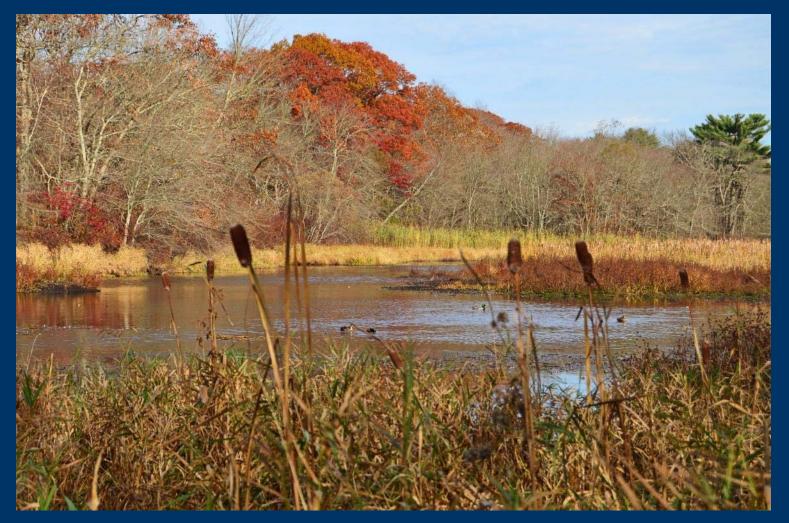
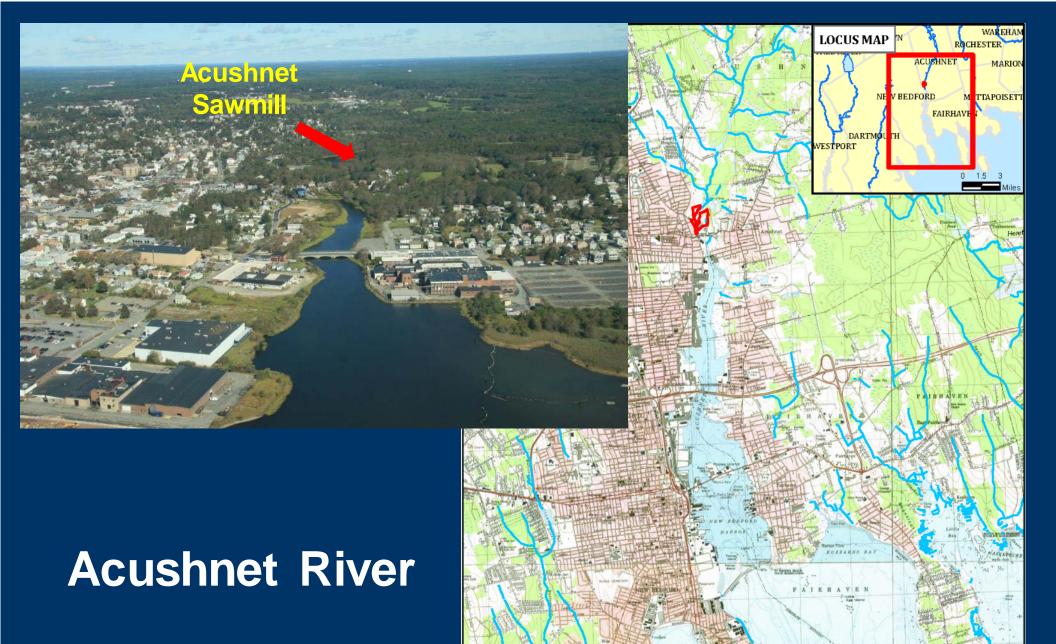
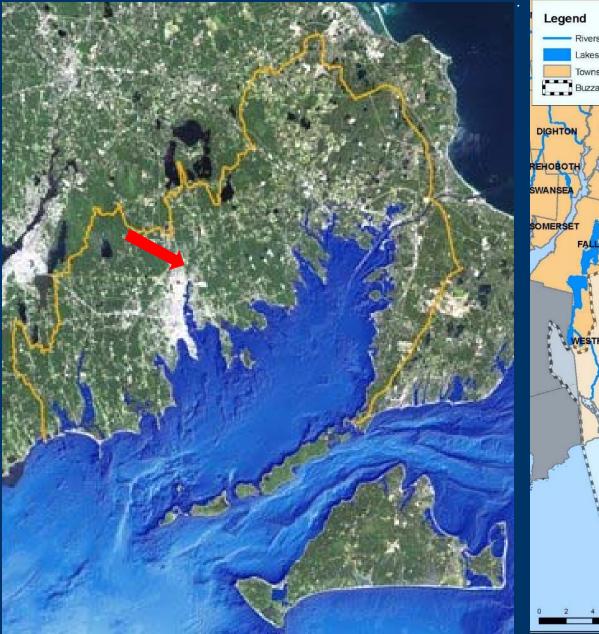
# Acushnet Sawmill Ecological Restoration Project



