



# “GOALS, ROLES, AND STORIES”: Vision 2032 Meeting

April 12, 2023



**NARRAGANSETT BAY  
ESTUARY PROGRAM**

# Meeting Attendees

Catie Alves, Save the Bay

Rich Batiuk, Coastwise Partners

Veronica Berounsky, Rhode Island Rivers Council

Walter Berry, NBEP Steering Committee

Giancarlo Cicchetti, EPA

Peter Coffin, Blackstone River Coalition

Stefanie Covino, Blackstone Watershed Collaborative

Donna Desrosiers, Pokanoket Tribe

Roger Desrosiers, Pokanoket Tribe

Walt Galloway, NBEP Steering Committee

Mike Gerel, NBEP

Holly Greening, Coastwise Partners

Melissa Guillet, 15 Minute Field Trips

Topher Hamblett, Save the Bay

Allen Hance, Roger Williams University

Jim Latimer, EPA ORD

Regina Lyons, EPA Region 1

John Marsland, Blackstone River Watershed Council

Haley Miller, SNEP

Dave Monti, No Fluke Charters

John O'Brien, The Nature Conservancy in Rhode Island

Heather Parry, Blackstone River Coalition

Suzanne Paton, U.S. Fish and Wildlife Service

Sarah Paulson, The Nature Conservancy in Rhode Island

Caitlin Riddick, MassDEP

Scott Ruhren, Audubon Society of Rhode Island

Jane Sawyers, RI Dept of Environmental Management

Courtney Schmidt, NBEP

Elizabeth Scott, SNEP Network

Mariel Sorlien, NBEP

Dave Taylor, Roger Williams University

Liam Van Vleet, University of Rhode Island

Max Werner, Rhode Island School of Design

Darcy Young, NBEP

# Meeting Agenda Summary

**Welcome, Introductions, and Vision 2032 Refresher** (15 minutes)

**Review of Key findings** from February conversations with NBEP Partners (30 minutes)

**Activity #1:** Which Vision 2032 objectives most need goals? (45 minutes)

**Activity #2:** How can we work together to create and adopt these goals? (45 minutes)

**12:15 Lunch Break** (30 minutes)

**Activity #3:** What are our region's most compelling environmental stories? (45 minutes)

**Group Synthesis of Goals, Roles, and Stories** (25 minutes)

**Brief Preview of Next Steps for Vision 2032** (5 minutes)

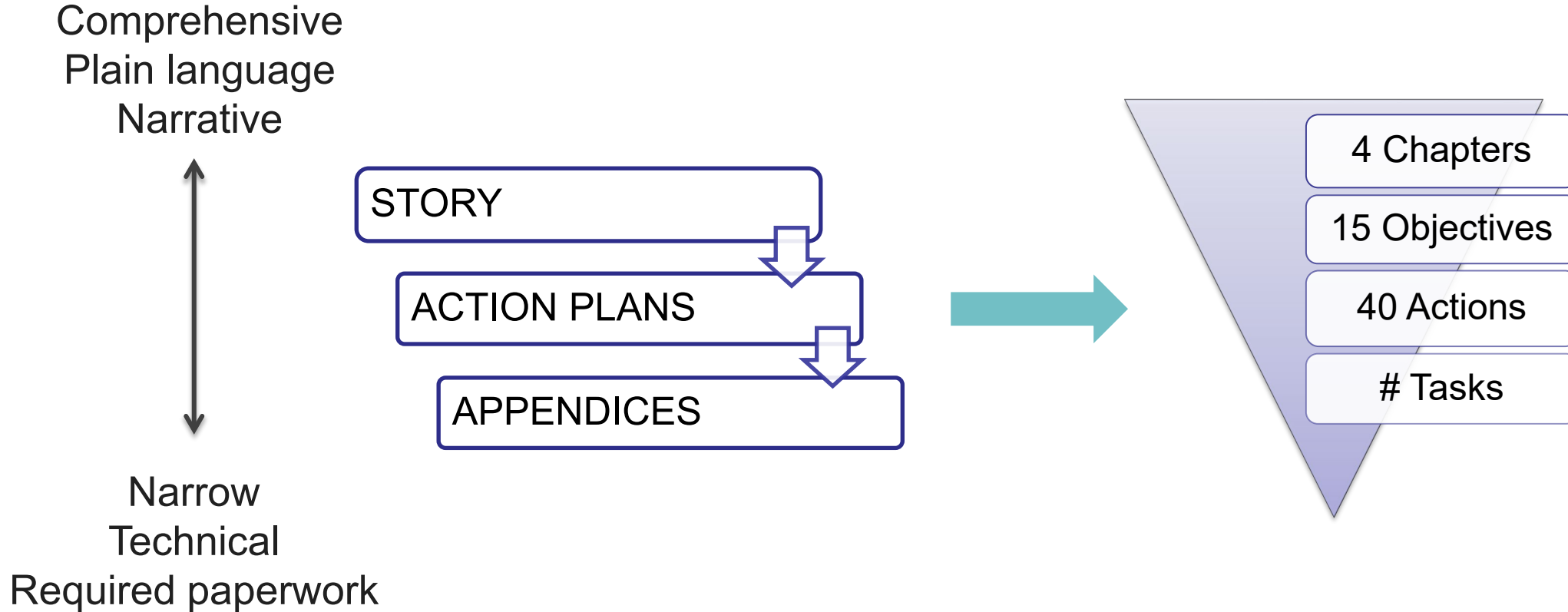
**2:00 PM Adjourn**

# Why Vision 2032?



Provide a coordinated, holistic plan to inform delivery of the Narragansett Bay Estuary Program partnership's services and funding over the next 10 years.

# Vision 2032 Plan Hierarchy



# Vision 2032 Development



1. Action is not already complete.
2. Supports CWA/NBEP mission.
3. Addresses an NBEP indicator or Vision 2032 Goal.
4. Creates measurable results.
5. Achievable in 10 years.
6. Entity available to lead.



responsiveness and resiliency to CLIMATE CHANGE



JUST, FAIR, AND EQUITABLE distribution of benefits



more SUSTAINABLE USE OF RESOURCES for generations to come

# Vision 2032 Objectives

4 Chapters

15 Objectives

40 Actions

# Tasks

## People

- **Engagement.** Increase meaningful engagement with and ownership by those most knowledgeable and/or impacted by environmental changes and proposed actions to address them.
- **Information and Storytelling.** Manage data and tell stories.
- **Governance.** Create the structures and processes that empower progress toward goals.
- **Funding.** Support those with the authority, expertise, and/or agency to act.

## Water

- **Nonpoint source pollution.** Reduce pollution that runs off the land.
- **Point source pollution.** Reduce pollution from WWTPs, CSOs, stormwater systems, and septic systems.
- **Trash.** Pursue trash-free watersheds.
- **Flooding.** Respond proactively to sea level rise and flooding.
- **Water supply.** Provide water supply to meet beneficial uses.

