



Agenda Coastal Lifestyle for Clean Water

- Overview: Why This Matters
- Coastal Life Support: The Saltmarsh and Tidal Creek Ecosystem
- Coastal Lifestyle for Clean Water Guide
 - Aquatic Life and Wildlife
 - Tool: SC Watershed Atlas
 - Recreation
 - Tools: SC Beach Guide, Swim Guide
 - Seafood
 - Tools: SC Fish Consumption Advisory App, SCDNR Shellfish Mapper



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Objectives Coastal Lifestyle for Clean Water

- Understand how clean water and a healthy saltmarsh supports favorite coastal lifestyle activities
- Understand how to use online tools to investigate water quality in communities
- Provide clients with resources and tips to stay safe and healthy while living the coastal lifestyle
- Encourage clients to reduce sources of water pollution, especially bacteria



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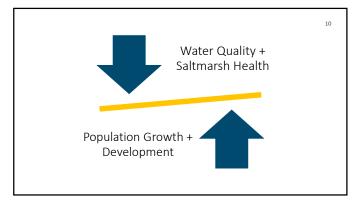


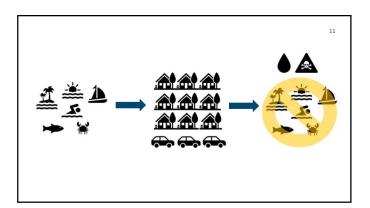






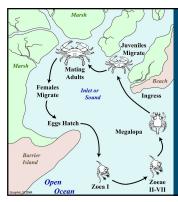












The estuary is a breeding ground and nursery for many species of fish, crabs and shrimp.

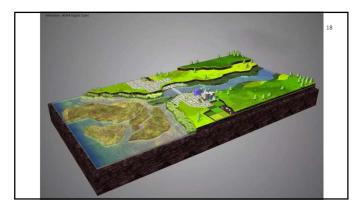






How does a marsh get dirty?

https://coast.noaa.gov/elearning/estuaries/





How much pollution can the marsh handle?

SCDHEC has a water quality monitoring program for that.

There are practical steps residents can take to reduce pollution and protect creeks and salt marshes.

There are practical steps residents can take to reduce personal risks from pollution.

Residents can also help protect wildlife that live in creeks and saltmarshes.

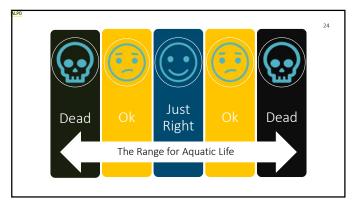
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ALPO Maeve had a note for this slide about threshhold. May need to redesign Abigail Locatis Prochaska, 2022-09-08T17:13:55.938

Threat: development activities can result in water pollution.











Practice Time! SC Watershed Atlas

https://gis.dhec.sc.gov/watersheds/ Google "SC Watershed Atlas"



Suggested layers to check out:

SCDHEC Regulated Permits – any sublayer

Water Quality Assessments - 2018 Use Support and Trends sublayer, Impaired Waters –

303(d)2018

Nat'l Watershed Boundaries – any sublayer

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SCDHEC chemical spill, oil spill and fish kill hotline: 1-888-481-0125

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File a pollution complaint with local SCDHEC Environmental Affairs Office

https://www.scdhec.gov/ea-regional-offices

Threat: Litter and Microplastics



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Solution: Report littering 1-800-922-5431

SCDNR Tips App

















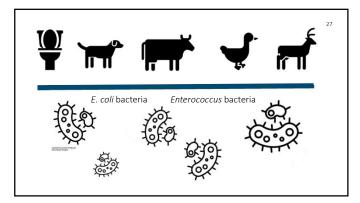








Threat: bacteria in water where you swim can make you sick.

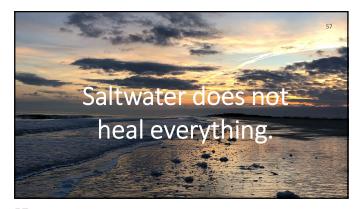


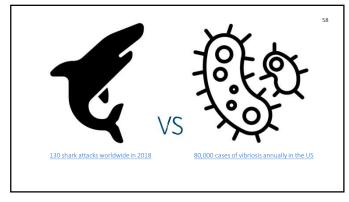












Threat: irresponsible boaters pollute and destroy marsh habitat.



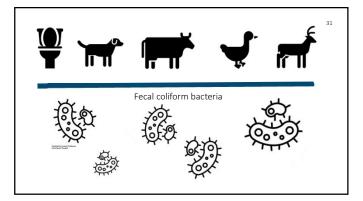


Report boating, fishing or hunting violations.
Operation Game Thief hotline:1-800-922-5431

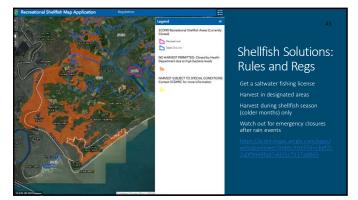




Threat: bacteria in shellfish can make you sick.

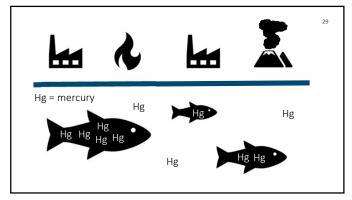












Threat: pollutants in fish can be harmful if eaten.





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Practice Time! Seafood Consumption®



South Carolina Fish Consumption Advisory App

https://gis.dhec.sc.gov/gisportal/ap ps/webappviewer/index.html?id=c7 1943bc743b4ca196e0ef0406b1d7a b



 SCDNR Recreational Shellfish Map Application

https://scdnr.maps.arcgis.com/apps/webap pviewer/index.html?id=cbef2c2a0f9449fa8 7dd25c7117ad865

Threat: overharvesting





Threat: loss of the marsh itself











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Case Study: May River

Is this creek suitable for: Swimming - ?? Probably

Fish Consumption – Follow Advisories

Shellfish Harvesting – Approved shellfish grounds nearby

Aquatic Life – Some issues, but OK





What can be done to improve water quality in your area?

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Summary Coastal Lifestyle for Clean Water

- •Our coastal lifestyle is supported by clean water and a healthy saltmarsh
- •Rapid development, population growth and careless people can threaten our coastal lifestyle
- •SCDHEC monitors water quality to catch problems as they arise
- •All coastal residents can follow rules, regs and advisories to stay safe and healthy
- healthy
 •All coastal residents can help keep water clean, especially by reducing bacteria and litter
- •Use the SC Watershed Atlas and other online tools to explore water quality in your community



For more information and course materials



South Carolina Coastal Information Network https://www.sccoastalinfo.org/

> Instructors Maeve Snyder msnyder@baruch.sc.edu

> > Kaitlyn Dirr DirrK@dnr.sc.gov

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Calling the Coast Home

Course Series:
Living with Water
The Land Water Connection
Tidelands, Water & Beach:
Regulations & Rebuilding.
Coastal Lifestyle for Clean
Water

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www.sccoastalinfo.org