



NATURE BASED SOLUTIONS ON A SCALE

NBS can range in scale and can be implemented by a range of entities, from homeowners to cities.

Tree Planting Living Shoreline Tree Box Filters
Rain Garden Green Roof Bioswales

SMALL SCALE ← → LARGE SCALE

RESOURCES

What are Nature Based Solutions? NOAA

<https://oceanservice.noaa.gov/facts/nature-based.html>

Stormwater Brochure - SASJBEP

<https://lnk.bio/s/sasjbep/stormwater-brochure>

Green Stormwater Infrastructure - FDEP

<https://gsi.floridadep.gov/>



Nature- Based Solutions

*WORKING WITH NATURE TO
BUILD RESILIENT
COMMUNITIES AND HEALTHY
BAYS*



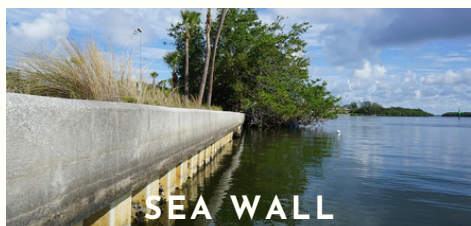
ST. ANDREW & ST. JOSEPH BAYS
ESTUARY PROGRAM

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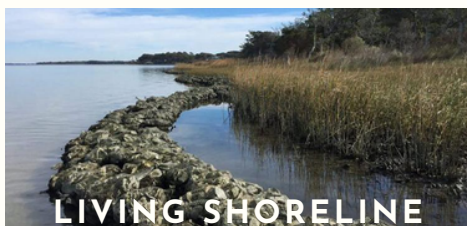


ADDRESSING CHALLENGES

Communities use a many tools to address challenges such as flooding, erosion, stormwater runoff, and shoreline protection. **Gray infrastructure (GI)** and **Nature-based Solutions (NBS)** are two approaches to addressing these issues. In many cases, the most effective and resilient projects combine gray infrastructure with NBS, creating systems that address community needs while enhancing water quality, wildlife habitat, and environmental health.



SEA WALL



LIVING SHORELINE

GRAY INFRASTRUCTURE

- Traditional, human-made infrastructure
- Hard materials such as concrete, steel, and asphalt
- Can be effective, but require costly maintenance and only address a single issue

NATURE-BASED SOLUTIONS

- Integrate natural systems into the built environment
- Provide multiple benefits to people and wildlife
- Work with nature to address challenges

NATURE BASED SOLUTIONS CAN:



Reduce
Flooding



Regulate
Stormwater



Improve
Water
Quality



Reduce
Erosion



Create
Habitat for
Wildlife



Increase
resilience



Improve
Education
and
Recreation



Improve
Aesthetics

COMMON TYPES:



Living Shorelines

Uses natural materials like vegetation, oyster reefs, and rock to stabilize shorelines and create habitat for fish and wildlife.



Rain Gardens and Bioswales

Planted landscape features that capture and absorb stormwater runoff.



Wetlands

Ecosystems where the soil is periodically or consistently saturated with water. These ecosystems store floodwater, filter pollutants, and create habitat