## Wildlife and Habitat

- **Land use.** Advance sustainable and equitable land use decisions.
- **Freshwater living resources.** Restore connectivity, function, and resilience of freshwater systems.
- **Estuary living resources.** Restore and preserve estuarine and coastal habitats.
- **Wildlife.** Protect and document biodiversity.

## Public Spaces

- **Public access.** Increase access and enjoyment of the region's common natural resources.
- **Sustainable resource use.** Protect nature through responsible use of existing natural resources.



# **“GOALS, ROLES, AND STORIES”: Vision 2032 Meeting**

**Conversations with NBEP Partners:  
Summary of Findings**



**NARRAGANSETT BAY  
ESTUARY PROGRAM**





## Who we are



**Holly Greening**  
Executive Director Tampa Bay Estuary Program. Facilitated Tampa Bay Estuary Program's successful nutrient management and seagrass recovery strategy.



**Rich Batiuk**  
Chesapeake Bay Program, Associate Director for Science, Analysis and Implementation. Instrumental in designing Chesapeake Bay Program's extensive cooperative approach to meeting Bay targets.

## **Preparing for Today's Meeting:**

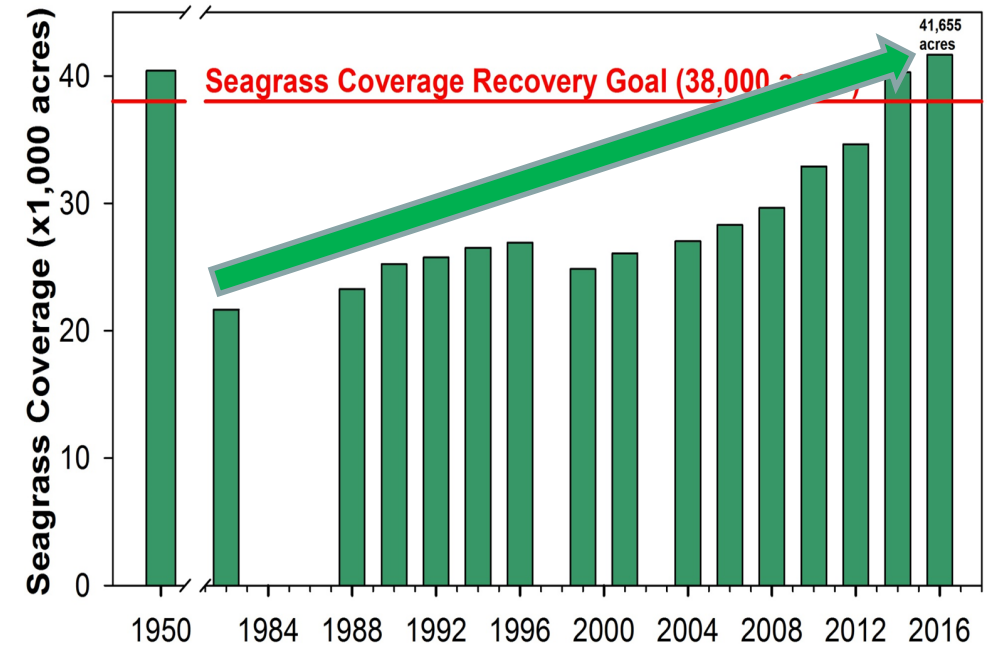
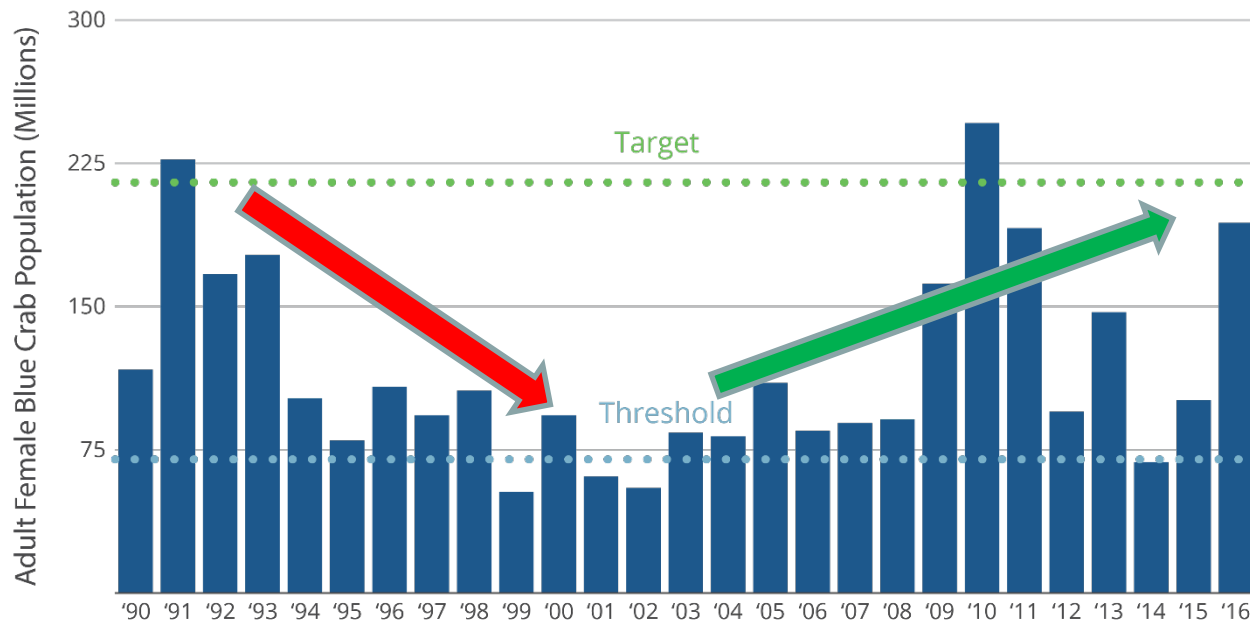
**CoastWise Partners conducted one-on-one in-person and virtual conversations with Steering Committee and Scientific Advisory Committee members**

- Shared lessons learned with Steering Committee at December 15, 2022 meeting
- Held in-depth in-person discussions with NBEP staff in December 2022 and February 2023
- Held 16 conversations with Steering Committee and Scientific Advisory Committee members during February
  - All conversations were kept confidential
- CoastWise Partners identified 15 key findings
  - Extracted partners' perspectives backing up each finding
  - The Summary of Findings and compilation of individual responses without attribution were provided to NBEP partners in mid-March
- Worked with NBEP staff to structure today's meeting agenda and objectives

# Findings Review

- The following Findings were collated by CoastWise Partners based on results of the conversations.
- Please identify any questions, comments or corrections you may have about each of these findings.
- You will be asked to identify specifics for three of these findings following the Findings Review.

