



Photo: Art Sandi



Natural Asset / Ecosystem Restoration & Evaluation

November 8, 2023



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FOR BRITISH COLUMBIA

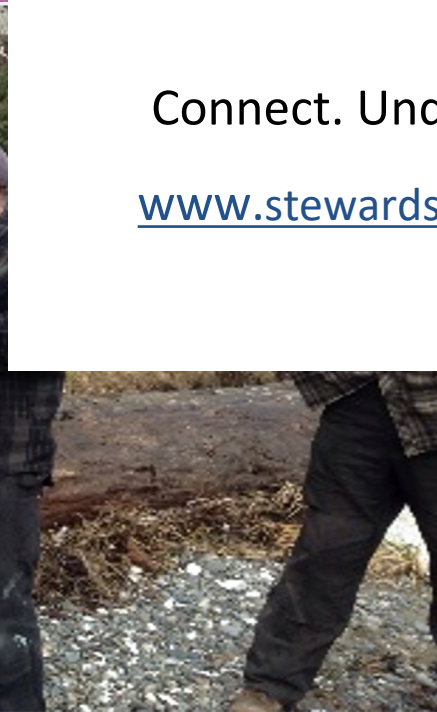
Connect. Understand. Act.



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What is Green Shores[®]?

Green Shores is a framework for designing and applying nature-based approaches to shoreline management.

- ❖ Green Shores helps communities to adapt to climate change.
- ❖ Green Shores protects the ecological and socio-economic values of the shoreline.





Green Shores Guiding Principles

- ❖ Preserve or restore physical processes
- ❖ Maintain or enhance habitat function and diversity
- ❖ Prevent or reduce pollutants from entering the aquatic environment
- ❖ Avoid or reduce cumulative impacts



Credits and Ratings Guides

- ❖ **Credits and Ratings Guides** were created as tools to develop properties in a “shore-friendly” way.
- ❖ Similar to **Built Green™** and **LEED®**, which also use a **credits and ratings system** framework.

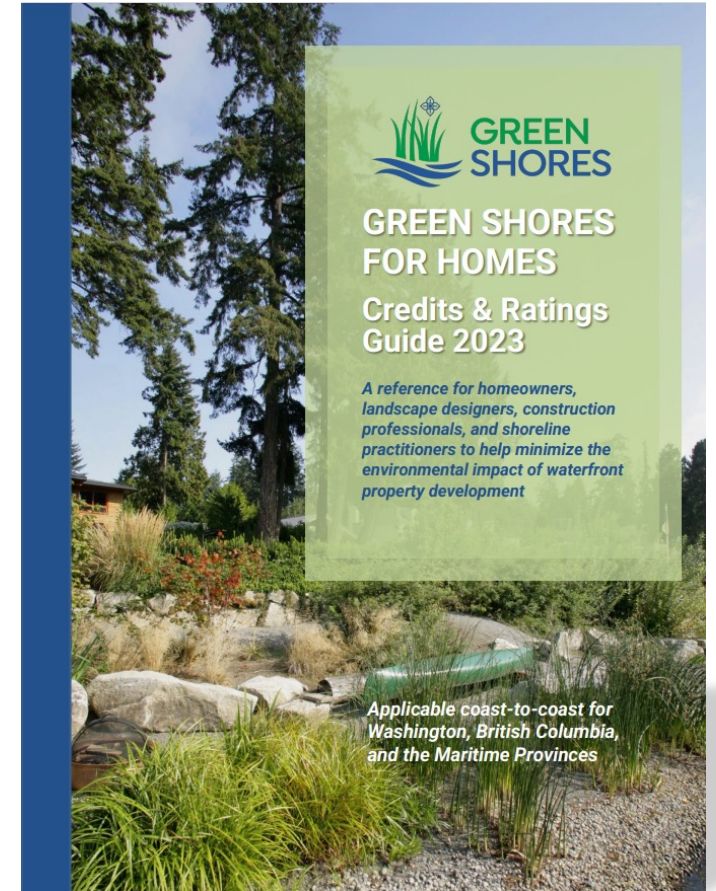


Green Shores for Homes (GSH)

Applicable to:

- ❖ Residential properties
- ❖ Freshwater (lake) and marine shorelines
- ❖ Intended to encourage incremental improvements

