

### Coastal Resilience Grants – FY 2019 Project Summaries

Recipient	Project Title and Description	Award
Town of Braintree	<p><i>Watson Park Shoreline Erosion Mitigation and Coastal Resiliency Improvement</i></p> <p>The Town of Braintree will conduct a feasibility assessment and prepare conceptual design alternatives for stabilizing an eroded shoreline section at Watson Park on the Fore River. The project will consider the likelihood of increased flooding with sea level rise in developing design plans for a more resilient park.</p>	\$42,410
Town of Chatham	<p><i>Prioritized Assessment for Coastal Resiliency and Adaptive Management along Chatham’s East-facing Shoreline</i></p> <p>The Town of Chatham will use tidal, wave and sediment transport models to quantitatively evaluate the inlet and tidal channel dynamics at Chatham Harbor /Pleasant Bay. The study will support a detailed analysis of potential shoreline management options that could sustain the east-facing Chatham shoreline over the next 20 to 30 years.</p>	\$182,122
Cities of Chelsea and Everett	<p><i>Regional Resilience in Two Gateway Cities: Chelsea-Everett Protective Barrier Partnership</i></p> <p>The Cities of Chelsea and Everett will coordinate on the development of design plans for flood mitigation along the northern tip of the Island End River to comprehensively reduce flooding and sea level rise risks to vulnerable populations, infrastructure and numerous businesses.</p>	\$323,406
Town of Dennis	<p><i>Improving the Coastal Resiliency of Dr. Bottero Road and Chapin Beach: Coastal Structure and Beach Nourishment Final Design</i></p> <p>The Town of Dennis will finalize engineering plans and permit documents for a project that will stabilize an eroding section of Chapin Beach using added sand and a coastal structure to hold the sand in place. The project will mitigate impacts to Dr. Bottero Road while preserving shorebird habitat and salt marsh and maintaining access to Chapin Beach and the Aquacultural Research Corporation.</p>	\$101,603
Duxbury Beach Reservation, Inc.	<p><i>Duxbury Beach Dune Restoration Project</i></p> <p>The Duxbury Beach Reservation, a local nonprofit organization entrusted with preserving a natural recreational beach for the public, will construct a 3,600-foot-long dune restoration project between the first and second crossovers on Duxbury Beach to improve the resilience of the barrier beach system and provide storm surge and wave protection to the Duxbury Beach access road and the communities of Duxbury and Kingston.</p>	\$500,000

City of Gloucester	<p><i>Gloucester High School Campus Coastal Flood Mitigation Project</i></p> <p>The City of Gloucester will evaluate, design and permit a flood mitigation project to help protect the Gloucester High School building, athletic fields, parking areas and neighborhood, which are vulnerable to coastal flood waters overtopping low-lying shoreline structures along the Annisquam River/Blynman Canal.</p>	\$63,345
Town of Hull	<p><i>Nature-Based Solutions for Community Resilience on North Nantasket Beach</i></p> <p>The Town of Hull will develop conceptual designs to enhance the resiliency and protective value of the coastal beach and dune system on North Nantasket Beach, including both near-term dune rehabilitation strategies and long-term, large-scale beach and dune nourishment.</p>	\$142,011
Town of Hull	<p><i>Hull Water Pollution Control Facility (WPCF) Electrical Service Relocation,</i></p> <p>The Town of Hull will replace the WPCF's incoming underground electrical service and transformer with a new overhead service and elevated transformer to account for increased flooding and future sea level rise impacts.</p>	\$148,350
Town of Ipswich	<p><i>Building Resilience through Argilla Road Adaptation Designs</i></p> <p>The Town of Ipswich, in partnership with The Trustees of Reservations, will develop design plans for nature-based approaches or green infrastructure to help protect Argilla Road from increased flooding and climate change impacts.</p>	\$156,155
Town of Ipswich	<p><i>Ipswich River Coastal Resiliency and Bank Stabilization Project: Phase II</i></p> <p>The Town of Ipswich, working with the Ipswich River Watershed Association, will develop permit-ready plans for stabilizing an eroding section of coastal bank along the Ipswich River to protect a stormwater pipe outfall and other infrastructure.</p>	\$66,010
Town of Kingston	<p><i>Monitoring and Maintenance of a Living Shoreline Project at Gray's Beach</i></p> <p>The Town of Kingston will develop and implement a comprehensive monitoring procedure to help ensure the establishment and long-term sustainability of a recently completed salt marsh and dune restoration project at Gray's Beach Park.</p>	\$50,000

Town of Marion	<p><i>Assessing the Threats from Climate Change to Marion's Vulnerable Wastewater Pumping Infrastructure</i></p> <p>The Town of Marion will evaluate the vulnerability of its wastewater pumping stations and related infrastructure to storm surge and sea level rise impacts and recommend improvements and future actions to reduce risk to the pumping stations.</p>	\$93,660
Town of Mattapoisett	<p><i>Construction of Mattapoisett's Potable Water Infrastructure at the Pease's Point Water Main Crossing</i></p> <p>The Town of Mattapoisett will relocate an existing water main that traverses an inlet between Pease's Point and Point Connett to a more landward and deeper location to help ensure that service and water quality will be maintained during storm events and future sea level rise.</p>	\$498,750
Town of Nantucket	<p><i>Resilient Nantucket: 3D Digital Documentation and Sea Level Rise Visualization</i></p> <p>The Town of Nantucket will create three-dimensional visualizations of projected flooding and sea level rise at vulnerable sites to expand public awareness and communication of climate change impacts and help advance local resiliency planning efforts.</p>	\$75,000
Town of Provincetown	<p><i>Ryder Street Beach and Dune Enhancement</i></p> <p>The Town of Provincetown will design and prepare permit applications for a beach and dune enhancement project along Ryder Street Beach to help provide storm damage protection to critical infrastructure assets and commercial and residential properties.</p>	\$149,153
City of Salem	<p><i>Collins Cove Salt Marsh Restoration Project</i></p> <p>The City of Salem will restore 0.75 acres of fringing salt marsh using coir rolls and native vegetation to provide increased protection from erosion, storm surge and wave forces along the shoreline of Collins Cove. The project will also include monitoring and maintenance efforts led by Salem Sound Coastwatch to help enhance the longevity of the restored site.</p>	\$216,550
Town of Wareham	<p><i>Installation of Bypass Connection at Cohasset Narrows and Hynes Field Pump Stations</i></p> <p>The Town of Wareham will install mechanical sewer bypass connections at the Hynes and Cohasset Narrows pump stations to allow the pump stations to immediately continue servicing critical infrastructure facilities in the event of a catastrophic flood event. The town will also prepare design plans for a third bypass connection at the Narrows pump station.</p>	\$153,375

Town of Wareham	<p><i>Resiliency Assessment of Overflow Lagoons at the Wareham Water Pollution Control Facility (WPCF)</i></p> <p>The Town of Wareham will determine the additional storage capacity needed at the WPCF overflow lagoons for heavy precipitation and peak flow conditions with elevated groundwater due to sea level rise. Wareham will evaluate potential modifications to the lagoons to prevent excessive wastewater discharging into the Agawam River during flood events.</p>	\$63,750
Town of Winthrop	<p><i>Coughlin Park Shoreline Restoration</i></p> <p>The Town of Winthrop will stabilize 360 linear feet of an eroding coastal bank along the bayside of Coughlin Park by nourishing the beach with cobbles and installing coir (or coconut fiber) rolls and planting native vegetation to reduce storm damages at the park and maintain access to the beach.</p>	\$222,417
<b>TOTAL</b>		<b>\$3,248,067</b>