Sara N. da Silva Quintal, Restoration Ecologist Buzzards Bay Coalition February 27, 2014



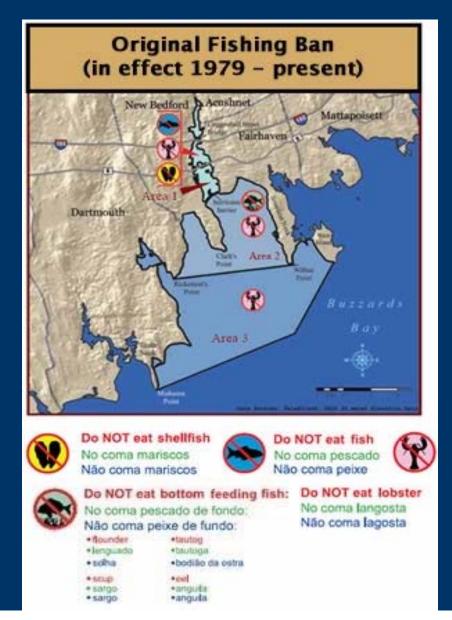
# **Buzzards Bay Watershed**





# Acushnet River and New Bedford Harbor: Centuries of Impacts

- Dams (1738 1<sup>st</sup> dam at head of river)
- Filling of Wetlands (1800's 1900's)
- Industry (whaling, mills, metalwork)
- Sewage
- Industrial Waste (metals, PCBs) New Bedford Harbor declared a Superfund site in 1982 for PCB's
- On-going PCB cleanup
- Combined Sewer Overflows
- Stormwater Runoff





# RESTORING RIVER and BAY HEALTH

### **Acushnet River Reserve**

Protect undeveloped land along the river

**Create opportunities for restoration (key parcels)** 

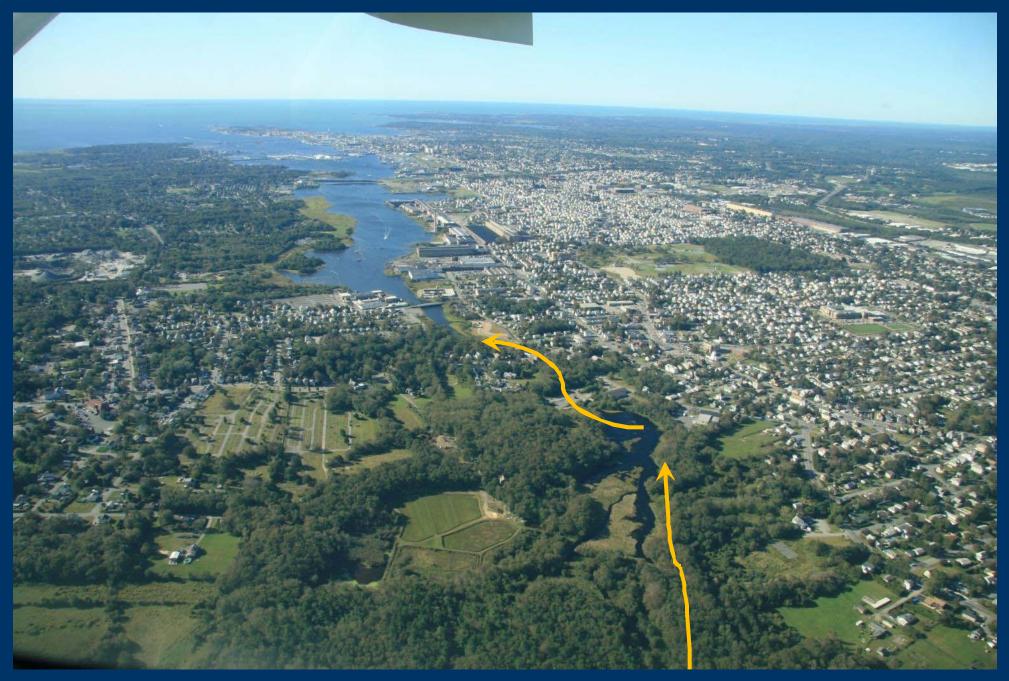
Restore ecological functions and water quality

Engage the public along the way...