# Setting Numeric Restoration Goals and Measuring Progress Towards Achievement is Critical to Success!



# Goals for Narragansett Bay and Watershed

**Finding:** Partners don't see any existing measurable environmental goals for Narragansett Bay and the surrounding watershed beyond those required through the Clean Water Act. However, Vision 2032 provides the opportunity for collectively developing quantitative restoration, protection and conservation goals which are measurable and achievable.

**Finding:** Partners want to see goals for working together more effectively.

**Comments:**

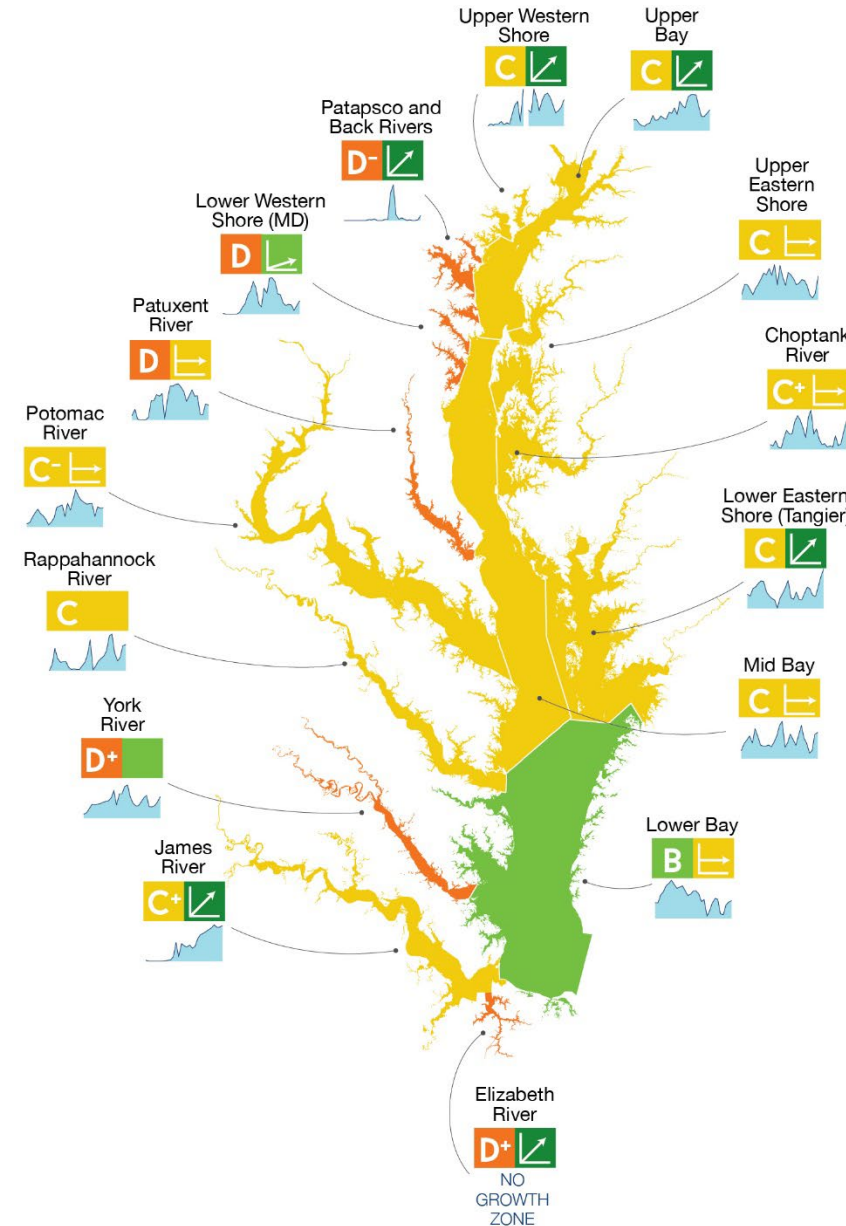
# Responsibility for Creating Goals for Bay and Watershed Restoration

**Finding:** Partners are in agreement on the need for setting goals for Bay and watershed restoration, but there are different perspectives on which entities should be responsible for setting the goals.

**Comments:**

# Telling the Public Your Bay and Watershed Story is Critical to Success!

| Year | Old Tampa Bay | Hillsborough Bay | Middle Tampa Bay | Lower Tampa Bay |
|------|---------------|------------------|------------------|-----------------|
| 1975 | Red           | Red              | Red              | Green           |
| 1976 | Red           | Red              | Red              | Yellow          |
| 1977 | Red           | Red              | Red              | Red             |
| 1978 | Red           | Red              | Red              | Yellow          |
| 1979 | Red           | Red              | Red              | Red             |
| 1980 | Red           | Red              | Red              | Red             |
| 1981 | Red           | Red              | Red              | Red             |
| 1982 | Red           | Red              | Red              | Red             |
| 1983 | Red           | Yellow           | Red              | Red             |
| 1984 | Red           | Green            | Red              | Yellow          |
| 1985 | Red           | Red              | Red              | Yellow          |
| 1986 | Red           | Yellow           | Red              | Green           |
| 1987 | Red           | Yellow           | Red              | Green           |
| 1988 | Yellow        | Green            | Yellow           | Green           |
| 1989 | Red           | Yellow           | Red              | Yellow          |
| 1990 | Red           | Green            | Red              | Yellow          |
| 1991 | Green         | Yellow           | Yellow           | Yellow          |
| 1992 | Yellow        | Green            | Yellow           | Yellow          |
| 1993 | Yellow        | Green            | Yellow           | Yellow          |
| 1994 | Yellow        | Yellow           | Red              | Red             |
| 1995 | Red           | Yellow           | Red              | Yellow          |
| 1996 | Yellow        | Green            | Yellow           | Green           |
| 1997 | Yellow        | Green            | Red              | Yellow          |
| 1998 | Red           | Red              | Red              | Red             |
| 1999 | Yellow        | Green            | Yellow           | Yellow          |
| 2000 | Green         | Green            | Yellow           | Yellow          |
| 2001 | Yellow        | Green            | Yellow           | Yellow          |
| 2002 | Yellow        | Green            | Green            | Green           |
| 2003 | Red           | Yellow           | Green            | Yellow          |
| 2004 | Red           | Green            | Green            | Yellow          |
| 2005 | Green         | Green            | Yellow           | Yellow          |
| 2006 | Green         | Green            | Green            | Green           |
| 2007 | Green         | Green            | Green            | Green           |
| 2008 | Yellow        | Green            | Green            | Yellow          |
| 2009 | Yellow        | Yellow           | Green            | Green           |
| 2010 | Green         | Green            | Green            | Green           |
| 2011 | Red           | Green            | Yellow           | Green           |
| 2012 | Green         | Green            | Green            | Green           |
| 2013 | Green         | Green            | Green            | Green           |
| 2014 | Green         | Green            | Green            | Green           |
| 2015 | Yellow        | Green            | Yellow           | Green           |
| 2016 | Yellow        | Green            | Green            | Green           |
| 2017 | Yellow        | Green            | Green            | Green           |



# Telling the Bay and Watershed Story

**Finding:** Partners see the need to tell the story of how Narragansett Bay has been improving, what's happening up in the rivers, and where are the remaining challenges.

