

55 - MONMOUTH COUNTY

The Planning Team met with Monmouth County departments that had mitigation actions in the previous plan – or had new mitigation actions to include in this plan update, in January and February of 2025. Those County departments include the Division of Planning, Public Works & Engineering, Park System, OEM, and Buildings and Grounds.

Completed or Removed Actions

Table 6.1-1 Monmouth County Completed or Removed Mitigation Actions

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|----------|--|--|---|----------|--|--------------------------|---------------|----------|---------------|--|
| Action 1 | Protect and Restore Claypit Creek and Portland Place | Re-establish, restore, and stabilize the eroded bluff and establish a living shoreline at the river edge to further provide protection of the slope to future storm events as well as provide and enhance habitat for fish and wildlife. | Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Park System | FEMA HMA, County Capital | \$720,000 | 2 years | Completed | <p>For the Hartshorne Woods Park – Claypit Creek Area Shoreline stabilization project, shoreline plantings were installed in front of bulkhead of Claypit Creek. This included high and low marsh plantings and a special seed mix. The bulkhead was taken down to elevation 1 to allow flow behind it in order to do a living shoreline project. HMA funded it. The project was completed in 2017 for \$70,867.50.</p> <p>At Portland Place, a new basket revetment system was installed. It was funded by County Capital and cost \$720,000. It was completed in 2020.</p> <p>Both projects are complete, although there is monitoring, replanting, and control of the phragmites in front. This is funded through the capital budget.</p> |
| Action 2 | Elevate Highway District #8 Office in Hazlet | The office building and garage at Highway District #8, in the Township of Hazlet, is prone to flooding. This project is for the design and | Flood, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County Public Works & Engineering | FEMA HMA | \$600,000 | 2 years | Completed | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|----------|---|---|---|----------|--|---|---------------|----------|---------------|---|
| | | reconstruction of the building and garage at a higher elevation to ensure the continuity of services during a disaster or crisis. | | | | | | | | |
| Action 3 | Repair, Remove, or Rehabilitate the Allentown Dam | Repair, remove, or rehabilitate Allentown Dam, a High-Hazard Potential Dam, located along Doctors Creek. | Dam Failure | High | Allentown Borough | County budget, NJDEP Bureau of Dam Safety and Flood Control | \$0.00 | 3 years | Withdrawn | Withdrawn due to the dam recently being upgraded and requires more ongoing maintenance than a remodel. Also the Borough of Allentown owns this dam now. |
| Action 4 | Replace or Elevate County Bridges and Culverts | Projects may include the replacement of a County bridge or culvert and/or elevating the approach roadway above the flood elevation or to accommodate the new bridge structure. Project locations include, but are not limited to, the following: County Bridge H-5 H-5A, Palmer Ave (CR 7), Holmdel Middletown; County Bridge MA-11, Aberdeen Road, Matawan; County Bridges ML-17, ML-18, ML-19, Station Rd., Marlboro; County Bridge R-5, Florence Ave (CR 39), Union Beach; Union Ave (CR 39), Union Beach. | Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Department of Public Works & Engineering | FEMA HMA, NJDOT | | 3 years | Withdrawn | Combined with new Action 67. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|----------|--|--|---|----------|--|-------------------|---------------|----------|---------------|------------------------------|
| Action 5 | Inspect and Maintain the Structural Integrity of County Infrastructure | Hard armoring of creek and riverbanks and shorelines is not always possible or desirable. In most areas of the County, the only way to mitigate the results of flooding is to anticipate for, maintain, and provide efforts to recover after an extreme event. Thus, it is essential to inspect and maintain the structural integrity of County infrastructure and to perform activities to remove debris and sediment that may negatively affect the flow of surface water in and around this infrastructure. This includes activities such as removing debris from underneath low-lying bridges and culverts, clearing sediment build-up, or repairing embankment erosion on riverbanks near County infrastructure. Also, repairing and cleaning stormwater drains and other drainage systems. | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County Department of Public Works & Engineering and local municipalities. | County budget | | 2 years | Withdrawn | Combined with new Action 67. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|----------|---|--|---|----------|--|---|---------------|----------|---------------|---|
