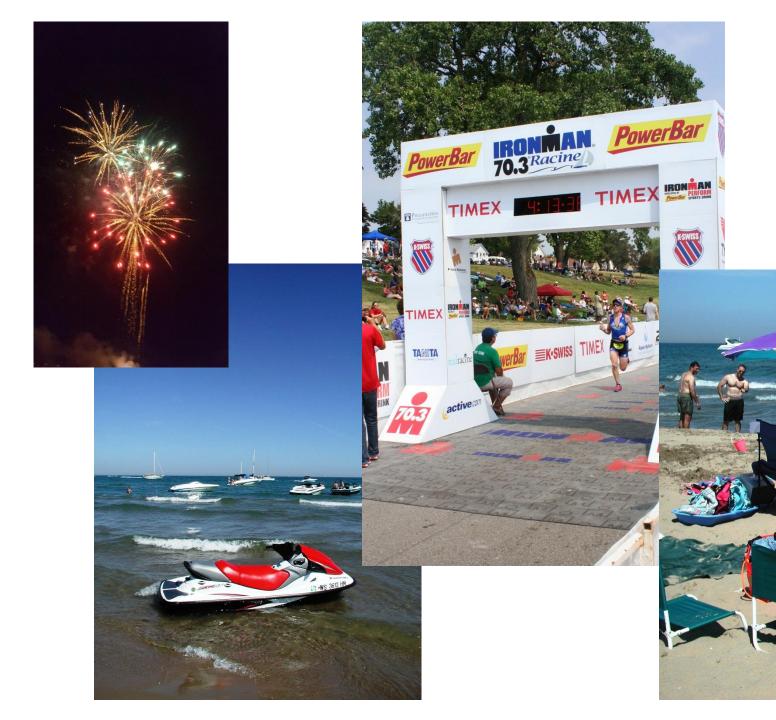
Coastal Resilience Solutions for Shoreline Municipalities

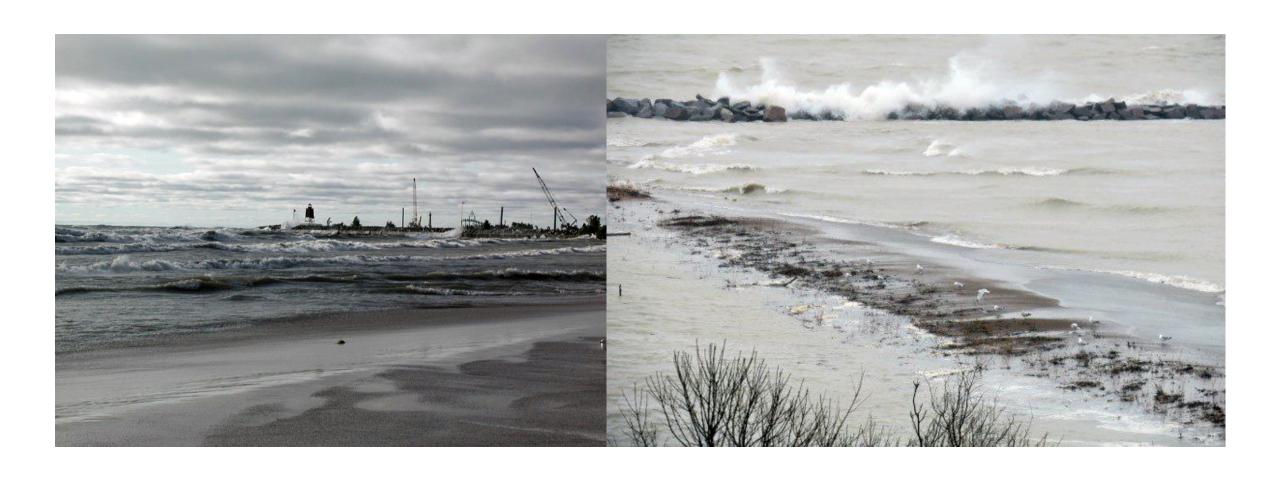
Great Lakes and St. Lawrence Cities Initiative 2018 Annual Conference Charting a Course to Resilience

Julie Kinzelman, MS, PhD, MT (ASCP)
City of Racine, WI



Shorelines are part of our identity and a source of local revenue

Intense Storms are Threatening These Assets



How Do We Make Beaches and Coastal Parks More Resilient?