## **Comments:**

- Also focus on trends, not just meeting the goals.
- Remember the audience when telling the story, e.g., EJ communities.
- Upper Bay improvements is one story we need to tell based on based on everything which have been accomplished in the past decades.
- Important to get the stories from people that live on and around the watershed.
- Lead with success stories-actions which have resulted in improvements.



# Unique Roles and Responsibilities of NBEP

**Finding:** Partners view the NBEP as critically important conveners, providing a safe and neutral space for bringing together different perspectives. Partners find NBEP to be key to addressing the need for a bi-state approach; as a credible source science and technical information; and as being the honest broker letting us know when we are straying from our desired path forward.

## **Comments:**

- Technical support and expertise.
- Bi-state focus is a success story in itself.
- Provide direct support to smaller actions and partners.

# Unique Roles and Responsibilities of NBEP

**Finding:** Partners view NBEP's focus on local communities as mission critical.

**Comments:**

# Need Groups of Partners Working Towards Common Goals

**Finding:** Partners want to form teams to help coordinate work towards specific goals.

**Comments:**

# Scales at Which to Address Issues

**Finding:** Partners agree that, depending on the specific issue, the scale at which to work will vary from watershed and bay-wide down to very local.

**Comments:**

# Developing Watershed and Estuarine Habitat Restoring Priorities

**Finding:** Partners see local partners' involvement as key to establishing watershed and estuarine habitat restoration priorities, with NBEP and entities with larger scale expertise providing support for development of restoration strategies.

**Comments:**

# Tracking Effectiveness of Nonpoint Source Pollution Reduction Practices

**Finding:** Partners envision EPA and the state environmental agencies taking the lead on developing and implementing systems for tracking the effectiveness of nonpoint source pollution reduction practices.

**Comments:**

# Creating and Applying Narragansett Bay and Watershed Models

**Finding:** Most partners believe developing and applying models is needed in support of enhanced decision making, but there are different perspectives on who should be responsible for model development.

## **Comments:**

- Model needs to be clearly defined.

# Protecting and Restoring Salt Marshes and Ponds

**Finding:** Partners want individuals and entities with the recognized expertise and representing local communities taking the lead for setting goals for and undertaking the actions necessary for protecting and restoring salt marshes and ponds with the NBEP playing a coordination but not an implementation role.

## **Comments:**

- Staffing up is occurring at many levels and entities. NBEP can be a bridge and convener.
- Existing efforts to be more strategic- NOAA and FWS. NBEP can play a key role in this effort. Who is doing which portion- can help identify these.



# Coordinated Monitoring of the Bay and Watershed

**Finding:** A number of partners made it clear that it is time for undertaking coordinated monitoring of Narragansett Bay and the watershed, bringing together the multitude of currently independent data collection efforts.

**Comments:**

# Need to Get 'Shovel Ready' to Receive More Funding

**Finding:** Partners see the time is now to become much more effective and efficient in receiving and investing the greatly expanded level of federal funding now available in shared water quality and habitat restoration priorities.

**Comments:**

# Vision 2032 Seen as an Opportunity

**Finding:** Partners see their collective work on Vision 2032 as an opportunity to be bold and address a number of recognized gaps and priorities.

**Comments:**

# **“GOALS, ROLES AND STORIES”: Vision 2032 Meeting**

## **Activities for Discussions and Decision Making**



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# Activity #1: Which Vision 2032 objectives most need measurable goals?

**Activity:** From the 15 objectives in the Vision 2032 Action List, identify the highest priority objectives to set measurable goals for that are most needed/feasible to set within next ten years (dot exercise).

**Exercise:** Each participant has five dots to place on priority objectives. Objectives are listed by Vision 2032 chapter.

**Rules:** 10 minutes to place dots. Each participant may place no more than 2 dots per objective. 30 minutes for group discussion.

# Activity #1 Review: Which Vision 2033 Objectives most need goals?

**Results of the prioritization exercise: the highest priority objectives most prime for goals were (in order of the number of votes received during the dot exercise):**

- |  |  |
|--|--|
| 1 – Objective 12: Estuary living resources (23 votes)    | 9 – Objective 1: Engagement (7 votes)                    |
| 2 – Objective 5: Nonpoint source pollution (20 votes)    | 10 – Objective 2: Information and storytelling (7 votes) |
| 3 – Objective 14: Public access (16 votes)               | 11 – Objective 15: Sustainable resource use (7 votes)    |
| 4 – Objective 6: Point source pollution (12 votes)       | 12 – Objective 4: Funding (6 votes)                      |
| 5 – Objective 13: Wildlife (12 votes)                    | 13 – Objective 10: Land use (4 votes)                    |
| 6 – Objective 3: Governance (11 votes)                   | 14 – Objective 7: Trash (3 votes)                        |
| 7 – Objective 11: Freshwater living resources (11 votes) | 15 – Objective 9: Water supply (1 vote)                  |
| 8 – Objective 8: SLR & Flooding (9 votes)                |  |

# Activity #1 Review: Which Vision 2033 Objectives most need goals?

Results of the prioritization exercise: the five highest priority objectives most prime for goals were:

- 1 – Estuary living resources (23 votes)
- 2 – Nonpoint source pollution (20 votes)
- 3 – Public access (16 votes)
- 4 – Point source pollution (12 votes)
- 5– Wildlife (12 votes)

## Discussion:

- Interested to see public access scoring in the top 5
- Thought flooding would score high given the connection to climate change. However, all of these topics relate to climate impacts.

# Activity #1 Review: Which Vision 2032 objectives most need goals?

## Discussion (Con't):

- What was your rationale for putting your dots on the wildlife objective?
  - The public responds to local wildlife and their restoration, from butterflies to river herring, particularly in urban communities.
  - Focus on increasing biodiversity in the face of continued climate change.
- Need to establish baselines for our streams and rivers prior to undertaking major restoration projects so we can measure and report progress as a direct result of our restoration projects.
- Even in development of TMDLs, we can focus on habitats and habitat restoration which will benefit from the desired pollutant reductions.
- Recommend we go with a 20 year horizon to achieve numerical restoration goals to provide a level of comfort to those responsible for setting and achieving these goals (based on experiences with development of the Long Island Sound TMDL).