| Action 6 | Install Hard-armoring on County Bridges that Experience Coastal Erosion | Due to the location of coastal bridges, the substructure is highly susceptible to scour and the effects of waves, tides, and storm surges. Installing hard armoring (i.e. rip rap, jetty stone, and/or steel sheeting) would mitigate this coastal erosion that jeopardizes County bridges and the roads they carry. One such bridge is Monmouth County Bridge W- 43 over the Shark River in the Boroughs of Avon-by-the-Sea and Belmar. Bridge W-43 carries Ocean Ave. (CR 18). Other potential bridges include but are not limited to; S-31 (Middletown, Rumson), 5-32 (Rumson, Sea Bright), and W-9 (Brielle, Manasquan). | Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Department of Public Works & Engineering | FEMA HMA | | 2 years | Withdrawn | Combined with new Action 67. |
| Action 7 | Repair, Remove, or Rehabilitate the Lake Topanemus Dam in Freehold Township | Repair, remove, or rehabilitate Lake Topanemus Dam, a High-Hazard Potential Dam, located along McGellaird's Brook. | Dam Failure | N/A | Monmouth County, owns dam | County budget, NJDEP Bureau of Dam Safety and Flood Control | | N/A | Completed | This dam has been rehabilitated. By court order, Freehold Township and Borough are responsible for maintenance. The NJDEP has deemed the dam to be co-owned by the County, the Freehold Borough, and Freehold Township. |

New and Ongoing Actions

Table 6.1-2 Monmouth County Ongoing and New Mitigation Actions

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|--|--|--------------------|-----------|---------------|--|
| Action 8 | Provide Assistance to the National Flood Insurance Program's (NFIP) Community Rating System (CRS) Program | Provide technical and professional assistance to local municipalities for their engagement and advancement in the NFIP CRS program. Assistance includes hazard mitigation planning, community outreach, public information, flood protection information, mapping assistance, grant management, and floodplain regulation consultations. | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Division of Planning and OEM | Dedicated staff time, FMA, other State funds | \$100,000 per year | 5 + years | Ongoing | See Section 5.0 Capability Assessment for more information on the County's CRS Assistance Program. The County also helps with mapping services for wildlife species in the floodplain. |
| Action 9 | Support Municipal Floodplain Management Planning | Assist municipalities in identifying and executing floodplain management activities that improve flood hazard mitigation, community resiliency, and recovery from storm events. Expand understanding, capabilities, and expertise in floodplain management. Monmouth County staff members would welcome more advanced training and certifications in areas such as floodplain management strategies and land use development in the SFHA. Training and certification would be necessary to provide resource support to reduce these costs and bridge the planning gap. | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Division of Planning and OEM | Dedicated staff time, FEMA HMA | \$25,000 per year | 5 + years | Ongoing | The County coordinates with New Jersey Department of Environmental Protection (DEP) and NFIP on floodplain trainings, provides courtesy reviews of stormwater control ordinances and stormwater management plans in accordance with DEP. |
| Action 10 | Expand Online Mapping Services | Many municipalities rely on GIS assistance from Monmouth County. This system can be improved to provide municipal access with online services. This requires new software and/or software licenses, hardware and equipment, data updates, and upgrades as well as investments in the existing technology infrastructure. This system would also allow the public to access GIS information and customize maps showing risks to their property and community. It also ties back to CRS mapping requirements as well as to information used in the development of local master plans, planning, hazard response, community outreach, public information, flood information, | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Division of Planning, OEM, Division of GIS | Dedicated staff time, FEMA HMA | \$50,000 per year | 5 + years | Ongoing | The County has a self-service GIS flood mapper, FEMA maps posted on the County website, contracts Forerunner, and promotes Know your Zone. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|---|--|----------|--|--|---------------|-----------|---------------|---|
