

Living Shorelines = Living Coast



About Us

- Founded 1982
- 10,000 members
- 24 staff members
- 30 board members
- 20 county coverage





Important Disclaimer

Following "Findings" and "Recommendations" are made by the N.C. Coastal Federation, and have not been proposed or endorsed by any other workshop sponsor.



Report on Living Shoreline Site Visit and Discussion

Smithsonian Environmental Research Center April 11, 2013 Edgewater, Maryland

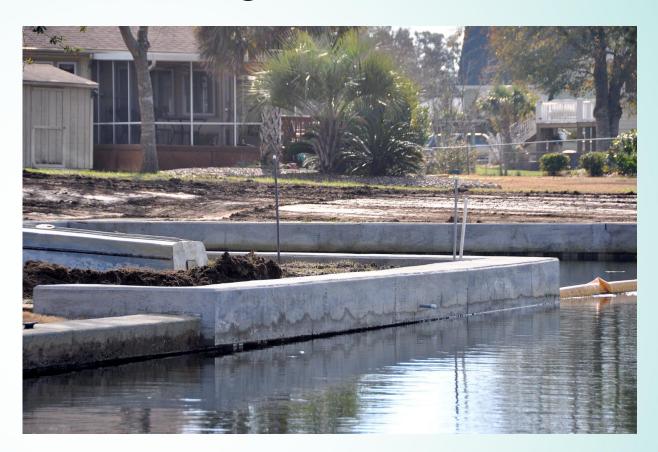


 Estuarine shorelines are among the world's most ecologically and economically valuable natural habitats.





 Laws and programs have not adequately protected many of these shorelines.





Bulkheads give the illusion of providing longterm protection to property but are not as reliable as other more natural means of shoreline stablization.





 Selection of best methods of shoreline stabilization should be based on site conditions, landowner needs, and what's practical to do.





 Bulkheads are seldom the preferred environmental option. They cause long-term environmental damage.





Management programs for estuarine shorelines vary greatly from state to state, but are evolving in an attempt to promote the preferred environmental alternative.





There is a need to develop more standardized management methods, designs, cost, permit standards, and institutional structures for shoreline management.

Findings





Publicly funded shoreline management projects provide excellent opportunities to refine management techniques.





 Privately funded shoreline management projects need to rely on proven management techniques.





 Leadership and guidance from policy makers are critical to provide agency staff that design and permit shoreline management with adequate institutional support.





 Sea-level rise, heightened storm damage and on-going waterfront development are intensifying pressure to protect estuarine shorelines.





 Need to reaffirm that it is a national imperative to protect and restore estuarine shorelines.





 Headquarter agencies need to provide leadership and coordination.





National principles for estuarine shoreline management that are consistent with the Clean Water Act and other key federal environmental laws need to be adopted.





Hierarchy of Erosion Control Options

 Estuarine shoreline management should be based upon a hierarchy of options.



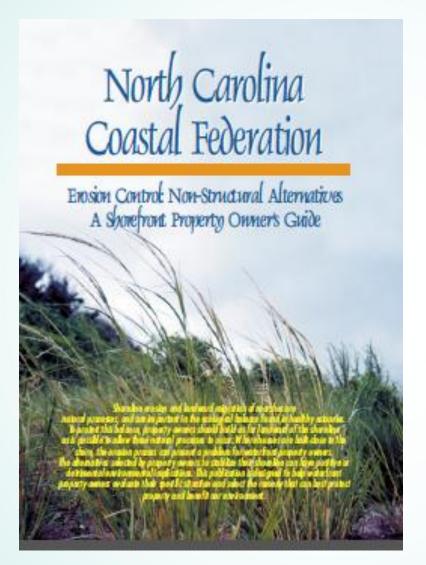
- No Action
- Relocation of Threatened Structures
- Non-Structural Stabilization Measures (Slope Grading, Marsh Creation, Bio- Engineering, beach nourishment)
- Combination Approaches (Sills, Stone containment cells, breakwaters with plantings)
- Hardening Structures (Groins, Revetments, Gabions, Bulkheads)



Large public landowners such as DOD should consider instituting such a hierarchy on shorelines they manage.







 A national repository of information on estuarine shoreline mangement should be established.



 Formal training opportunities for agency managers, contractors, and other stakeholders need to be routinely offered in an accredited fashion.





 Educational materials for landowners need to be developed and widely distributed.





Management impediments to environmentally sound shoreline management need to be eliminated, and institutional capacity to manage shorelines enhanced.







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