# Activity #1 Review: Which Vision 2032 objectives most need goals?

## Discussion (Con't):

- In Tampa Bay, the partners did not establish a specific timeline for goal achievement as they did not know when they would restore seagrass.
- With fish passage, it's critical to document the blockages themselves as well as the populations which now can reach the re-opened habitats.
- Don't forget about the importance of water supply in terms of quantity and quality and its influence on where and how much we can further develop the watershed.
- Beyond wildlife, we should consider our states' water quality standards and the built-in objective of achieving balanced aquatic life populations.
- Are we working to set these goals before we finish the Vision 2032 plan or include commitments to establish the goals in the plan itself?
  - Response: we are planning to include commitments to set these goals in the plan.

# Activity #2: How can we work together to create and adopt these goals?

**Activity:** For the objectives we prioritized for goal-setting, who needs to be the lead – an existing entity (if so, who) or a new entity (if so, why)?

**Exercise:** Count off into five groups and rotate among flip charts. Write down potential leads for each prioritized Vision 2032 objective.

**Rules:** 5 minutes per chart, 20 minutes for discussion.

# Activity #2: How can we work together to create and adopt these goals?

**Activity:** For highest priority goals, who needs to be the lead – an existing entity (if so, who) or a new entity (if so, why)?

## **Pre-Activity Discussion:**

- Leads don't need to provide the staff support or carry out the convening, but they need to lead the work of the team they are responsible for.
- NBEP staff will provide the necessary staff support and work to convene the teams.

# Activity #2: How can we work together to create and adopt these goals?

## **Public Access - Lead entity ideas (asterisks indicate additional votes):**

RI DEM\*, Save the Bay\*, Washington Park Neighborhood Association in Providence, Johnson and Wales University, Woonasquatucket River Watershed Council and other designated watershed councils\*, Rhode Island Rivers Council\*, municipalities\*\*\*, RI League of Cities and Towns, RIPTA and other local transit authorities, RI DOT, RI Coastal Resources Management Council\*\*\*, Mass CZM, legislators \*\*, indigenous communities, land trusts, local watershed groups, The Nature Conservancy, National Park Service-Blackstone, Wild and Scenic Councils for Wood-Pawatuck and Taunton, Sea Grant legal, Port of Providence, Blackstone Heritage Corridor, RI Upland Land Trust Council\*, Blackstone Watershed Collaborative

Depends on the activity-paddle, swim, fish, hike, birdwatch, etc.-and locations-beach, harbor, forest, river, bikeways, greenways

# Activity #2: How can we work together to create and adopt these goals?

## Public Access - Leads/leaders:

- In RI, the CRMC has the lead for coastal public access and has already established goals for coastal public access.
- Consider the Blackstone Collaborative for the lead up in the watershed along with the Land Trust Council/Rhode Island Rivers Council (in Rhode Island).
- RI DEM open space program manager may also have a leadership role.
- Could be a role for a new entity to convene organizations with large land holdings.

# Activity #2: How can we work together to create and adopt these goals?

**Estuarine living resources- Lead entity ideas (asterisks indicate additional votes):**

RI DEM\*\*, MA DEP, MA Division of Marine Fisheries, MA Division of Fish and Game, MA DER (fish runs), MA town conservation agents, US Fish and Wildlife Service, NOAA, CRMC, NB NERR, CT NERR, EPA-ORD\*, CT DEEP, MA Town Conservation Agents, Save the Bay\*, TNC RI, URI Students and Faculty, Mass and RI Audubon, collaborative of federal/state/local (via setting TMDLs)\*, RI DEM and NBNERR collaborate (Massachusetts lead needed) and bring in EPA ORD when available to support with data\*

# Activity #2: How can we work together to create and adopt these goals?

## Estuarine living resources- Leaders/leads

- DEM, NBNERR, and MA DER broadly recognized as leads.
- Recognize we will often have separate RI, MA, and CT leads for each of these objectives and we will need to figure out how to bring all together to work together on common goals.
- Recognize the leads for the data processing/analysis will be different from the programmatic/policy leads, but we want to build off of a similar framework.

# Activity #2: How can we work together to create and adopt these goals?

## Nonpoint Source pollution- Lead entity ideas (asterisks indicate additional votes):

New entity\* – those named below lack the capacity to tackle setting and adopting a goal. Perhaps a coordinated effort among the state entities to combine state plans.

Entities that should be at the table: RI DEM Office of Water Resources, MA DEP, CT DEEP, Universities, EPA Region 1 (especially for MA), Cities and Towns, Sea Grant – suggested as lead, Save the Bay, SNEP Network, USGS for stream gauges, Septic testing center on Cape Cod, TNC, Mass and RI Audubon, Consulting firms, Stormwater innovation center\*, RI DOT, MA DOT, Blackstone Parks Conservancy, RI Energy (because digging causes issues), RI Coastal Resources Center, RI Green Infrastructure Coalition (includes Audubon, TNC, Conservation Districts)

Notes: Capacity is a big question. Hire private firms? Implement a TMDL? 604b for funding? Prioritize this discussion – lots of money is out there to implement.



# Activity #2: How can we work together to create and adopt these goals?

## Nonpoint Source pollution- Leaders/leads

- RI DEM, MA DEP, CT DEEP recognized as likely leads
- Consider convening the listed agencies and organizations to help define the lead/leaders
- Note that the listed actions under this objective are not actions that the state agencies carry out. Response: focus for this activity is who is going to set the goals beyond the CWA related goals, not who is going to carry out the implementation actions.
- Need to identify other goals for nonpoint sources beyond the Clean Water Act related goals—e.g., retention of water up in the watershed based on habitat restoration and protection

# Activity #2: How can we work together to create and adopt these goals?

## Point Sources - Lead entity ideas (asterisks indicate additional votes):

RI DEM, EPA Region 1, MA DEP, CT DEEP, NBC and other operators (need more ongoing education), Municipalities (permits, land use, upgrade funding, wastewater treatment and septic title V regulations, Woonsocket and Worcester need assistance) CRMC, Save the Bay

Notes: enforcement & accountability for this goal?; operators need ongoing education; municipalities (especially Woonsocket, Worcester) need assistance and/or enforcement actions; when thinking about water quality metrics, consider greater monitoring, clarity\*, turbidity\*; this goal may overlap with nonpoint source pollution goal – think in terms of regulated vs. non-regulated; tell the story about changes in water quality from point source upgrades – are we doing a good job? More areas are open for recreation; recognize that the goals developed may be very different from current state water quality standards, for example they may be ecological outcomes rather than loads or TN etc.

