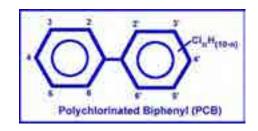




Degradation of the Lower Fox River & Green Bay Ecosystem



- "Hardest working river in the country"
- Designated Area of Concern (AOC); 11 BUIs
- Impaired by excessive nutrient and phosphorous loading
- PCBs



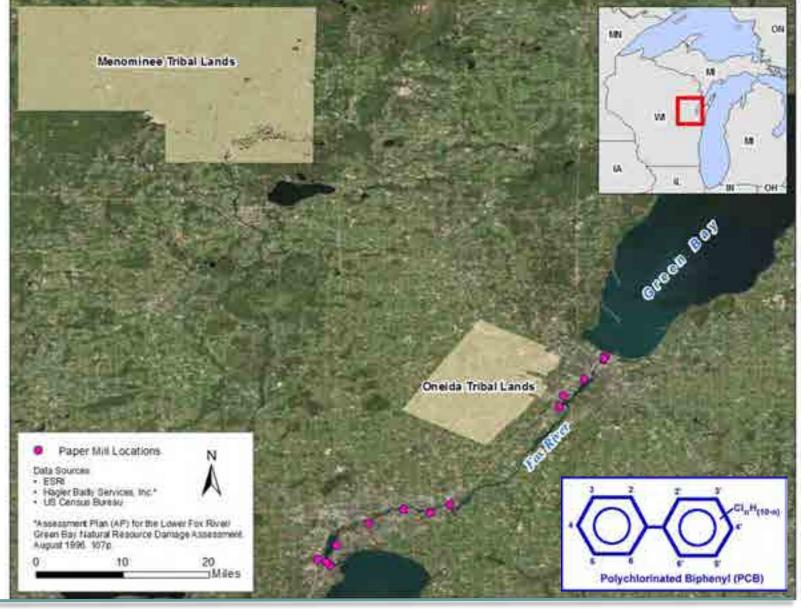






F

What is the Fox River/Green Bay NRDAR?











Restoration Plans – 2003 & 2016

JOINT RESTORATION PLAN ENVIRONMENTAL ASSESSMENT LOWER FOX RIVER AND GREEN BAY AREA

TRUSTEES:

Wisconsin Department of Natural Resources Oneida Tribe of Indians of Wisconsin Michigan Attorney General Michigan Department of Environmental Quality Menominee Indian Tribe of Wisconsin Fish and Wildlife Service, Bureau of Indian Affairs Department of the Interior

National Oceanic and Atmospheric Administration Department of Commerce

LEGAL AUTHORITY

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (as amended)

Federal Water Pollution Control Act (Clean Water Act)(as

Natural Resource Damage Assessment, 43 Code of Federal Regulations, Part 11

National Environmental Policy Act. 42 U.S.C. §§4321-4347

RESPONSIBLE FEDERAL AGENCIES Region 3, U.S. Fish and Wildlife Service, lead agency National Oceanic and Atmospheric Administration, cooperating

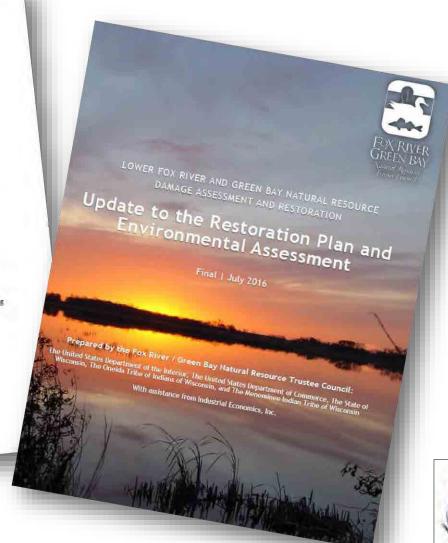
Bureau of Indian Affairs, cooperating agency

CONTACT

Colette S. Charbonneau U.S. Fish and Wildlife Service 2661 Scott Tower Drive New Franken Wisconsin 54229 Telephone 920-866-1726

DATE:

June, 2003











OX RIVE





Lower Fox River/Green Bay NRDA Trustee Council





Trustees

A good mind. A good heart. A strong fire.