***Based on the four Green Shores
Guiding Principles***

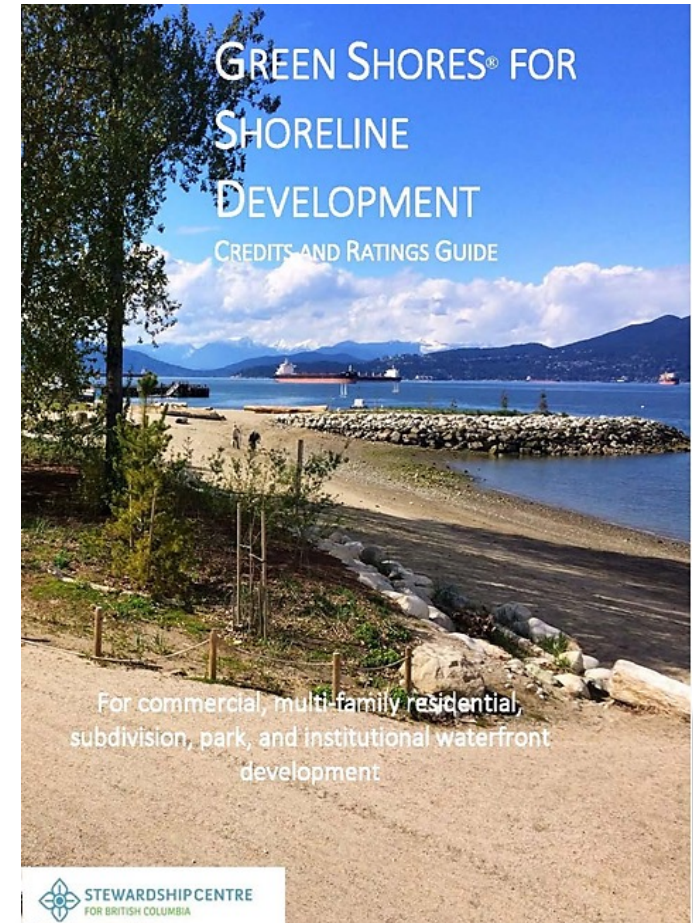


Green Shores for Shoreline Development (GSSD)

Applicable to:

- ❖ Commercial
- ❖ Multi-family residential sub-division
- ❖ Park
- ❖ Institutional

*Based on the four Green Shores
Guiding Principles*



BEFORE



AFTER



“ Becoming involved, reading and learning about the benefits of Green Shores through this project has been enlightening...and fun. Thank you to the Green Shores team for sharing your knowledge and passion for the program. We look forward to enjoying the garden maturing and evolving with the hope of it being an inspiration for neighbouring waterfront owners. Best of all the birds love it! ”



Principles at Work:

BEFORE



AFTER





Principles at Work:

BEFORE



AFTER





Training Delivered in Collaboration with Post-Secondary Institutes



Level 1: Introduction to Green Shores



Level 2: Application of Green Shores Credits and Ratings Systems



Level 3: Proficiency in Green Shores (Approved Professional)