# Activity #2: How can we work together to create and adopt these goals?

## Wildlife - Lead entity ideas (asterisks indicate additional votes):

CT DEEP; MA DMF, Mass Wildlife, DEP; RI DEM-Marine Fisheries; RI Natural History Survey\*; USFWS; watershed groups and land trusts; TNC\*; Audubon (RI and MA)\*; NBEP Science Advisory Committee; NOAA; Atlantic States Marine Fisheries Commission; Atlantic Coast Joint Venture; Ducks Unlimited; Fisheries community; indigenous communities\*, EPA/ORD, University Research Community\*, RI Saltwater Anglers Association, Roger Williams Park Zoo

Notes: need federal and state entities working together\*; state wildlife plans have goals; dividing into managed vs. unmanaged may be a good start; Mass BioMap is a great tool\*, TNC's regional resilient habitats map\*

# Activity #2: How can we work together to create and adopt these goals?

## Wildlife – Leaders/leads:

- Need to consider different leads depending on the group of wildlife being considered-e.g., fisheries has existing structures for addressing goal setting.
- States and federal agencies have existing goals for listed species in their state wildlife plans and federal listed species, respectively.
- RI/MA Audubon have the stories about bird populations nailed down.
- MA BioMap is clearly a starting point for this work. Would like to see it expanded.
- Managed species are well documented and ‘taken care of’, perhaps we should focus on those species which are not currently ‘managed’.
- TNC resilient landscape tool is very useful for application at a landscape level.

# **Activity #3: What are our region's most compelling success stories and challenges?**

**Activity:** List the Narragansett Bay Region's most compelling stories – success stories and challenges – for each Vision 2032 chapter.

**Exercise:** Count off into four new small groups and rotate among 4 flip charts (1 per Vision 2032 chapter).

**Rules:** 5 minutes per chart. Return to seats at 1:30 for discussion.

# Public Spaces Stories

- Successes: lots of visitors; tons of volunteers; bikeways and greenways; Wild and Scenic Wood-Pawcatuck and Taunton Rivers; boat ramp improvements and restoration of fishing piers; protected land open to the public; acknowledgement of co-benefits of public access; green bond passage for open space; increasing public access and public rights to the shore; pocket parks; state beaches are popular and see fewer closures
- Challenges: lack of clear shoreline definition (MHW) in RI; complete the MA portion of the Blackstone bikeway; RI CRMC challenges; equitable access to nature – public transportation, parking ordinances that block access, signage, outreach so that people know about opportunities; maintenance; trash; access to sacred places for tribes; freshwater access, especially lacking in the Blackstone; increasing numbers of visitors, especially tourists, have negative impacts on quality of life for local residents
- Other stories: create more/new access points and places; need younger volunteers (liability barriers for some); permitting and regulations across jurisdictions; user conflicts

# People Stories

- Successes: Community/citizen science (spadefoot toad) – longevity of observations and historical data (WPWA); environmental education programs; individual behavior changes e.g. rain gardens; community projects; Blackstone River revival is a story about people; remote work reducing traffic emissions, more time to spend in nature; recreation in upper Bay due to water quality improvements; Blackstone water quality data map & data sharing; Massachusetts CPA funds – people taxed themselves for conservation; identity of watershed vs. just the states (NBEP success); acknowledgment of and efforts to address disparities; NBEP funding for capacity/project development; new recreational access points bring in more people to care
- Challenges: individual and community behavior change e.g. landscaping; access for BIPOC communities to green spaces; inclusive and multilingual information; environmental injustice; funding; new climate change policies e.g. forests and solar; stormwater governance and resources at state and local levels – lack of enforcement; compiling monitoring data and research projects to tell comprehensive stories; loss of long-term knowledge via staff retirements and loss of traditional ecological knowledge (these are particularly time-sensitive); how to get youth interested in nature when so much of their lives happen online
- Other stories: offshore wind development – fisheries; how to assess people's attitudes, motivations, and perceptions

# Water Stories

- Successes: wastewater treatment facility upgrades; nitrogen and hypoxia upgrades; CSO improvements; quahogging in the upper Providence River; river improvements – WWTF, delisting for P in Pawtuxet, Blackstone, and Woonasquatucket; reduction in legacy pollutants (metals, PCBs, etc.) to the Bay; more collaborative data collection efforts across state lines; Blackstone water quality monitoring; aquaculture commercial success; outdoor recreation along urban rivers; Greenwich Cove delisted for rec? based on NPS/stormwater projects; Mount Hope Bay impairment for fish removed
- Challenges: development; tourism & water demands; invasive species – clams, water chestnut; emerging pollutants (PFAS, pharmaceuticals, plastics, etc.); managing stormwater for water quality and flooding – difficult because we don't work at the watershed level or the site level(?); climate change – when to move away from the water; warming water and species changes; aquaculture siting – best use of space?; capacity at all levels to run programs at RI DEM; dam removal – people like impoundments and sometimes legacy contaminants prevent removal
- Other: Providence daylighted urban rivers, which resulted in some good and some bad (mall); tribal keepers losing access to water
- Additions to Water Stories: Daylighting of streams and moving rivers; Changes are successes in some areas, challenges in others (dams); Stories are best told as people stories -when we tell stories, talk about effects on people.



# Habitat and Wildlife Stories

- Successes: opening new shellfish areas; reducing nitrogen in the Providence River; increases in quality of benthic habitat; more oxygen and fewer fish kills in the bay; water quality in the Blackstone and other rivers; diamondback terrapins; osprey; bald eagles; dam removal and fish passage; protected habitats; saltmarsh restoration; RI started investing in habitat restoration; increased funding for MA DER; Narducci center – outdoor habitat classrooms for children
- Challenges: bringing herring back; habitat corridors/migration, including climate migration; need to improve green space in urban areas; bird biodiversity; restore floodplains; saltmarsh; eelgrass; sea level rise; hydropower alterations; development; saltmarsh sparrow (especially because it's an indicator species for saltmarsh-dependent species); warming water; invasive species; contaminated sediments; oxygen levels in the salt ponds; pollinator decline; coastal erosion; wind farms; protecting tribal rights to subsistence fishing; shellfish restoration; marine dissolved oxygen in Mass; illegal pet trade/poaching; horseshoe crabs; permitting for restoration
- Other: subsistence fishing; solar fields; wind farms; charismatic wildlife species