Tehassi Hill Tribal Chairman Oneida Nation Lori Nordstrom ARD – Ecological Services

Region 3, US FWS

James Zellmer

Env. Division Administrator

WI DNR

Tribal Designee

Menominee Tribe

Jim Snitgen
Water Resources
Supervisor
Oneida Nation

Trina Soyk
TC Coordinator
Betsy Galbraith
US FWS

Dave Boyarski
Josh Martinez
WI DNR

Jeremy Pyatskowit
Environmental
Services Dept
Menominee Tribe

Technical Team

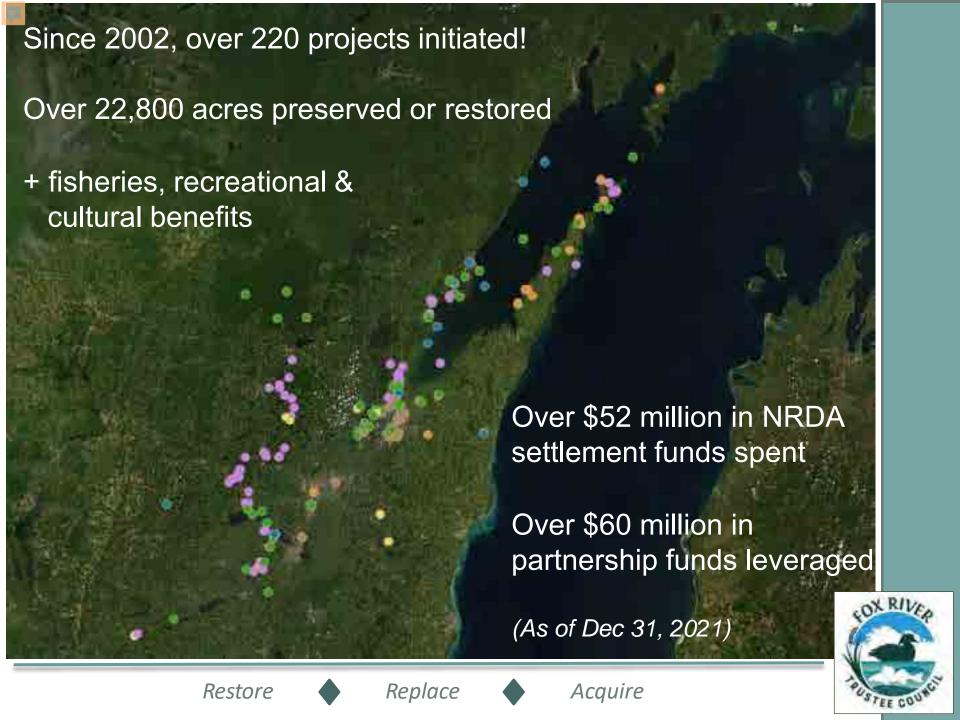






Photo credit: Ben Young, June 2020











Resources - FoxRiverNrda.org



The Fox River Natural Resource Trustee Council

The fox River Trustees support the long-term recovery, protection, and enhancement of the natural resources of the Lower Fox River and Green Bay system. Starting in the mid-1950s, paper companies and other handlers released PCBs into the Lower Fox River and Green Bay. These refeases resulted in injuries to fish, wildlife, surface water, and sediments. Through a process known as Natural Resource Damage Assessment (NRDA), the Trustees assessed these injuries and entered into settlement agreements with the parties responsible for the PCB releases. Since 2002, the Trustees have recovered 590 million dedicated to the implementation of restoration projects that compensate for PCB related injuries to natural resources. These funds have been allocated for over 140 rectoration projects thus far.









Green Bay Coastal Wetlands and Program Synergy



Green Bay West Shore Priority Coastal Marshes

Site Selection

Great Lakes Coastal Wetland Monitoring Sites

- Point au Sable (1441)
- Atkinson Marsh (1444)
- Peats Lake (1446)
- Long Tail Point (1456)
- . Dead Horse Bay (1458)
- Suamico River Wetland (1697)
- Oconto Marsh (1468)
- Peshtigo River (1469)
- Seagull Bar (1703)