Green Shores Training

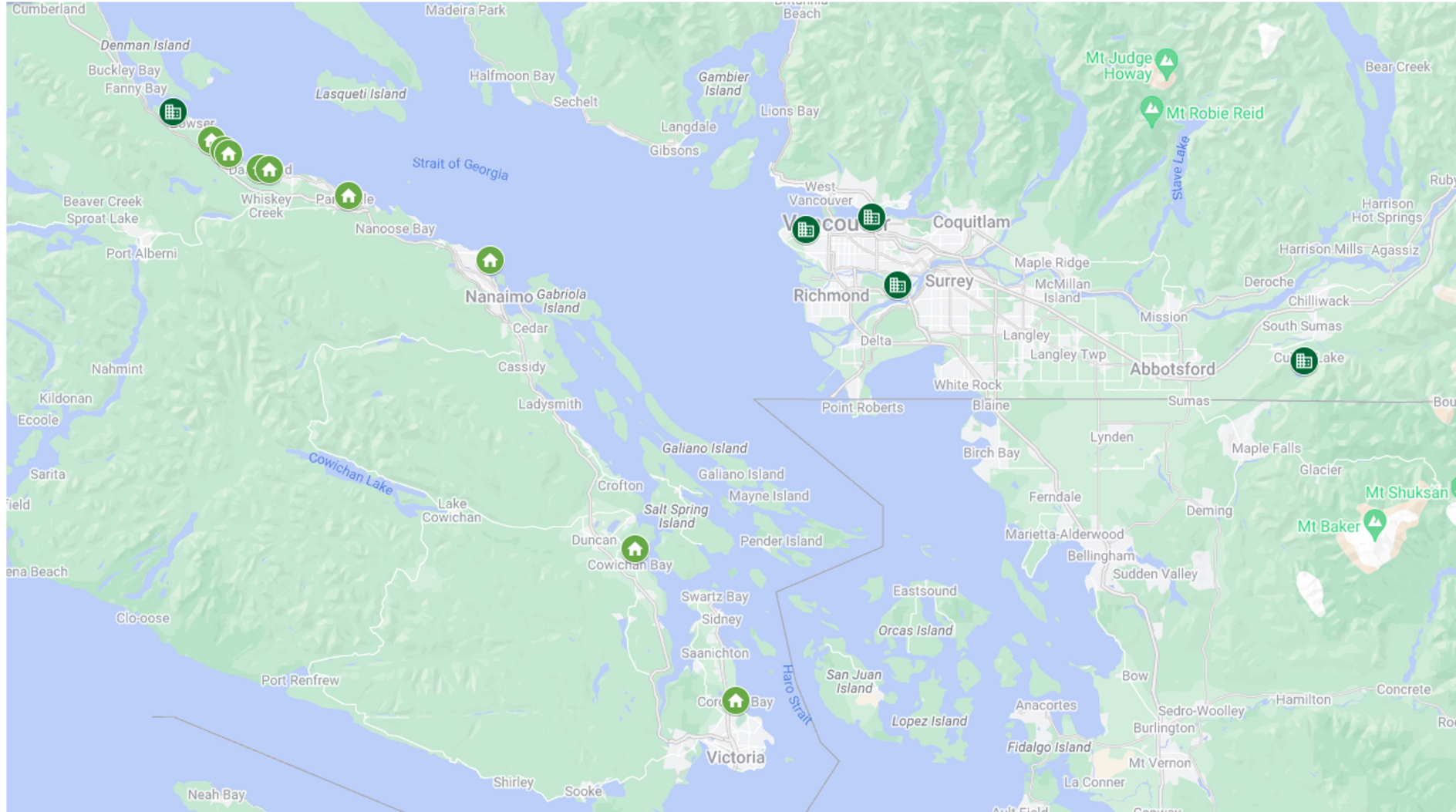
Level 1 - One-day workshop

- ❖ Introduction to the Green Shores Program
- ❖ Overview of shoreline ecology and governance
- ❖ Green Shores Credit and Rating System
- ❖ Visit to a local shoreline

Level 2 - Two-day workshop

- ❖ In-depth knowledge of Green Shores Credits and Ratings System
- ❖ Review of:
 - ✓ Shoreline ecosystems
 - ✓ Management and restoration strategies

Green Shores Across BC









HARBOUR TOURS

HOME OF VICTORIA HARBOUR FERRY & H2O

WATER TAXI
250-514-9794

WARNING





Purpose of the Local Government Working Group

- ❖ Demonstrate leadership in climate change resilience and adaptation planning
- ❖ Aid biodiversity by protecting and restoring essential habitat
- ❖ Provide training and peer-to-peer learning
- ❖ Demonstrate nature-based shoreline options.



Community of Practice





Purpose of the Green Shores Community of Practice

- ❖ Promote Green Shores programs and projects
- ❖ Provide a space for members to share knowledge and best practices
- ❖ Advance accreditation of Green Shores Approved Professionals who have demonstrated knowledge of the Green Shores principles and best practices through three levels of Green Shores Training