| | | mapping, municipal training, and CRS Support. Support development of interactive, online mapping services for public use provides municipalities with technical assistance and training, improves inhouse GIS system network, provides mapping and analysis services to CRS engaged communities, and enhances information assimilation and distribution. | | | | | | | | |
| Action 11 | Acquire Flood-prone Properties, especially Repetitive Loss and Severe Repetitive Loss Properties | To create a County-wide public open space system that will help meet park and recreation needs and conserve vital natural resources, the Monmouth County Park System will continue to acquire properties within project areas designated in the Monmouth County Open Space Plan (2019). Properties subject to flooding, severe winter weather, and associated storm surges are considered for purchase to meet the goals of the Monmouth County Open Space Plan. By purchasing these properties, any buildings located in the flood zone are removed and the land is restored to a natural condition. | Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm | High | Monmouth County Park System | FEMA HMA, NFIF grant | \$100M | 5 + years | Ongoing | <p>This action is ongoing. The Park System continues to purchase properties across the County. Since 2019, it has acquired 27 properties totaling 326 acres.</p> <p>The Open Space Plan is dated 2019. The County hopes to do an update or amendment in 2025.</p> |
| Action 12 | Improve Coastal Dune System, Maritime Forests, and Near-Coastal Habitats | Regrade sand fencing to establish dune topography and increase vegetation management to establish native coastal vegetation adapted to coastal hazard and slopes for Fisherman's Cove Conservation Area, Seven Presidents Oceanfront Park, Henry Hudson Trail at Popamora Point, and Bayshore Waterfront Park. Restore a pond area and hydroseed a large field area that was previously a parking lot to establish a coastal habitat there. | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Park System, US Fish & Wildlife Service, NOAA, FEMA, HRERP | NJCWRP, FEMA HMA, NFWF, Acres for America, NOAA, US FWS EPA, NJDOT | \$1.4M | 3 years | Ongoing | <p>This action is ongoing. An invasive removal project as well as a wildlife conservation project at Seven Presidents were performed to get vegetation back into native cover. Dredging was completed at Fisherman's Cove. Old parking lot was converted to field and pond area to establish coastal habitat.</p> |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|---|---|----------|-----------------------------|-------------------------|---------------|----------|---------------|---|
| Action 13 | Install Stream Bank Stabilization Techniques for the Ramanessin Brook, Pine Brook, and Manasquan River | A proposal has been in the planning phase for many years to reintroduce stream form and function in the upper reaches of the watershed where extensive straightening occurred in the past. This will result in more stream stability and improved water quality | Flood, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County Park System | FEMA HMA, County budget | \$2.3M | 2 years | Ongoing | A J Hook was installed in Ramanessin Brook, and the stream bank was redone. This is tied into upgrades to the detention basins; the traditional basins were turned into swales with best management practices. |
| Action 14 | Conduct Scheduled Burning and Mechanical Thinning at 3 County Parks | Conduct scheduled burning and mechanical thinning at Fisherman's Cove Conservation Area (Manasquan), Turkey Swamp Park (Freehold Twp.), and Bayshore Waterfront Park (Middletown Twp). | Wildfire | Medium | Monmouth County Park System | County budget | \$55,000 | 1 year | Ongoing | <p>No scheduled burning has been done since 2017 because of the liability language of State Forest Fire. The Park System is in active conversations with the County Administration regarding this.</p> <p>The Park System is controlling the phragmites at Fisherman's Cove through mechanical thinning.</p> <p>At Turkey Swamp Park there is a bid out to remove the invasive shrubs there to reduce fire hazard.</p> <p>At Bayshore, invasives have been removed using hand tools and non-mechanical methods.</p> |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|--|---|---------------|-----------|---------------|---|
| | | | | | | | | | | All funding comes from the County budget. |
| Action 15 | Implement Slope Stabilization Techniques Along the Henry Hudson Shoreline | A one-mile segment of the coastal trail will be the target area of this project. Various living shoreline techniques and wave attenuation structures will be investigated to find the "best fit" approach that will be permissible, economic, and supported by adjacent residents. Additional work of stabilization of the slope will also be investigated that will replant or restore the slope for adjacent public owned properties. | Flood, Wave Action, Landslide Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Park System | FEMA HMA, NJDEP Blue Acres, EPA, NOAA, NFWF | \$20M | 3 years | Ongoing | The Park System is looking to implement several techniques in the area and is at the phase of applying for funding. |