Infrastructure









Vegetation Management: Invasive Species

Green Bay Phragmites management

WDNR - GLRI Phase I: 2011-2012

- 3,000+ acres
- Nearly all aerial herbicide

DU - GLFWRA Phase II: 2014-2016

- 1,300 acres retreated
- Mostly ground herbicide



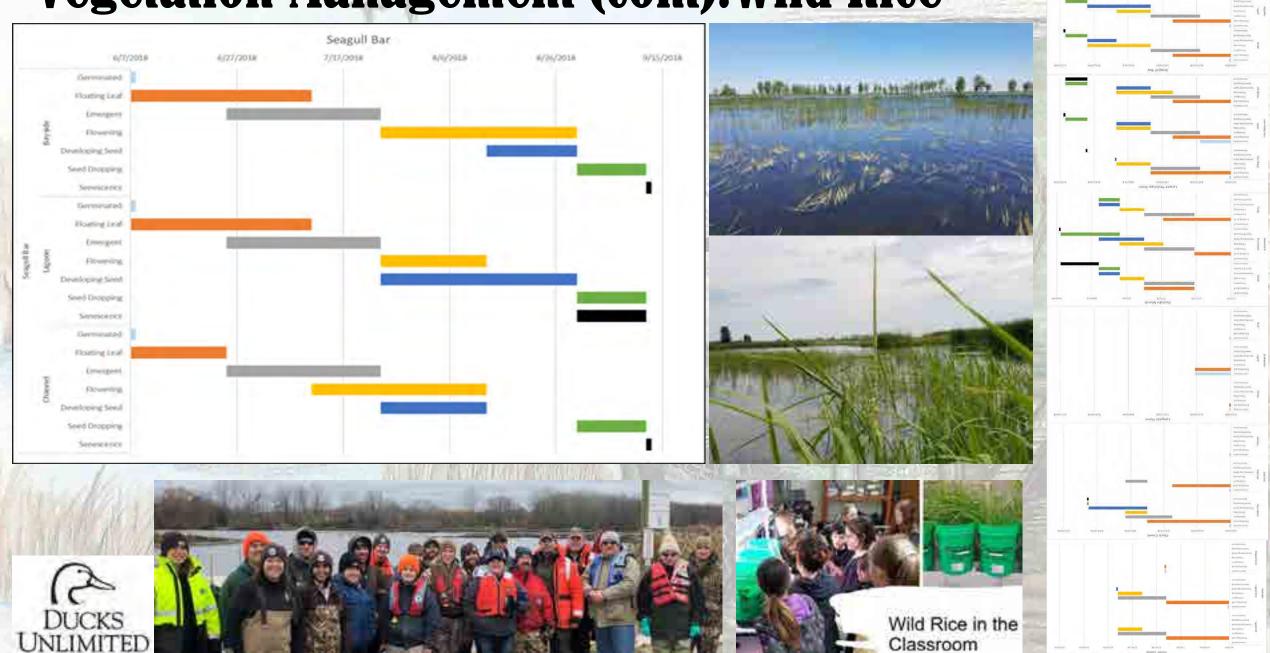








Vegetation Management (cont): Wild Rice



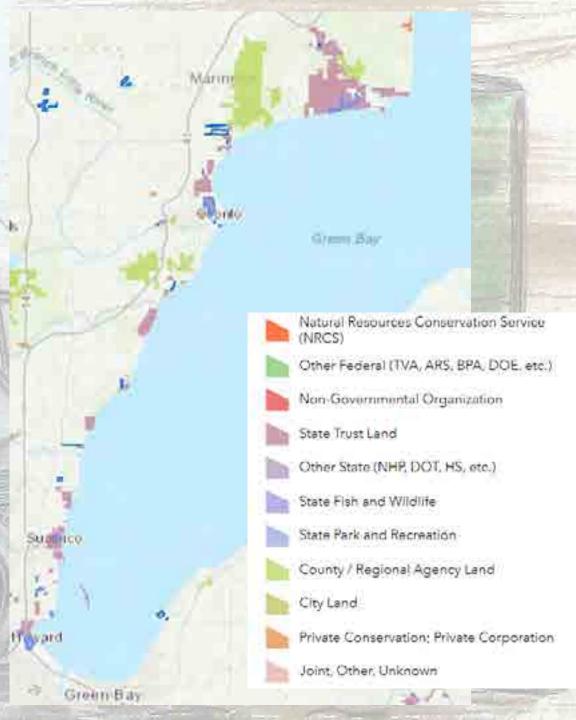
Land Protection

Village of Howard purchases 113 acres of wetlands











Establishing a Bay of Green Bay National Estuarine Research Reserve (NERR)





What is a National Estuarine Research Reserve (NERR)?