# What's next for Vision 2032?

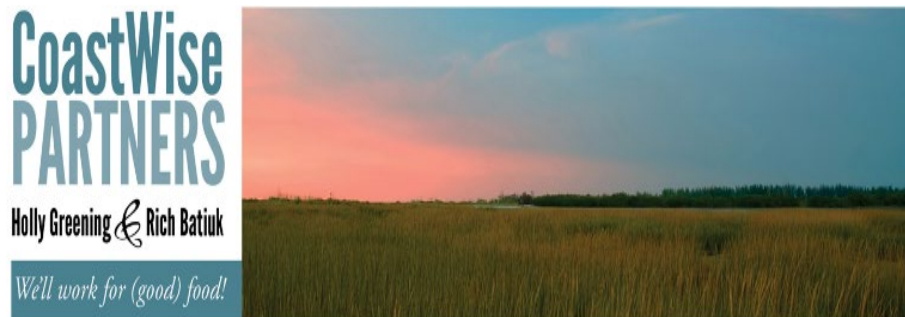


# Thank you!

Rich ([richbatiuk@gmail.com](mailto:richbatiuk@gmail.com))

Holly ([hgreening@coastwisepartners.org](mailto:hgreening@coastwisepartners.org))

Darcy ([dyoung@nbep.org](mailto:dyoung@nbep.org))



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# Activity 2: Wildlife, Estuary Living Resources, and Point Source Pollution Goal Leads

**ROLES: Wildlife / biodiversity (Obj. 13)** (3)

CT: DEEP (Cheryl/lead)  
 MA: DMF, Mass Wildlife ... help: DEP  
 RI: DEM, Div Fisheries, Nat'l History Survey } need + fed + state together  
 Both: USFWS (listed + at risk / declining sp.)  
 help: watershed groups + land trusts, TNC (both nonprofits)  
 conservation agents

\* Audubon (RI + MA) - Bird stuff  
 NBEP Science advisory committee

NOAA / Atlantic States Marine Fisheries Comm / Council  
 ACJV (Atlantic Coast Joint Venture)  
 Ducks Unlimited  
 Fisheries - community  
 Indigenous communities \* TEK (TRADITIONAL ECOLOGICAL KNOWLEDGE)  
 RI Natural History Survey → create parallel for estuarine wildlife / biodiversity \* critical science  
 EPA/ORD  
 University research communities \* BEE SURVEY / DRAGONFLY SURVEY  
 URI  
 RISD - LANDSCAPE ARCH.  
 NCSS - Nature, Culture, Sustainability

**COMMUNITY SUPPORT**  
 iNATURALIST  
 RI SALT WATER ANGLERS ASS. (RECREATIONAL ANGLERS)  
 \* RWPZP - EASTERN COTTONTAIL / AM BURYING BEETLE data source

Divide up?  
 Fisheries - resub  
 Other wildlife - unregulated  
 Audubon bird

State Wildlife Plans + Fed fish  
 have goals  
 @BIDMAP tool managed / unregulated may be good start  
 TNC - resilient habitats map regional

**ROLES: Estuary living resources (Obj. 12)** (2)

\* DEM/DEP MA DMF Div Fish + Game  
 Jason McNamee + Connor McNamee  
 USFWS Suzanne Paton  
 NOAA Jim Turek Danielle Perry  
 CT DEEP  
 MA DER (fish runs)  
 MA town conservation agents

\* CRMC Leah Feldman  
 \* Save the Bay  
 - Wileen Ferguson  
 - Ben Grasper  
 TNC  
 - John O'Brien  
 - coastal restoration team  
 URI - STUDENTS  
 - over-see staff  
 \* Collab Fed/State/Local  
 ↳ setting/enforcing TMDLs  
 \* DEM/NERRS - Habitat restoration  
 Mass lead needed  
 Bring in EPA/ORD when available support w/data

TURTLE MONITORING  
 Audubon Scott Ruhren

**ROLES: Point source pollution (Obj. 6)** (4)

CT DEEP  
 DEM (RI) ENFORCEMENT? + accountability  
 EPA REGION 1  
 DEP (MA) ↳ RI ENERGY - SOLAR FIELDS  
 NBC + other  
 Municipalities  
 CRMC COASTAL RESOURCES MANAGEMENT COUNCIL  
 STB  
 → wastewater treatment + septic Title V regs  
 PERMITS LAND USE UPGRADE FUNDING  
 RI ENERGY - SOLAR FIELDS  
 ↳ Sept. Woonsocket! Needs help! + follow up w/enforcement traction  
 ↳ + Worcester CSO! Need help!  
 → have WA monitoring, clarity, turbidity as metric for WA  
 \* Tell story re: changes in WA fr. point sources → are we doing a good job? more areas open for recreation

↳ may overlap w/NPS  
 ↳ septic stormwater, as well as PS

↳ need ongoing education

# Activity 2: Public Access and Nonpoint Source Pollution Goal Leads

ROLES: Public access (obj. 14) ①

PLAYERS

|   |  |  |
|---|--|--|
| <u>PORT AUTHORITY</u>   | indigenous Communities                                       | BEACH HARBOR FOREST/RIVER  |
| * DEM in upland MA DCR  | Sea Grant legal  | (depends on activity - paddle/swim/fish/hike/birdwatch/etc. + urban parks/green - trail systems) |
| * SAVE THE BAY  | Blackstone Heritage Corridor                                 | Bike ways Green ways   |
| WPNA / NEIGHBORHOOD ASS. (with park neighborhoods ass.)               |  | Coastal access is different from upland  |
| J&W Johnson + Wales   |  | * upland Land Trust Council in RI  |
| WRWC (other watershed organizations)                                  |  |  |
| * <b>MUNICIPALITIES</b>   | (Providence Parks - one) League of cities + towns? - just RI | Mass role in Blackstone  |
| RIPTA / local transit authorities                                     |  | National Park Service (Blackstone)   |
| RI DOT  |  |  |
| * <b>CRMC</b> (that is their charge has set a goal coastal resources) |  |  |
| * <b>Legislators</b> (define enforce)                                 |  |  |
| Land trusts   | Wild + Scenic Councils for Wood-Pawcatuck + Taunton          |  |
| Local Watershed groups  | Biomap for Mass Wildlife                                     |  |
| TNC   |  |  |
|   |  | RI Rivers Council  |

ROLES: Nonpoint source pollution (obj. 5) ③

\* new entity - below lacks capacity to actually tackle this - need holistic understanding of flood/stormwater - need to reframe goals to reflect better understanding

→ capacity? Implement TMDL private firms? 604B funding?

→ prioritize this discussion - \$\$\$ are there to implement

→ need data in MA/Blackstone (604B/INBP)

At the table

**RIDEM MADEP** + CI DEEP

Joint or with coord. to combine State Plans

Office Water Resources

Mini Ordinances

USGS - stream gauge

SEPTIC TESTING CENTER ON CAPE (MASTC)

SNEP Network

TNC AVOIDAN Consulting firms

Stormwater Innovation Ctr \* + UNH SW Center - Jamie Houle

RI/MA DOT

BLACKSTONE PARKS CONSERVANCY

Sea Grant + - Lead?

Save the Bay Fisheries (?)

