


# The Future of Ostler Park

The Ostler Park Foreshore  
Restoration Project



A photograph showing a rocky shoreline with several large pieces of driftwood. To the right, there is a grassy area enclosed by orange safety fencing. In the background, a marina with many boats is visible under a clear blue sky. The text "What's happening to the shoreline? Why is it failing?" is overlaid in yellow on the left side of the image.

What's happening to the shoreline?  
Why is it failing?

September 2014





Damage is caused by:

- ✓ Significant storms
- ✓ Constant wave action
- ✓ Poor design/construction
- ✓ Overtopping

Photo credit: Campbell River Mirror, March 2012





# Towards better shore protection for Ostler Park

**The City of Campbell River is considering options to repair the shoreline at Ostler Park to:**

- ✓ **Contribute to Downtown Revitalization**
- ✓ **Improve Ostler Park as a great Community Space**
- ✓ **Improve tourism experience**
- ✓ **Enhance special events**





# Towards better shore protection for Ostler Park

The City of Campbell River is considering options to repair the shoreline at Ostler Park to:

- ✓ Reduce property damage
- ✓ Minimize maintenance
- ✓ Provide easier and safer public access to the water's edge and
- ✓ Improve foreshore and marine habitat



# What are the Alternatives?



- 1. Replace Riprap** – Remove and replace the existing riprap protection with a properly engineered and constructed solution
- 2. New Beach** – Reduce the amount of riprap and restore as much of the foreshore to a more natural condition

1950s Beachfront, downtown Campbell River (note filling at new cenotaph)  
Image: Godfrey Baldwin Collection, Courtesy the Museum at Campbell River

# What are the Alternatives?



**Each option will cost about \$700,000 to complete including all design, construction, administration and contingencies, as well as required storm sewer repairs.**

**Either option will use grant funding, so there will be no increase to property taxes**

*1950s Beachfront, downtown Campbell River (note filling at new cenotaph)  
Image: Godfrey Baldwin Collection, Courtesy the Museum at Campbell River*



# Why not just add more rocks?



- ✓ **Does not meet the objectives for improved socio-economic and environmental improvements to the park space or foreshore**
- ✓ **More rocks will steepen the grade and increase the potential for overtopping resulting in increased maintenance costs after storms**
- ✓ **Does nothing to prevent the erosion of underlying fine material, and will need to be repaired again and again**



# Does the key to the Future lie in the Past?



Image courtesy of the Museum at Campbell River  
mid-1950s



# Is resistance futile?



After the storm the beach is okay, but the highway protected by riprap is damaged



# Option 1: Replace Riprap



- ✓ “Replace” because the existing riprap needs to be re-built
- ✓ Re-shape the bank. Make the slope less steep (3H:1V)
- ✓ Better mix of small and large rocks
- ✓ Cover underlying soils with fabric to prevent erosion
- ✓ Extended below low tide line



# Option 1: Replace Riprap

## What will it look like?

- Modest adjustment to the “Seawalk” required landward
- Better mix of small and large rock
- Install a geotextile fabric to prevent the erosion of fine material



# Option 1: Replace Riprap



## Advantages:

- ✓ Maximizes upland park space
- ✓ Existing rocks can be re-used
- ✓ Accomplishes *partial* storm wave energy dissipation
- ✓ Proven track record when designed/constructed properly
- ✓ Adaptable to potential “Sea Level Rise” (SLR)



