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|----------------------------|---|
| <b>Location</b>            | Chinook, Washington   |
| <b>Hazard(s) Addressed</b> | Coastal Erosion and Flooding  |
| <b>Shoreform</b>           | Beach   |
| <b>Adaption Strategy</b>   | Structural Accommodation  |
| <b>Adaption Action</b>     | Natural and locally sourced materials create a soft-armor shoreline structure spanning four properties. This structure dissipates wave energy and promotes the accretion of sand along an eroding beach.  |
| <b>Lessons Learned</b>     | <ul style="list-style-type: none"> <li>• Working with multiple property owners can increase a project's impact.</li> <li>• If time and money are available, find an experienced design engineer, architect or professional. This can save resources in the long run.</li> <li>• If stability is desired, ensure that structural elements (root wads, logs) are stable and cannot move after installation.</li> <li>• Preserve mature shoreline vegetation to prevent erosion.</li> <li>• Pay attention to connections between materials or where materials meet the substrate. Overlap, bury or connect these points to prevent water from moving through openings. Water movement can cause scour and erosion, move materials and weaken a structure.</li> </ul> |
| <b>Project Team</b>        | Pacific Conservation District, private homeowners   |
| <b>Budget</b>              | \$62,500  |
| <b>Time</b>                | March 2014 to February 2017   |
| <b>Contact</b>             | Tom Kollasch, Pacific Conservation District<br>tkollasch@willapabay.org   |

Caption:

Description:

Dimensions: 884 x 743

aperture: 0

credit:

camera:

caption:

created\_timestamp: 0  
copyright:  
focal\_length: 0  
iso: 0  
shutter\_speed: 0  
title:  
orientation: 0  
keywords: Array