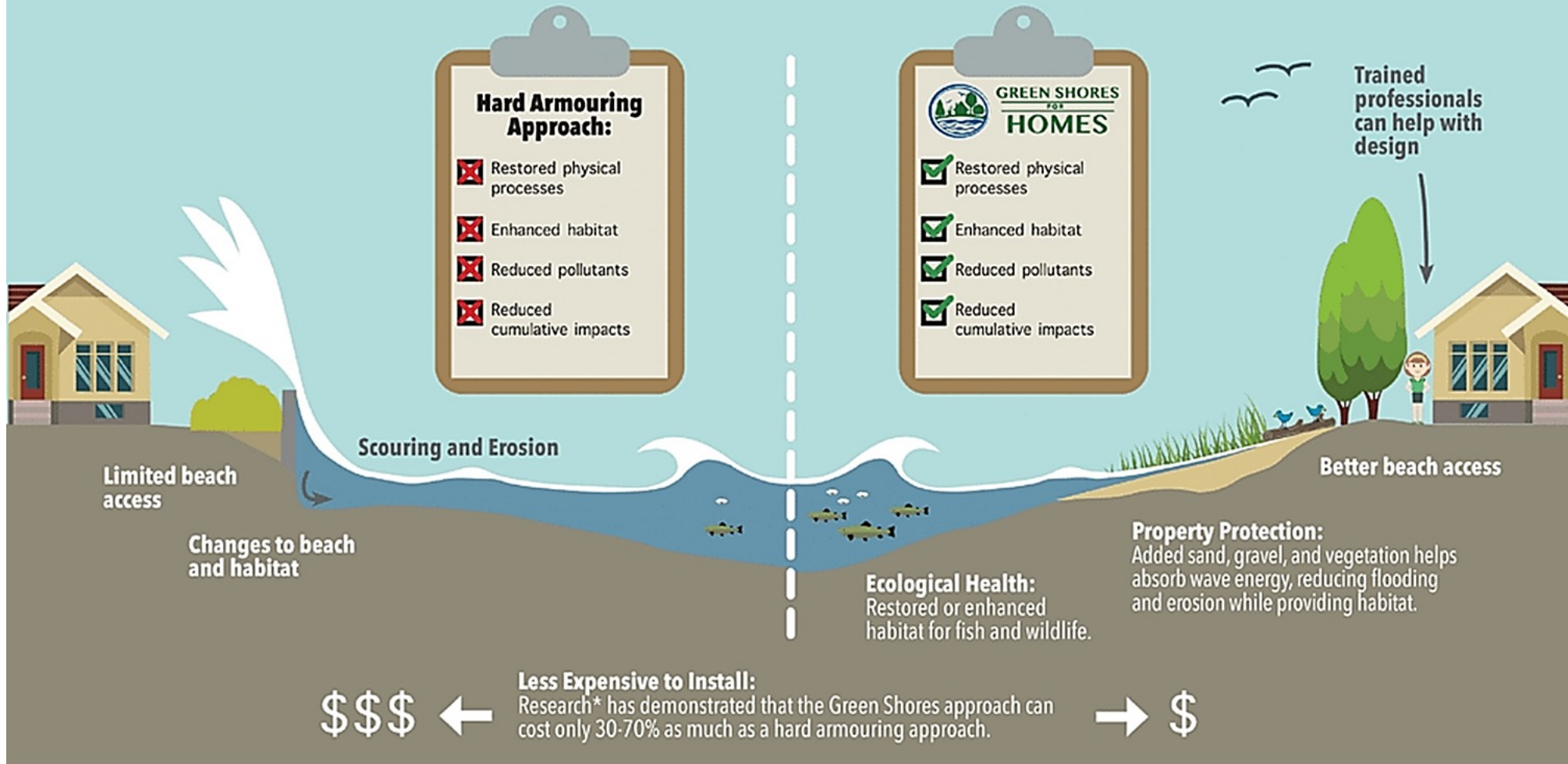
Why Green Shores?

- ❖ A rigorous third-party verification process offers compelling proof that the project has achieved strategic environmental goals
- ❖ Alignment with a growing number of government policies and regulations
- ❖ Demonstrates leadership in shoreline stewardship
- ❖ May be linked to incentives in the future



