River and Stream Continuity Implementation Plan

Last Revision 5-24-22

Objective: Support municipal and non-municipal owners in upgrading barriers to improve habitat continuity, increase flood resiliency and restore floodplains.

Advisory Committee

- Neil Shea, Chair
- Kaitlyn Shaw, NOAA
- Ben Gahagan, Mass DMF
- Rob Dalton, Native Fish Coalition, Andover
- Scott Jackson NAACC, UMass
- Brian Kelder, DER
- Carl Soderland, TU Nor'East

Lead Partners:

Coordinator: To be determined, with assistance from IRWA

Watershed Associations: Parker River Clean Water Association, Chebacco Lake Watershed Association

Supporting Partners:

PIE Continuity Group: Division of Ecological Restoration, Division of Marine Fisheries, NOAA, USFWS, Audubon, Department of Fish and Game, MA Stream Continuity Partnership, Trout Unlimited (project specific), Sea Run Brook Trout Coalition (project specific).

Municipal Department of Public Works and conservation Commission Staff

This implementation plan will support the following actions identified in the PIE-Rivers Action Plan:

Action 44: Remove Migration and Flow Barriers

Improve aquatic habitat connectivity and restore natural flow regime through various methods including dam removal, culvert replacement/upgrade, and fishways as necessary with focus on barriers identified as high priority for both habitat and flooding impacts. Changes in flow capacity for structures such as culverts and bridges should take into account position in the watershed and potential effects on upstream and downstream structures.

Action 12: Prioritize Aquatic Barriers

Identify and prioritize barriers including physical (dams, culverts, etc.) and "soft" barriers (temperature, DO, chemical, behavioral) that may be limiting critical aquatic organism migration. For physical barriers, include analysis of risk of infrastructure failure and impacts on flood risk (upstream and downstream) and community resiliency in prioritization where feasible and applicable.

*Action 12, Prioritize Aquatic Barriers has, for the most part, been completed through the <u>Great Marsh Barriers Assessment</u> Work, these strategies will build off of the extensive prioritization work from this study. "Soft" barriers were not identified as part of this work.

Progress metrics: # proposals submitted, # proposals received, # barriers upgraded, # municipalities & other owners participating

2021-22 PIE-Rivers Partnership River and Stream Continuity

Timeline and related activities:

Timeline and related activities.						
		2021	2022	2022	2022	
Project Timeline	Lead Partner	Sep-Dec	Jan-March	April-June	Jul-Sep	
Activity 1: Partner engagement, team & material development						
Task 1: Enlist PIE Watershed Representatives						
(to be tasked with watershed-level municipal						
engagement and priority list development						
using continuity tools).	Coordinator					
Task 2: Enlist PIE Continuity Group partners,						
to be comprised of state, non-profit and						
Federal partners capable of providing						
technical and/ or financial assistance for	0 11 1					
barrier projects.	Coordinator					
Task 3: Develop an implementable, repeatable and modifiable one-page Barrier						
survey for DPW and Conservation						
Commissions to fill out for 5 town priorities	PIE					
(When possible, Coordinators administer in-	Continuity					
person or over the phone).	Group					
Task 4: Help towns incorporate priorities	p					
identified through this process into their MVP						
plans	Coordinator					
Task 5. Conduct Town consultant inventory.						
Develop pre-approved vendor list of						
consultants with expertise, develop						
framework for consultant training &						
engagement.	Coordinator					
Activity 2: Municipal engagement,						
prioritization, site visits and dissemination						
Task 1: PIE Watershed representatives	Watershed					
engage municipal staff (Conservation	Associations,					
commission/ DPW staff) to provide feedback	Municipal staff					
(preferably in person).	Stall					
Task 2: Utilize <i>Town Rep</i> program to promote continuity work with Town staff.	Town Reps					
Task 3: Train PIE Watershed representatives	Town Keps					
in use of continuity tools for priority list						
development and ensure familiarity with the						
Great Marsh Barriers Assessment results.	Coordinator					
Tools 4. DIS Materials of Degrees statics						
Task 4: PIE Watershed Representatives compile municipal feedback and utilize tools						
1	Watershod					
to develop Town priority lists for their respective watershed.	Watershed Associations					
·	713300101113					
Task 5: PIE Watershed Representatives send						
priority lists to coordinator to combine for	Watershed					
delivery to PIE Continuity Group.	Associations					
Task 6: Coordinator visits proposed high						
priority sites if needed.	Coordinator					
Task 7: Coordinator combines PIE-rivers	Coordinator					
watershed list and distributes to PIE						
Continuity Group for review.	Coordinator					

Task 8: PIE Continuity Group reviews list and			
provides available technical assistance &			
proposed funding ideas for priority sites	PIE		
based on rapid assessment forms and	Continuity		
continuity tools.	Group		

2020 PIE-Rivers Partnership River and Stream Continuity Timeline and related activities continued:

				2021	
			2021	May-	2021
Project Timeline	Lead Partner	2020	Jan-April	August	Sept- Dec
Activity 3: Assist municipalities with					
funding proposals and available technical					
assistance					
Task 1: Coordinator maintains funding					
availability page on PIE-Rivers website and					
provides updates to PIE Watershed	6				
Representatives and Town Reps.	Coordinator				
Took 2: DIE Watershed Benresentatives					
Task 2: PIE Watershed Representatives disseminate information on available	Watershed				
funding sources to municipal staff.	Associations				
randing sources to manicipal start.	ASSOCIATIONS				
Task 3: PIE Continuity Group provides	PIE Continuity				
technical assistance, where applicable.	Group				
Task 4: PIE Watershed Representatives aid	·				
Municipal staff in applying for funding and	Municipal staff,				
aid with technical matters throughout	Watershed				
process.	Associations				
Task 5. Provide public outreach with					
crafted messages through flyers, e-news,					
website, social media and/or presentations	Watershed				
as appropriate.	Associations				
Activity 4: Implementation progress,					
metrics and updates.					
Task 1: PIE Watershed Representatives					
consult with municipalities to assess new	Watershed				
priorities yearly. Updates on funding	Associations,				
requests and suggestions.	Municipal Staff				
Task 2: Conference call with PIE Continuity					
Group to summarize lessons learned from	Coordinator,				
implementation plan, suggestions for next	PIE Continuity				
steps.	Group				
Task 3: Summarize accomplishment					
metrics, # proposals submitted, #					
proposals received, # barriers upgraded, #	Watershed				
municipalities participating	Associations				
Task 4: Update form based on municipal					
staff feedback	Coordinator				
Juli recuback	Coordinator				