| Action 16 | Improve County Evacuation Preparations | Improve the physical (signage, striping, conversion of traffic signals to LED) and operational preparation (identifying severe inundation zones as priority areas) to place first responders at key intersections and check points and coordinate of highway advisory radio. This is in addition to Long Term Improvements (widening and elevating of roads and bridges) of the County Evacuation Routes, as documented in the 2009 Monmouth County Coastal Evacuation Routes Improvement Study. This study provided a transportation system condition and assessment of 12 Portal Evacuation Routes within the County. Some targeted improvements based on the recommendations would likely result in substantial benefits on roadway capacity, balancing travel demand and safety along the overall length of each portal route. Physical and operational preparations would be in addition to promoting Monmouth County's Know Your Zone initiative. | All Hazards | Medium | Monmouth County Department of Public Works & Engineering and Monmouth County Planning Division | County budget | \$20M | 5 + years | Ongoing | No update. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|--|--|----------|---------------------|-------------------|---------------|-----------|---------------|---|
| Action 17 | Increase Hazard Education and Risk Awareness at the County Level | Delivering preparedness education and community outreach on programs geared towards preparedness and small-scale mitigation efforts. This action will be the delivering of preparedness education in the form of mitigation seminars discussing mitigation options (i.e. flood vents, wet and dry floodproofing, elevation of utilities). The action will involve community focus meetings targeting the most at-risk communities and working through each area of the County. | All Hazards | High | Monmouth County OEM | County budget | \$582,000 | 5 + years | Ongoing | <p>1. Seniors and students take programs on readiness measures. The cost is \$62 per person, and 250 seniors and 85 students have taken it.</p> <p>2. Ready, Go, Bag – About 3,000 people per year are involved in this.</p> <p>CERT has 55 active volunteers.</p> |
| Action 18 | Provide Building Retrofits for the County Evacuation Centers | Provide building retrofits with hurricane-proof glass and storm shutters for the exterior windows and any applicable doors. | Extreme Wind, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County OEM | FEMA HMA | \$1M | 1 year | Ongoing | No progress. The Park System noted that Fort Monmouth is a shelter but does not have all of these retrofits. OEM said that Biotech needs another new generator (A 600kW one was obtained.). The Police Academy needs HVAC upgrades and a generator for the full facility. The water and plumbing are dated. This may cost \$400,000. A facilities management transfer switch would cost around \$500,000. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|--|---|----------|---|-------------------|--------------------|----------|---------------|---|
| Action 19 | Create a Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Bundle Project | Create a project that groups together RL and SRL Properties and then the County and NJOEM apply for a regional level mitigation project. | Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm | High | NJOEM | NJOEM | TBD | 2 years | Ongoing | NJOEM is prioritizing elevation bundles of RL/SRL properties. The County supports this project. |
| Action 20 | Improve Financial Management of Grant Monies | Hire new staff or rearrange existing staff's responsibilities to improve financial management of grant monies allotted to the County. | All Hazards | Medium | Division of Shared Services and Finance | DCA | \$100,000 per year | 5+ years | Ongoing | The County would like to hire a grant writer. |
| Action 21 | Create 3D digital Elevation Models of Structures and Infrastructure within the 500-year Flood Zones | Use mobile LiDAR Technology to create current 3D digital elevation models of all homes, businesses and infrastructure within Monmouth County coastal communities located within the 500-year flood zones. This project will collect digital images and develop models that provide an accurate assessment of flood damages that have been incurred by residents, businesses, and infrastructure because of specific past events. Additional information to be included within each property /parcels data set will be first floor elevations of mitigated properties, affixing property elevation certificates, NFIP information and creating an ArcGIS online web application for viewing. In addition, the project will overlay FIRM data on the first-floor elevation data to help identify which buildings and infrastructure are at future risk of flooding. All in the effort of building smarter more efficient ways of working towards greater resiliency. This also enhances various components of CRS program. | Flood, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County OEM | County budget | \$250,000 | 2 years | Ongoing | Rutgers University is doing this in Ocean County; Monmouth County is also interested in it. |
