

Lantzville introduces low-impact development bylaw
Read more at Green Infrastructure

BRITISH COLUMBIA MUNICIPALITIES LEAD THE WAY WITH ECO-SENSITIVE STREETS

waterbucket
Sustainable Approaches to Water Resources

The vision of waterbucket.ca is to provide a resource-rich, highly interactive 'destination location' for timely and provocative information about water sustainability in British Columbia.

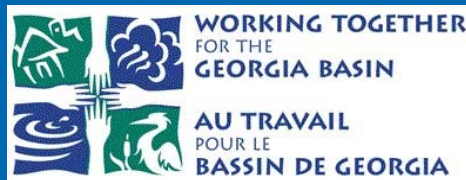
waterbucket.ca has seven “Communities-of-Interest”

The image displays seven overlapping screenshots of the waterbucket.ca website, each representing a different 'Community of Interest'. The screenshots are arranged in a grid-like fashion, with some overlapping others. Each screenshot shows the website's header, navigation menu, and main content area. The communities of interest are:

- AGRICULTURE & WATER**: Features a search bar and navigation links for Water Management, Drought, Water Use, Water Stewardship, and Resources.
- WATER SUSTAINABILITY COMMITTEE**: Includes a search bar and navigation links for Water Management, Drought, Water Use, Water Stewardship, and Resources.
- WATER USE & CONSERVATION**: Includes a search bar and navigation links for Water Management, Drought, Water Use, Water Stewardship, and Resources.
- GREEN INFRASTRUCTURE**: Includes a search bar and navigation links for Design With Nature, Outreach & Training, Construction Details, and Resources.
- CONVENING FOR ACTION**: Includes a search bar and navigation links for Understanding Water Supply, Limiting Water Demand, Watershed / Ecological, Upstream / Downstream, and Resources.
- RAINWATER MANAGEMENT**: Includes a search bar and navigation links for Turning Ideas into Action, On the Ground Changes, Resources, and Networking.
- WATER CENTRIC PLANNING**: Includes a search bar and navigation links for Understanding Water Supply, Limiting Water Demand, Watershed / Ecological, Upstream / Downstream, and Resources.

Each screenshot also shows a sidebar with a 'Partners' section listing the British Columbia Ministry of Environment and a 'Which of the following databases do you find most useful?' section with radio buttons for Web Links, Success Stories, and Publications. The background of the entire image is a blue gradient with a large, faint water ripple graphic.

WaterBucket partners



Environnement
Canada

Environment
Canada




Partners



City of Chilliwack

Visit
City of Chilliwack



TRY THE MODEL

1. Enter the area of your site, add existing soil conditions, and land use information.
2. Create a graph of rainwater volume summaries and see how well your site performs.
3. Add a Green Roof or a Rain Garden or similar rainwater source control and compare before and after results.

Organizations +

Recent Additions...

[British Columbia Ground Water Association](#)

[Canadian Water Resources Association](#)
The Canadian Water Resources Association is a national organization of individuals and organizations interested in the management of Canada's water resources. The membership of the Association is composed of private and public sector water resource professionals including managers, administrators, scientists, academics, students and users. It has branch organizations in eight provinces and members throughout Canada and beyond.

[Watershed Report Card](#)

Key Message:
Anybody with a computer and internet connection can access the model

Events

Jun 2005

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Add an event

primary purpose is to provide province-wide guidelines for the maintenance of environmental valuesMore

www.waterbalance.ca

Poll

A poll is not available

Adapting the Australian Experience



WSUD:
 BASIC PROCEDURES FOR
 'SOURCE CONTROL' OF STORMWATER



WATER Balance MODEL FOR BRITISH COLUMBIA



IGP Partners



Greater
Vancouver
Regional
District



WORKING TOGETHER
FOR THE
GEORGIA BASIN
AU TRAVAIL
POUR LE
BASSIN DE GEORGIA



SURREY
CITY OF PARKS

westvancouver
THE WATERFRONT COMMUNITY

CITY OF
COQUITLAM



BRITISH
COLUMBIA



BCWWA
British Columbia Water
& Waste Association



CMHC SCHL
HOME TO CANADIANS



Township of
Langley



City of Chilliwack

the
city
of NORTH VANCOUVER



CITY OF
Abbotsford

Est. 1873



DISTRICT OF
HIGHLANDS



Environment
Canada
Environnement
Canada
Fisheries and Oceans
Canada
Pêches et Océans
Canada



THE REAL ESTATE
FOUNDATION
OF BRITISH COLUMBIA

MAPLE RIDGE
Incorporated 12 September, 1874



CITY OF VANCOUVER

UDI
URBAN DEVELOPMENT INSTITUTE
pacific region



WATER
Balance
MODEL
FOR BRITISH COLUMBIA

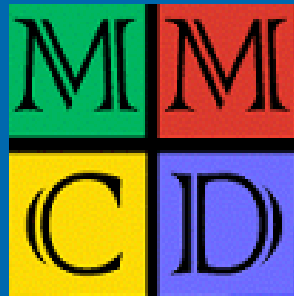
Inter-Governmental Partnership: Vision

To promote changes in land development practices so that:

- The built environment will preserve and/or restore the natural water balance over time
- Performance targets will be achieved for rainwater runoff volume and flow rate reduction at the source, *where rain falls*

Water Balance Model promotes Integration of Perspectives


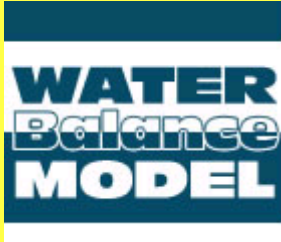
- **Planners:** Tool for Better Use of Space
- **Engineers:** Tool for Pre-Design
- **Landscape Architects:** Tool for Green Solutions
- **Ecologists:** Tool for Watershed Function
- **Educators:** Tool for Social Marketing



Green Infrastructure Partnership

The Green Infrastructure Partnership is educating stakeholders regarding 'Design with Nature

Outreach & Continuing Education Program (OCEP)

	Project Tours	Communication Guide for Elected Officials	Guide to Green Infrastructure Standards	
Speaker Series	Workshop Roadshow	Communication Guide for Senior Managers	Green Infrastructure Standards	Streamlined Environmental Approvals Protocol

By 'Design with Nature', we mean...



- **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 stream, wet land and lake protection**

In Conclusion:

Okanagan Lake

Kelowna

Active
Burning

**Drought, Forest Fires and Floods
Have Created a
'Teachable Moment' for Change**

Burn Scar