- Non-regulatory state-federal partnership focused on research and education around waters, estuaries, and coastlines.
 - Locally relevant, nationally significant

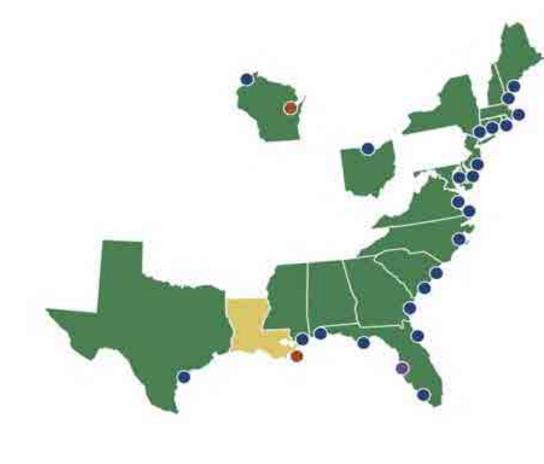


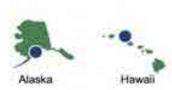
What is the National Estuarine Research Reserve (NERR) System?

A NETWORK OF 30 PROTECTED PLACES



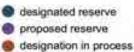










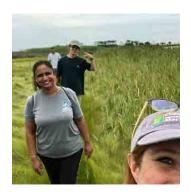


WHAT DOES A NERR DO?

- 1. Address coastal management issues
- 2. Enhance public awareness and understanding of estuaries and coasts
- 3. Platform for coordinating research, education, stewardship
- 4. Celebrate holistic water connections to our communities and ecosystems



Research



Education



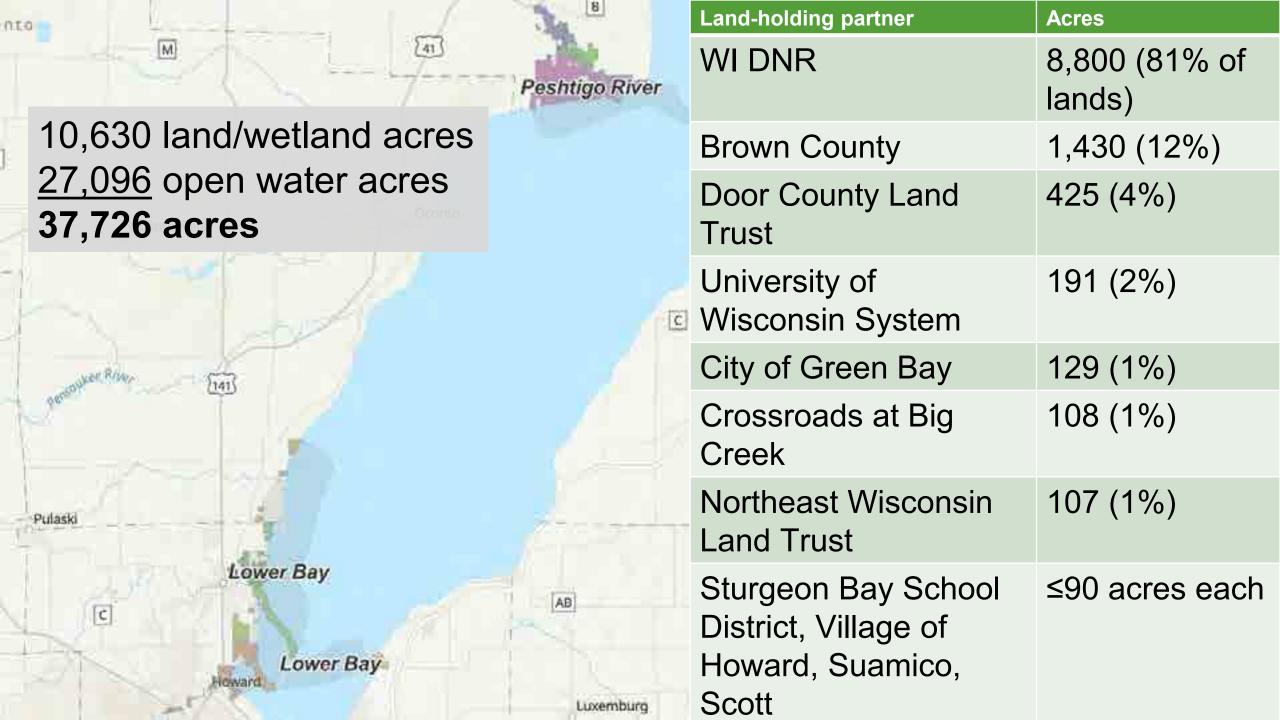
Stewardship



Training









The Bay of Green Bay Estuary is a large, dynamic, and complex system

Site selection of natural areas must capture two important gradients:

- 1. The disturbance gradient from minimally impacted habitats to areas recently restored
- 2. The south-to-north gradient capturing the nutrient-rich waters of the Fox-Wolf watershed in the south meeting the nutrient-poor waters entering the bay from Lake Michigan



Partnerships not restricted by designation boundaries













Draft Environmental Impact Statement and Draft Management Plan

- EIS (Environmental Impact Statement)
 - NOAA takes the lead in development



- Management Plan
 - UW-Green Bay takes lead in development
 - Acts a guide and foundation for the Green Bay NERR
 - Needs public input
 - Tribal considerations, state and federal agencies, community groups



Opportunities with Designation: System-Wide and National Programs

Research

- System-Wide Monitoring Program
- National Estuarine Research Reserve
 Science Collaborative
- Margaret A. Davidson Fellowship

Training

Coastal Training Program

Education

- Teachers on the Estuary
- K through 12 Estuarine Education

Stewardship















Weisreserve

Narragansett Bay Research Reserve

Jacques, C

National Estuarine Research Reserve









Bay of Green Bay NERR Designation Timeline

2022	2023	2024	w	Spring 2025
Select NERR Sites - Natural Areas	Select NERR - Education and Visitor Center location		Finding and Record of Decision	Designation
	Write NERR Management Plan			
	Prepare Environmental Impact Statement (with NOAA)	Develop NOAA-State MOUs		



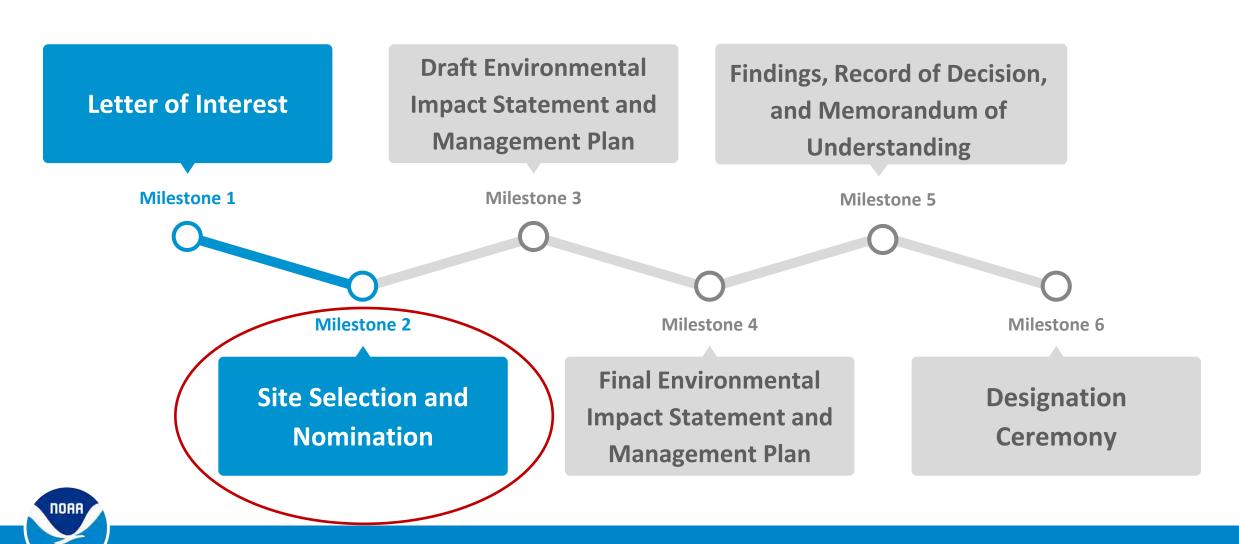




Emily Tyner tynere@uwgb.edu



Designation Process and Milestones



Management Plan Public Input

- The Strategic Plan
 - Vision and mission
 - What are the areas challenges or issues?
 - What are the best part of the area?
- Reserve System Program Foundations
 - Research
 - Education
 - Training
 - Stewardship