Coastal Resources Center (CRC) @ CRP

RI ENERGY - DIGGING CAUSES ISSUES!

RI infrastructure bank

RI GREEN INFRASTRUCTURE COALITION

AVOIDAN, TNC, CWR, DISTRICTS

# Activity 3: People and Habitat & Wildlife Stories

| CHAPTER 1: PEOPLE STORIES  |  |
|--|--|
| <p>Successes</p> <ul style="list-style-type: none"> <li>- acknowledgment of efforts to address disparities (BL)/Justice 40</li> <li>- Environmental ed - Blackstone revival is a people story - SNEP</li> <li>- individual behavior change (rain gardens) - recreation in upper Bay due to WR improvements</li> <li>- Black stone WQ data map - data sharing - identity of watershed vs. just states (NEEP success)</li> <li>- MA CPA funds - people taxing themselves</li> </ul>  | <p>community science (spadfoot toad) - longevity of observations &amp; historical data (W PWA) - remote work reducing traffic/missing time to spend in nature </p> |
| <p>Challenges</p> <ul style="list-style-type: none"> <li>- behavior change (landscaping, etc.)</li> <li>- access for BI POC communities to green spaces</li> <li>- EJ concerns - inclusive language</li> <li>- multilingual/equitable information</li> <li>- Funding! esp. throughout project development</li> <li>- new climate change policies - forests &amp; solar</li> <li>- compiling monitoring data &amp; research projects to tell comprehensive stories</li> <li>- loss of long-term knowledge (staff retirement)</li> <li>- loss of traditional ecological knowledge</li> </ul> |  |
| <p>time sensitive</p>  |  |
| <p>Other</p> <ul style="list-style-type: none"> <li>- new access points bring more people in to care</li> <li>- offshore wind energy development - fisheries</li> <li>- youth in nature - culture change</li> <li>- sharing knowledge between communities (story telling)</li> <li>- how to assess people's attitudes/perception</li> </ul>  |  |

| CHAPTER 3: HABITAT & WILDLIFE STORIES   |  |
|---|--|
| <p>Successes</p> <ul style="list-style-type: none"> <li>- opening new shellfish areas</li> <li>- reducing nitrogen in Providence river</li> <li>- increases in seagrass, quality of benthic habitat</li> <li>- more oxygen, fewer fish kills (bay)</li> <li>- Blackstone water quality, river water quality in general</li> <li>- diamondback terrapin</li> <li>- osprey, bald eagles</li> <li>- dam removal, fish passage</li> <li>- protected habitat</li> <li>- saltmarsh restoration (thin layer deposition)</li> <li>- RI started investing in habitat restoration</li> <li>- Narducci center - outdoor habitat classrooms for children</li> </ul> | <p>mass DER increased funding</p>  |
| <p>Challenges</p> <ul style="list-style-type: none"> <li>- bringing herring back</li> <li>- habitat corridors/migration</li> <li>- need to improve greenwater in urban areas</li> <li>- bird biodiversity</li> <li>- restore floodplains</li> <li>- saltmarsh + eel grass</li> <li>- sea level rise</li> <li>- hydro alterations</li> <li>- development</li> <li>- saltmarsh sparrow</li> <li>- warming water</li> <li>- invasive species</li> <li>- contaminated sediments</li> <li>- oxygen levels (salt ponds)</li> </ul>  | <p>climate change migration pollinator decline coastal erosion wind farms protecting tribal rights to subsistence fishing shellfish restoration (self sustaining oyster reef) marine dissolved oxygen (MA) illegal pet trade/poaching horseshoe crabs ponds, impoundments permitting for restoration</p> |
| <p>Other</p> <ul style="list-style-type: none"> <li>- subsistence fishing</li> <li>- solar fields</li> <li>- wind farms</li> </ul>  |  |

# Activity 3: Public Spaces and Water Stories

CHAPTER 4: PUBLIC SPACES STORIES

COLE OF WATER

STATE BEACH PROGRAM  
LESS CLASH

Successes

- BIKEWAYS / GREENWAYS
- WILD SCENIC - PAUCAJUC / TAUNTON
- BOAT RAMP IMPROVEMENTS / RESTORATION
- LAND PROTECTION OPEN TO PUBLIC
- GREEN BOWD PASSAGE FOR OPEN SPACE
- INCREASING ACCESS / PUBLIC RIGHTS TO SHORE

AMENITIES

COMPLETE MAINTENANCE / BIKEWAY

Challenges

- LACK OF SURFACED DEFINITION (MHW) - R1
- CRMC
- EQUITABLE ACCESS (E), MOBILITY
- MAINTENANCE / TRASH
- ACCESS TO SACRED PLACES BY TRIBES
- PARKING ORDINANCES BLOCKING ACCESS
- CREATING MORE / NEW ACCESS
- YOUNGER VOLUNTEERS (YOUNGER THAN MIKE)
- PERMITTING / REFS CROSS JURISDICTIONS
- USE CONFLICTS
- INSURANCE / BARRIERS

URBAN PERKET PARKS

PARK CORRIDOR

FISHING PIER

ACCESSING CO-BENEFITS

LOCAL

PUBLIC TRAILS, SIGNAGE → BEACHES

OUTREACH → PEOPLE KNOW ABOUT THEM

WATER QUALITY & FISH SUPPLY

upgrades WWT / Nitrogen ↓ Hypoxia ↓

CSO improvements → quahogging in lower Prov Riv

River improvements → WWT improve, delist for P in Pawtucket + Blackstone, + Wanne (+ CSO)

reduction in legacy pollutants to Bay (metals, PCBs, etc)

more collaborative data collection efforts across state lines; Blackstone aqua culture - can do it, and economic success

outdoor recreation along urban rivers

Greenwich case delist for rec based on NPI/Stormwater projects

urban/housing development + clean water availability

invasives → clams, water chestnuts (success + challenges)

emerging pollutants (PFAS, pharma, plastics, tires crumbles)

managing storm water for WQ + flooding → hard b/c we don't work at watershed level or site level

Climate → when to move away from water vs other solutions

warming water + spp change → changes to bait fish + attract large animals close to shore (herring, dolphins, sharks, etc)

aquaculture siting - but use of space? \*restoration permitted as aquaculture challenge to see

Capacity at all levels to run programs at DEH, have municipalities to do projects

dam removals → ppt like impairments + legacy contaminants - can't remove

Success: dam removals are reconnecting habitats

MHB - impairment for fish removed (multi-level effort)

Providence - daylighted urban rivers + came w/ waterfire, econ devel, + a mall...

tribal keepers losing access to water

PA's willingness to do this work

\*when telling stories tell them to focus on benefit to pt / way care?

Successes

WQ ↑

collab data ↑

Current tourism + H2O demands

Challenges

Stormwater access climate

Other