

**Table 3-2 Restoration Actions**

Restoration Goals		Specific Goals	Objectives	Restoration Actions	
				Near Term Actions	Long Term Actions
<b>Habitat Goals</b>					
Create, Enhance, and Restore Habitat	Habitat restoration includes subtidal, intertidal (including wetlands and mudflats), riparian, and upland habitats. Specific goals, limiting factors, and objectives are addressed below under enhance plant communities, enhance animal communities, improve water quality, improve sediment quality, and support human use. Attainment of each habitat goal will be quantified as the length or area of habitat restored; (e.g., 24 acres of benthic habitat restored or 1.2 miles of riparian habitat restored).			<ul style="list-style-type: none"> <li>- Secure upland property</li> <li>- Secure wetland</li> <li>-Improve habitat in areas not linked to the final Remedy (e.g., Oak Island Yards, Tribbs, upland)</li> </ul>	<ul style="list-style-type: none"> <li>- Restore habitat in areas linked to final remedy.</li> <li>- Establish fish passage/ladder/shad run</li> </ul>
<b>Water Quality Goals</b>					
Improve Water Quality	Contribute to achieving state and federal water quality certification for fishable/swimable uses	Reduce concentrations in water of contaminants that exceed the state standards for fishable/swimable waters	<ul style="list-style-type: none"> <li>- Implement Early Action Evaluation (EAE)</li> <li>- Implement Minish Park Mitigation Pilot</li> <li>- Create Green Roof, Rain Garden, and Downspot Connection</li> <li>- Reduce sources of untreated storm water and sewer system outflows</li> </ul>	<ul style="list-style-type: none"> <li>- Implement final Remedy</li> <li>- Add riparian forests, maritime forests, freshwater wetlands, and salt marshes</li> </ul>	
		Remediate contaminated sediments and replace with clean substrate			
		Reduce inputs from point and non-point sources of contaminants that exceed the state standards for fishable/swimable waters			
	Protect water quality	Add riparian forests, maritime forests, freshwater wetlands, and salt marshes			
		Implement best management practices to control point and non-point sources			
		Properly dispose of contaminated sediments and prevent recontamination by remediate contaminated sediments and remediation/restoration process waste water			
<b>Sediment Goals</b>					
Improve Sediment Quality	Protect sediment quality; specific limiting factors and objectives are addressed under Improve Water Quality, Enhance Plant Communities, and Enhance Animal Communities Restoration Goals	Add riparian forests, maritime forests, freshwater wetlands, and salt marshes	<ul style="list-style-type: none"> <li>- Implement Early Action Evaluation (EAE)</li> </ul>	<ul style="list-style-type: none"> <li>- Implement final remedy</li> </ul>	
		Implement best management practices to control point and non-point sources			
<b>Flora Goals</b>					
Enhance Plant Communities	Increase native plants while decreasing non-native plants	Increase proportion of total plants comprising native species	<ul style="list-style-type: none"> <li>- Implement Early Action Evaluation (EAE)</li> <li>- Improve habitat in areas not linked to the final remedy.</li> </ul>	<ul style="list-style-type: none"> <li>- Implement final remedy</li> <li>- Restore habitat in areas linked to final remedy</li> </ul>	
		Increase diversity of plant communities			Increase diversity of plant communities
	Increase proportion of total plant comprising native species				
	Improve water quality, as required to support target floral species				
	Remediate contaminated sediments and replace with clean substrate				
	Remove obstacles to water flow by structures and debris in constrained channels				
	Reduce sedimentation				
	Increase abundance of plant species of special concern <consult with USFWS to select target species>	Increase proportion of total plant comprising native species			
		Improve water quality, as required to support target plant species			
		Remediate contaminated sediments and replace with clean substrate			
		Remove obstacles to water flow by structures and debris in constrained channels			
		Reduce sedimentation			

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<b>Fauna Goals</b>				
Enhance Animal Communities	Increase diversity of macrobenthic communities	Improve water quality, as required to support target animal species	- Improve habitat in areas not linked to the final remedy. - Implement Early Action Evaluation (EAE).	- Implement final remedy - Establish fish passage/ladder - Restore habitat in areas linked to final remedy
		Remediate contaminated sediments and replace with clean substrate		
		Increase diversity of benthic habitats features		
	Increase abundance of fish communities and improve health of fishery resources; (e.g., shad, blueback herring, alewife, American eel, striped bass, mummichog, and blue crab)	Reduce presence of and invasion by non-native plants and animals		
		Introduce key native species		
		Improve water quality, as required to support target animal species		
		Remediate contaminated sediments and replace with clean substrate		
		Remove obstacles to water flow by structures and debris in constrained channels		
		Increase availability of critical habitat features		
		Remove access restrictions to critical fish habitats features		
		Increase availability of critical habitats features		
	Increase abundance of herpetofauna species; (e.g., diamondback terrapin)	Reduce presence of and invasion by non-native plant and animal		
		Improve water quality, as required to support target animal species		
		Remediate contaminated sediments and replace with clean substrate		
		Remove obstacles to water flow by structures and debris in constrained channels		
		Increase availability of critical habitat features		
	Increase abundance of avian species of special concern, wading birds, waterbirds, shorebirds, and passerines, including spotted sandpiper, belted kingfisher, and egrets	Increase availability of critical habitats features		
		Increase availability of critical habitat features		
		Reduce presence of and invasion by non-native plants and animals		
	Increase abundance of mammalian species, including muskrat	Increase availability of critical habitats features		
Reduce presence of and invasion by non-native plants and animals				

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Restoration Goals		Specific Goals	Objectives	Restoration Actions	
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<b>Public Access Goals</b>					
Support Human Use	Improve public access		Provide public access to water front areas and wetlands for nature exposure	<ul style="list-style-type: none"> <li>- Reduce floatables</li> <li>- Create bird watching access</li> <li>- Implement Minish Park Mitigation Pilot</li> <li>- Remove containers on river banks</li> <li>- Create small craft and non-motorized boat access points, information Kiosks, and public waterfront areas</li> <li>- Improve human use in areas not linked to the final Remedy</li> <li>- Establish brownfield remediation</li> </ul>	<ul style="list-style-type: none"> <li>- Create Greenways/Fields and Parks</li> <li>- Establish fish ladder</li> <li>- Remove or modify constrained channels and connections between open waters</li> <li>- Establish river boat ecotourism opportunity</li> <li>- Improve human use in areas linked to final Remedy</li> <li>- Build/rehabilitate fishing pier</li> <li>- Build boat marina</li> </ul>
	Improve aesthetics		Remove abandoned and deteriorated facilities, and refuse		
			Restore ecological communities		
	Improve opportunities for public education		Provide public access to water front areas and wetlands for nature exposure		
	Improve understanding of the requirements for successful restoration of the Lower Passaic River System		Systematically monitor pre-restoration and post-restoration conditions		
	Improve navigation		Reduce sedimentation		
	Improve opportunities for passive recreation		Provide public access to water front areas and wetlands for nature exposure		
	Improve opportunities for recreational fishing		Provide public access to water front areas and wetlands for nature exposure		
		Construct fishing piers, docks, and wharfs			
Improve flood and attenuation		Add riparian forests, maritime forests, freshwater wetlands, and salt marshes			
		Remove obstacles to water flow by structures and debris in constrained channels			