The Green Shores Program

Presented by DG Blair

www.stewardshipcentrebc.ca
SCBC MISSION

“To strengthen ecological stewardship in BC by providing technical, educational and capacity resources and fostering partnerships among organizations, groups, governments and the private sector.”

SCBC is dedicated to information exchange, networking, communication and outreach.
SCBC Resources & Outreach

- Stewardship Series of Publications
- Technical Tools for Stewardship Practitioners
  ~ Species @ Risk Primer
  www.speciesatrisk.bc.ca
  ~ Green Shores (TM) Coastal Development Rating System
  ~ Green Shores for Homes (rating + cross border pilots)
- Organizational Development
  ~ Stewardship Works
  ~ Benchmarking – Organizational Performance
GREEN SHORES PROGRAM

Stewardship Centre for BC

• Coordination

• SCBC Green Shores Committee (volunteer)

• GS Technical Advisory Team (volunteer)

• GS Evaluation Advisory Committee (volunteer)
WE ALL LOVE THE SHORELINE
SHORELINE HARDENING
Concrete or piled seawall

Future scour will occur here

Natural Boundary

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CAN GREEN SHORES HELP WITH CC ADAPTATION?
Promotes sustainable use of shoreline ecosystems through planning and design that:

- Preserves the integrity of shoreline processes.
- Maintains habitat diversity and function.
- Avoids pollutants to the aquatic environment.
- Reduces cumulative impacts to the shoreline environment.
SHORELINE ISSUES

- Poor site planning
- Riparian vegetation removal
- Shoreline hardening
Beach Nourishment/Replenishment
- for sites with sediment shores
Green Shores Program

• Rating Systems – marine & freshwater
• Site Assessment Tools, Services & Training
• Design Examples
• Incentives
• Bylaw Language
• Public and Professional Outreach
• Certification

www.greenshores.ca
COASTAL DEVELOPMENT RATING SYSTEM

- Voluntary credit rating system to “accelerate adoption of sustainable development practices.”

Modelled after *LEED™ Green Building certification system (*Leadership in Energy and Environmental Design)

- Targets large residential/commercial developments, parks and recreational sites

- Promotes greater setbacks, soft-shore approaches and riparian vegetation buffers
## Green Shores Credits

<table>
<thead>
<tr>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>Prerequisite 1</td>
<td>Siting of Permanent Structures</td>
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<td>Prerequisite 2</td>
<td>Conservation of Critical or Sensitive Habitats</td>
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<td>Prerequisite 3</td>
<td>Riparian Zone Protection</td>
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<td>Prerequisite 4</td>
<td>Conservation of Coastal Sediment Processes</td>
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<td>Prerequisite 5</td>
<td>On-Site Environmental Management Plan</td>
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<tr>
<th>Credits</th>
<th>Description</th>
<th>Points</th>
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<tr>
<td>Credit 1</td>
<td>Site Design with Conservation of Shore Zone</td>
<td>1 to 3 points</td>
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<tr>
<td>Credit 2</td>
<td>Shore Friendly Public Access</td>
<td>1 point</td>
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<tr>
<td>Credit 3</td>
<td>Re-Development of Contaminated Sites</td>
<td>1 point</td>
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<tr>
<td>Credit 4</td>
<td>Climate Change Adaptation Plan</td>
<td>1 to 5 points</td>
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<td>Credit 5</td>
<td>Rehabilitation of Coastal Habitats</td>
<td>0.5 to 4 points</td>
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<tr>
<td>Credit 6</td>
<td>Rehabilitation of Coastal Sediment Processes</td>
<td>2 to 3 points</td>
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<tr>
<td>Credit 7</td>
<td>Enhanced Riparian Zone Protection</td>
<td>0.5 to 4 points</td>
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<td>Credit 8</td>
<td>Light Pollution Reduction</td>
<td>1 point</td>
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<td>Credit 9</td>
<td>Integrated Stormwater Planning and Design</td>
<td>1 to 4 points</td>
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<td>Credit 10</td>
<td>Innovation</td>
<td>1 to 2 points</td>
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<td>Credit 11</td>
<td>Outreach and Public Education</td>
<td>1 point</td>
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WHAT’S NEAT ABOUT A RATING SYSTEM?

• Motivation rather than regulation
  • Peer pressure, competitiveness
  • No heavy-weight government

• Marketable
  • Certification enhances development value

• Education tool
  • Development and implementation
  • Developers, governments and public

• Adoptable
  • Local governments can use as a “bar” to meet in development applications
WHAT’S UP WITH GREEN SHORES?

- Green Shores Coastal Development Rating System Demonstration (CDRS) and Training Project 2013
Greening Shorelines, Enhancing Resilience: an evaluation of GS

• **Task 1** – *Develop a framework to evaluate the adaptability to CC/SLR, ecological resilience, and cost effectiveness of Green Shores-type, soft armouring alternatives*
  - pre-existing hardened shore; no pre-existing hardened shore; private residential

• **Task 2** - *Complete an Evaluative Analysis of Case Examples of Hard and Green Shores-type, soft shore armouring alternatives*
  - Cost; Efficacy; Adaptability to CC/SLR; Ecological Resilience

• **Task 3** - *Review and make recommendations to British Columbia’s Flood Protection Program (FPP) to enable funding of Green Shores-type, soft shore armouring alternatives to flood protection.*

• **Task 4** – *Knowledge Mobilization and Communications to Target Audiences*
WHAT’S NEXT FOR GREEN SHORES?

• Green Shores Outreach & Education
  • Technical Workshop on November 5\textsuperscript{th} in Vancouver
  • GS Community Workshop November 7\textsuperscript{th} in Vancouver

• Green Shores for Homes Pilot project (proposed)
www.greenshores.ca

PROTECTING WATERFRONT PROPERTIES AND NATURAL SHORELINE HABITATS.

Green Shores provides options and tools for a wide range of planning, design and construction professionals who are interested in minimizing the environmental impacts of their projects in a cost effective manner. For home owners and communities, the stories, resources and examples presented here can inspire you to make choices that will be beneficial to everyone in the long term.
GREEN SHORES FOR HOMES

Green Shores for Homes BC Pilot will:

• Compile data generated from past and current Green Shores projects

• Adapt the Green Shores for Homes (GSH) Credit and Ratings Guide for freshwater and marine shorelines homeowners in BC

• Conduct research to determine the most effective implementation models for Green Shores and

• Complete a pilot implementation of Green Shores for Homes in three BC communities.
Thank you to our Green Shores funders:

- Real Estate Foundation BC
- Natural Resources Canada
THANK YOU!!

• Questions – Comments??

Contact us:

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