- ☐ Engineered Structures
- ☐ Green Infrastructure
- □ Naturalization/Restoration
- □ Preservation
- **□**Planning
- **□** Education



Engineered Structures



Green Infrastructure

Encouraged Dunes/Bioswales



Constructed Wetlands

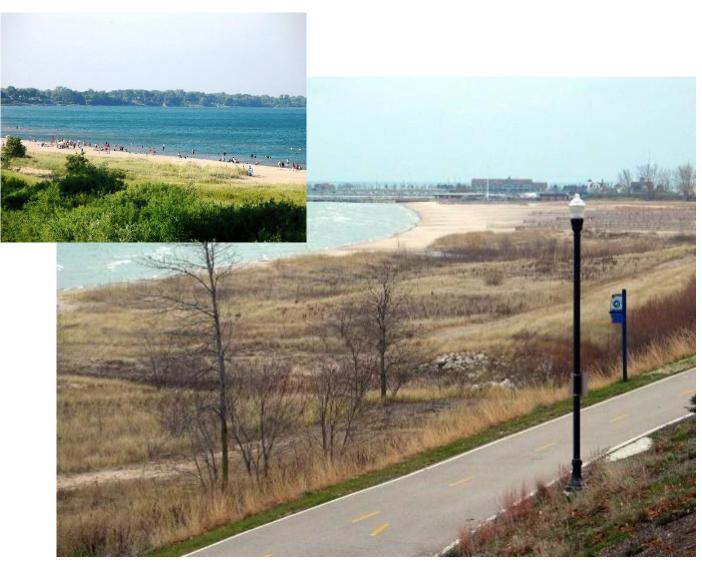


Naturalization/Restoration

Natural Shoreline Features (Soft Edge) Native Vegetation

Preserving Natural Shoreline Features





Incorporating Sustainable Practices into Future Planning

THE PUBLIC IS INVITED TO AN OPEN HOUSE TO ASSIST IN THE DEVELOPMENT OF

RACINE'S NORTH BEACH PLAN

WHE

Monday, March 21st 6:00pm to 8:30pm

WHER

Memorial Hall, Racine Sapphire East Hall 72 Seventh Street, Racine, WI

ACEND!

- Environmental Stewardship
- Public Programming
- Access and Parking

FOR MORE INFORMATION

Contact Stephan Kurdas at 262-636-9571

CITY OF RACINE, WISCONSIN
PUBLIC HEALTH DEPARTMENT
Serving the City of Racine and the
Villages of Wind Point & Elimonod Park

PUBLIC HEALTH DEPARTMENT • PARKS, RECREATION AND CULTURAL SERVICES • CITY DEVELOPMENT • PUBLIC WORKS



Education/Social Learning

Onsite Public Education



SAMUEL MYERS PARK **WETLANDS**



A wetland is defined as "an area where water is at, near, or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wet conditions (Wisconsin Statutes),"

Wetlands play an integral role in the ecology of the watershed. The combination of shallow water, high levels of nutrients and primary productivity is ideal for the development of organisms that form the base of the food web and feed many species of fish, amphibians, shellfish and insects. Many dozens of species of birds and mammals rely on wetlands for food, water and shelter, especially during migration and breeding.



- Filter water
- Store stormwater
- · Recharge water supplies
- · Critical habitat
- · Recreational opportunities
- · Provide places of beauty
- · Research and education opportunities







Visit www.rootpikewin.org for more information on wetland restorations in the Pike River watershed

Reaching Out to Future Generations



Return on Investment



Avoided Damages

\$5 million direct economic impact to Racine based on attendance, hosted events, and hotel stays – North Beach



1911



2011

Thank you!



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