Acushnet River Trail

Collaborative to connect open space along the River

# Lower Acushnet River



# **Undergoing Restoration**

# ...restoring natural filters and links to the Bay



# **History of the Acushnet Sawmill Property**



### **Previous owners include**

- Stephen Taber
- Edward Wing
- William Rotch, Jr.
- Charles W. Morgan
- Jonathan P. Lund
- Hawes Family (1867 2007)

- **1738:** 1<sup>st</sup> dam built across the river
- 1700's: Sawmill and grist mill
- 1800's: Wool-carding mill, Acushnet Paper Mill & Cotton Factory
- 1886 late 1980's:
  - Acushnet Saw Mills Co.
- Light industrial through 2011 (e.g., Hardware store, Roofing company)





# Restoration of the Former Acushnet Sawmill

- Purchased by Buzzards Bay Coalition in Spring 2007
- 2007-early 2008: Fish passage project led by NOAA





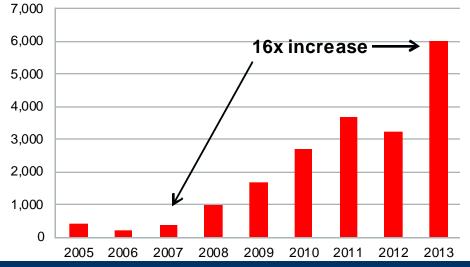
April 2007

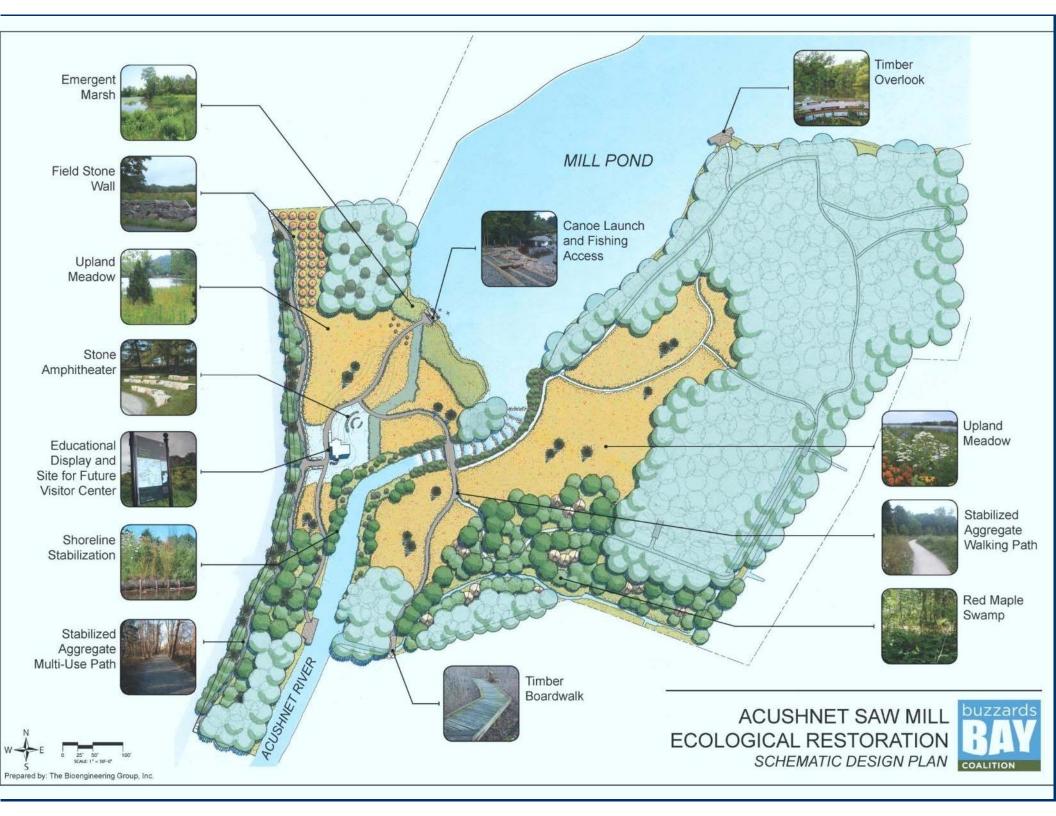
- Natural rock ramp fishway installed
- Herring numbers continue to increase:

