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Beyond the Guidebook: Designing with Nature to Create Liveable Communities that Protect Stream Health

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&

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Outline

1. Education

- Vancouver Island Coordinating Team (VICT)
- Beyond the Guidebook
- Water Balance Model powered by QUALHYMO

2. Financial Incentives

- \$ for planning
- \$ for capital
- \$ for recognition



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Ministry of Community Services

RAINwater Management: WHY MCS?

- **Mandate:** To promote sustainable, livable communities.
- **Local Government Department:**
 - Infrastructure Funding
 - Community Planning (OCP, RGS)
 - *Local Government Act*
 - *Community Charter*



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Vancouver Island Coordinating Team

- Mission: To facilitate a consistent, science-based approach to rainwater management on Vancouver Island.
- Objective: Align efforts to advance the state-of-the-practice in rainwater management.
- Implementation is keyed to use of the **Water Balance Model**
- Team includes representatives from:
 - 3 Provincial Ministries (MoE, MAL, MCS)
 - DFO
 - First Nations
 - Local Government

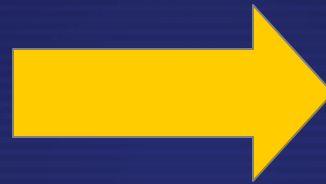


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Protecting Stream Health

**Traditional
Stormwater
Management**



**Integrated
Rainwater
Management**





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Water Sustainability Action Plan
for British Columbia



Beyond the Guidebook:
Context for Rainwater Management
and Green Infrastructure
in British Columbia

June 2007



Fisheries and Oceans
Canada

Pêches et Océans
Canada



Stor





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Because local government exerts control over rainwater runoff volume through its policies, practices and standards...we will be rolling out



...a runoff-based tool that enables correlation of runoff volume management with stream health



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What is QUALHYMO?

- A rainfall-runoff model developed by Dr. Charles Rowney for the Ontario Ministry of Environment in the 1980s
- The tool of choice by experts in Ontario and Alberta



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Water Balance Model + QUALHYMO =

- Integrating the **site** with the **watershed** and the **stream**
- Now, users will be able test alternative scenarios during planning in a watershed



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What's Coming Next?

- **Jan 2008:** signing of MOU for Inter-Provincial Partnership with Alberta and Ontario
- **Feb 2008:** WBM Partners Forum
- **March 2008:** Cowichan Valley WBM Workshop
- **Fall 2008?:** Nanaimo WBM Workshop



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2. FINANCIAL INCENTIVES

PLANNING:

Infrastructure Planning Grants

CONSTRUCTION:

Capital Grant Programs

- Towns for Tomorrow
- Gas Tax Agreement
- Building Canada Fund

RECOGNITION:

Green City Awards





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Infrastructure Planning Grant Program

- Grants up to \$10,000 to support infrastructure plans and studies.
- Purpose: To assist local governments in developing sustainable infrastructure.



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Successful Applications Look Like...

Burnaby:	<u>Integrated Stormwater Management Plan</u>
Cumberland:	<u>Low Impact Development Planning</u>
Tofino:	<u>Low Impact Engineering Specifications</u>
North Van.:	<u>Tree Canopy Interception Research</u>
Saanich:	<u>Integrated Stormwater Management Plan</u>
Port McNeil:	<u>Low Impact Residential Development</u>
Kamloops:	<u>Low Impact Development DCC</u>





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Capital Grant Programs

Capital Grant Programs typically support applications that:

- **Minimize hydrological footprint**
- **Use integrated rainwater management**
- **Reduce water supply demand e.g. greywater reuse,**
- **Incorporate low impact development**
- **Support provincial plans, goals and guidelines**
- **Generate transferable knowledge**



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Towns for Tomorrow

- For municipalities with a population under 5,000
- The program supports projects that:
 - **Advance sustainable planning, design, construction and management**
 - **Promote innovative approaches**
 - **Produce environmental benefits**
- Applications are now being accepted for 2008

www.townsfortomorrow.gov.bc.ca



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Federal Gas Tax Agreement

- Funds up to 100% of project costs
- Purpose is to help achieve:
 - **Cleaner Water**
 - **Cleaner Air**
 - **Reduced Greenhouse Gas Emission**





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Success in View Royal

\$7.4 MILLION for an innovative rainwater management project
and to improve roadworks



Designing with
Nature →



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Success in the Capital Regional District

\$296,000 for installation of a 630 m² green roof.





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Building Canada Fund

- November 6, 2007: BC becomes the 1st province to sign an agreement under the *Building Canada Fund*
- Agreement provides more funding over a longer period of time than any previous federal infrastructure initiative.
- *Building Canada* is focused on supporting national priorities such as a **cleaner water**
- More details to come





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Leveraging Change

TODAY: Program guides “provide direction”. Ranking criteria supports green projects

TOMORROW: Grant conditions used to bring some recipients up to a certain “green” standard

DOWN THE ROAD: Meeting a “green” standard will be a requirement for grant eligibility



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RECOGNITION: **Green City Awards**

- \$500,000 a year awarded to local governments
- Awarded to BC's most **SUSTAINABLE** communities





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“Today’s expectations are the standards of tomorrow.”