Green Shores for Homes

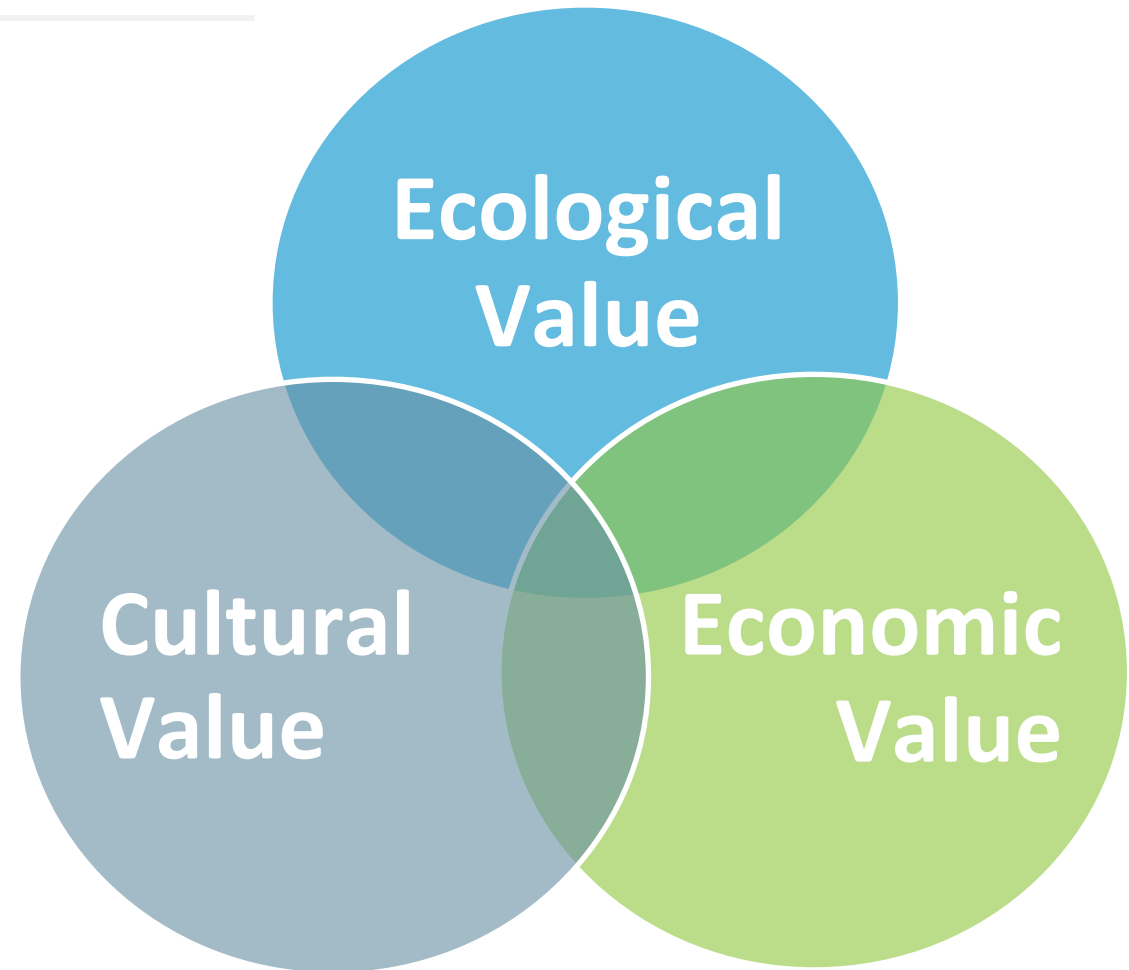
Protect your property *and* help the environment.





Green Shores Value

**Green Shores
projects have a \$7:1
net benefit-to-cost
ratio!**



Green Shores Guide to Expedited Permit Process for Nature-based Solutions in BC

The Province of BC has partnered with SCBC to develop an **Expedited Permit Guide** and a **Nature-based Shoreline Projects Checklist** for residents of the province.

Both resources are based on the principle of the Green Shores[®] Program, which promotes the use of **nature-based erosion protection and restoration methods** in sites where erosion protection is needed.





Green Shores Principles Work!

- ❖ Coastal / shoreline habitat can provide **significant risk reduction to communities** (Reazie et al. 2020)
- ❖ Field-based studies from around the world reveal that coastal / shoreline habitats can **reduce wave heights by 35-71%** (Narayan et al. 2016)
- ❖ Shorelines hardened with **seawalls/dykes support 23% less biodiversity and 45% fewer organisms** than natural shorelines (Gittman et al. 2016)
- ❖ Evidence suggests that both natural and **nature-based approaches** for hazard mitigation can be **equally or more effective than conventional approaches**, and they are often more cost-effective (Glick et al 2020; Lamont et al. 2014)



Green Shores Evaluation

- ❖ **Expression of interest** - those qualified and interested in working with SCBC to continue establishing and developing evaluation processes specific to various aspects of the Green Shores Program, with a focus on integration, monitoring and evaluation:
 - ❖ **Justice, Equity, Diversity, and Inclusion (JEDI)**
 - ❖ **Climate Resilience**
 - ❖ **Socio-economic Valuation**
 - ❖ **Others – Ideas!**

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Natural Resources
Canada

Ressources naturelles
Canada

Canada



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Environment and
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PACIFIC SALMON
FOUNDATION