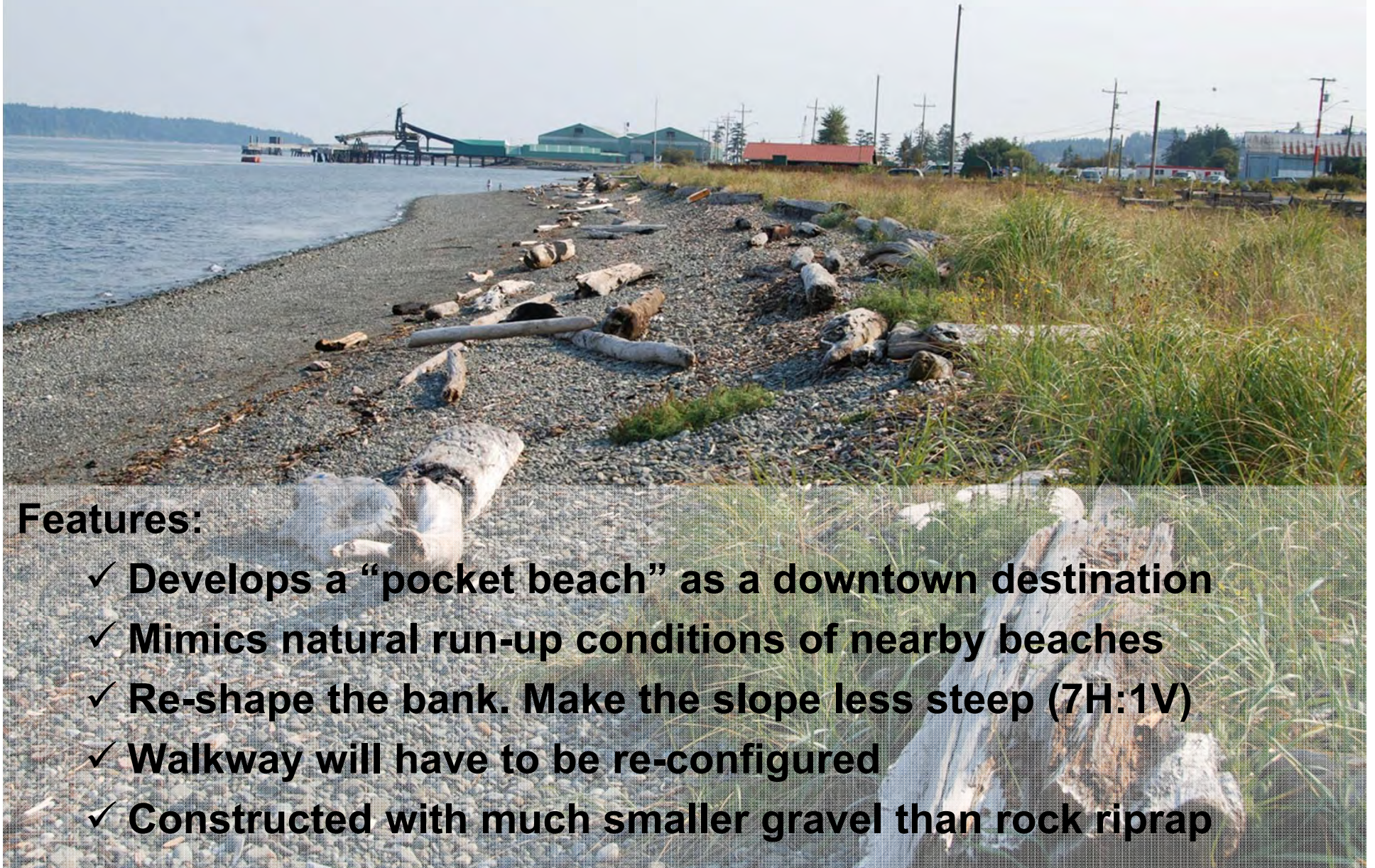
# Option 1: Replace Riprap

## Disadvantages:

- ✓ Does not meet park's full potential as a community amenity
- ✓ Some risk of 'overtopping' compared with a natural beach slope requiring periodic clean up and maintenance
- ✓ Poor, unsafe access to the water
- ✓ Not fish friendly



# Option 2: New Beach



## Features:

- ✓ Develops a “pocket beach” as a downtown destination
- ✓ Mimics natural run-up conditions of nearby beaches
- ✓ Re-shape the bank. Make the slope less steep (7H:1V)
- ✓ Walkway will have to be re-configured
- ✓ Constructed with much smaller gravel than rock riprap



# Option 2: New Beach

## What will it look like?

- Greater adjustment to the “Seawalk” required
- Greater access to the foreshore with a more natural beach



# Option 2: New Beach



## **Advantages:**

- ✓ **Provides safer and easier access to the water's edge increasing total park space by 2660 square metres**
- ✓ **Improves the park as a community asset that fits with Downtown Revitalization and OCP vision**
- ✓ **Material from the beach shaping can be used on site to improve the park drainage and landscape**



# Option 2: New Beach



## **Advantages:**

- ✓ **Improved foreshore and marine habitat**
- ✓ **Locally - proven method (Dick Murphy Park, several Hwy 19A sites)**
- ✓ **Adaptable to Sea Level Rise**



# Option 2: New Beach



## Disadvantages:

- ✓ Reduces upland park space by about 1050 square metres
- ✓ Would require periodic re-nourishment as a part of the maintenance program





City of  
Campbell  
River

# How do the Options Compare?

	Replace Riprap	New Beach
Downtown Revitalization	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Initial Cost	\$\$	\$\$
Grant Funding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Upland Park Space Reduction	≈ 0	1050 sq. m.
Usable Beach Area Increase	≈ 0	2660 sq. m.
Park Improvement / Safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Accessibility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Adaptable to Sea Level Rise	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fish Friendly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Wave Energy / Overtopping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>





City of  
**Campbell  
River**

## Here's where you come in!

- ✓ **Ask questions**
- ✓ **Indicate which option is your greater preference**  
*(Place your dot, or comment tag on the poster board)*
- ✓ **Fill out the survey** *(hard copy or online at [www.campbellriver.ca](http://www.campbellriver.ca))*
- ✓ **Make your opinion count!**



**JPH CONSULTANTS INC.**  
landscape architecture  
environmental management  
soft shore protection