2007: 381 fish 2013: 6,033 fish



**Acushnet River Herring Returns** 



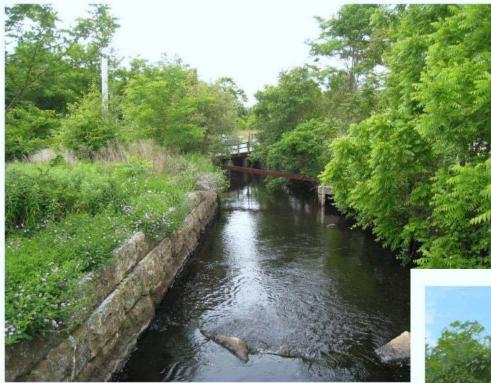




ACUSHNET SAW MILL: EXISTING VIEW FROM MILL ROAD



ACUSHNET SAW MILL ENTRY: AFTER



ACUSHNET RIVER STREAMBANK: EXISTING CONDITIONS

# Permitting (2013)

- MA Historical Commission
- MEPA Expanded Environmental Notification Form
- WPA Order of Conditions
- Chap. 401 Water Quality Certificate
- Chap. 91 Waterways License
- US Army Corps 404 Permit

### **Funding:**

 New Bedford Harbor Trustee Council (primarily)

# **Design Team:**

- EA Engineering
- Bioengineering Group



ACUSHNET RIVER STREAMBANK RESTORATION: AFTER 3 YEARS

### **Demolition:**

- industrial buildings
- pavement
- Concrete

**Demo Partner:** City of New Bedford's Department of Public Infrastructure





### Salvage:

- small office building
- granite blocks
- lumber



# **Building Move**

# **Building Move**



# **Building Move**













### VISITOR CENTER-Community Service Learning Project

- Architectural Drafting
- Carpentry
- Electrical
- Plumbing

### Old Colony Regional Vocational Technical H.S.

**Greater New Bedford Vocational Technical H.S.** 







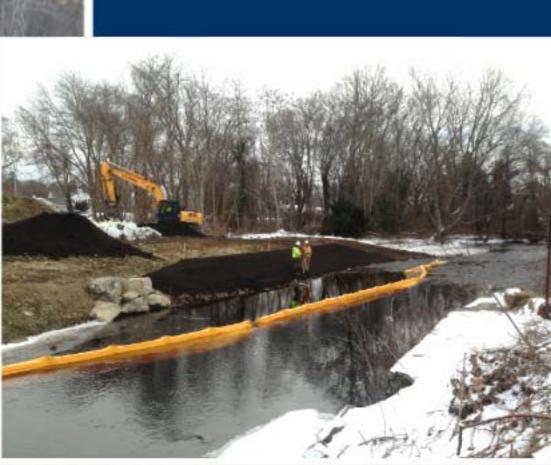
### Wetland Restoration Underway

- river bank restoration
- wetland expansion
- trails and overlooks

# **Construction Contractor:**

SumCo Eco-Contracting ightarrow

**Time of Year Restriction** March 1 – June 30







### Wetland Restoration Underway

- river bank restoration
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- river bank restoration
- wetland expansion
- trails and overlooks





# **FEBRUARY 2014**



# FEBRUARY 2014













### North Overlook: Installation of Helical Piles

# Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown



# Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown





# Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown



- Boardwalks
- Canoe Launch Steps

# **Project Partners**

- New Bedford Harbor Trustee Council
- NOAA Restoration Center
- City of New Bedford
   Department of Public Infrastructure
- Town of Acushnet
- Old Colony Regional Voc. Tech. H.S.
- Greater New Bedford Voc. Tech. H.S.
- M A Department of Marine Fisheries
- M A Department of Conservation
   & Recreation
- Buzzards Bay Garden Club
- Gurney's Sawmill

















# **Grand Opening in Summer 2014!**



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