*Learning that shapes
who you are.*

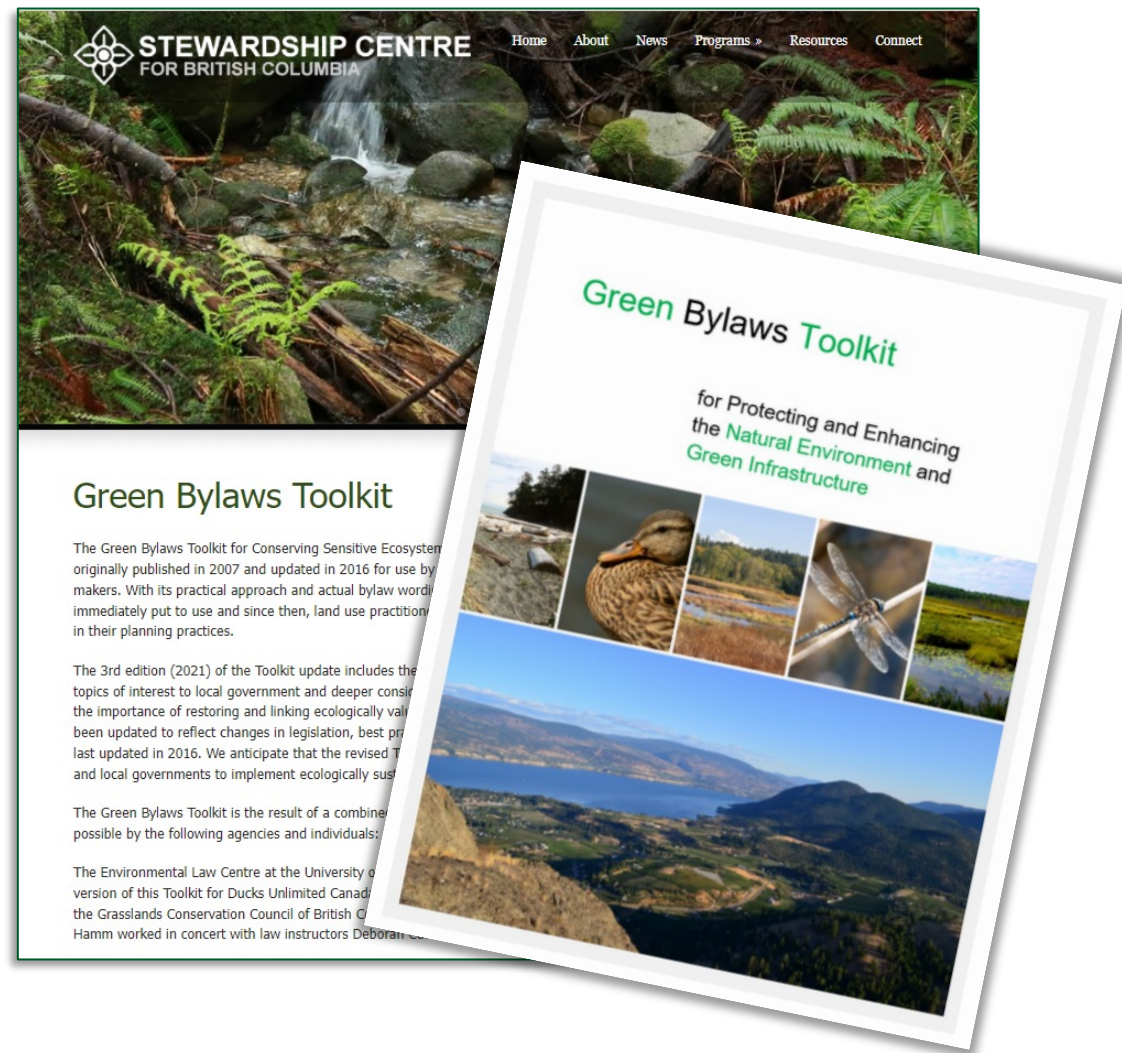




Green Bylaws Toolkit

The 3rd edition of the Green Bylaws Toolkit for Protecting and Enhancing the Natural Environment and Green Infrastructure is available on the Stewardship Centre's website.

www.stewardshipcentrebc.ca/green-bylaws/





Resources

- ❖ Green Shores 2020: Impact, Value and Lessons Learned, <https://stewardshipcentrebc.ca/green-shores-home/gs-resources/>
- ❖ Review of British Columbia Shoreline Policies and Opportunities for Green Shores (2020), <https://stewardshipcentrebc.ca/green-shores-home/gs-resources/>
- ❖ Green Shores Background Report: Shoreline Regulations and Permitting Processes in BC, October 2014, <https://stewardshipcentrebc.ca/green-shores-home/gs-resources/>



Thank you for your interest!