| Action 22 | Strengthen Damage Assessment | Monmouth County has established regional Damage Assessment Teams that are comprised of the Building and | All Hazards | Medium | CERT Team | County budget | \$56,000 | 2 years | Ongoing | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|--|-------------------|----------|---|---------------------------------------|---------------|-----------|---------------|---|
| | Teams | Construction Officials from within the municipal jurisdictions. This action is focused on increasing the training, exercising and further implementation costs associated with this program. The overall intent is to provide team members with the requisite FEMA training for accurately assessing damaged properties, appropriate personal protective equipment, a cache of tablets for utilizing ESRI ARCGIS web-based assessment tool and the required storage and sever capacity to maintain data. | | | | | | | | |
| Action 23 | Assist the NJ State Council for the Arts, NJ Cultural Alliance for Response (NJCAR), and Monmouth Arts in Improving Disaster Preparedness and Response for Arts, Cultural and Historic Buildings, Structures, and Institutions. | Prepare an action plan for arts organizations that support post disaster programs that support individual's emotional well-being, community engagement, assists with conflict resolution, and improve public health by channeling post-traumatic stress and anxiety into creative and productive community outcomes. Identify which cultural assets are threatened by storm surge; severe flooding, and/or sea level rise. | All Hazards | Low | New Jersey State Council for the Arts, NJCAR, and Monmouth Arts | County budget | TBD | 2 years | Ongoing | Monmouth Arts has done outreach funded through DEP and NOAA Hazard Risk Communications "community-based arts grant" |
| Action 24 | During Non-emergency Events, Continue to Support and Strengthen the Relationships between Government Agencies, Non-profits Organizations, and Volunteers that are | Continue to build their capacity to respond to acute and chronic post-emergency situations as well as improve means of providing redundant support, coordination, and communications in times of need. | All Hazards | Low | Monmouth County OEM | Robin Hood Foundation , County budget | TBD | 5 + years | Ongoing | 2026 update: In response to major storms, reactive the Long-term Recovery Group. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|--|-------------------|----------|--|-------------------------|----------------|----------|---------------|---|
| | Community Partners in the County's Long-Term Recovery Group | | | | | | | | | |
| Action 25 | Work with State Agencies to Update Regional Risk Maps for Risks that Extend Past the County Boundary | Work with State agencies to update regional risk maps, such as dam inundation flood limit maps. | Dam Failure | High | Monmouth County | County budget | Staff time | 3 years | Ongoing | County OEM obtained updates on each of its dams from NJDEP after the April 2024 earthquake. Now it is putting this data into incident management system maps. |
| Action 26 | Coordinate with the Monmouth County Chamber of Commerce to Improve Business Response Post Disaster | Work with the Chamber of Commerce to improve business response to disruption and preparedness from disasters. | All Hazards | Low | Monmouth County, Monmouth Regional Chamber of Commerce | County budget | Staff time | 3 years | Ongoing | No update |
| Action 27 | Purchase and Install Generators at County Highway District Facilities | Purchase and install permanent emergency generators at critical County Highway District facilities and the County Complex, which houses the administration buildings of the Department of Public Works & Engineering (including Bridge, Highway, and Traffic Safety Sections) which ensure the continuity of services during a disaster or crisis. The Highway Districts and Department of Public Works & Engineering maintain and repair approximately 1,000 miles of County roadways and nearly 1,000 bridges and culverts, as well as the associated traffic signals and signs. Many roads and bridges are also considered critical infrastructure, particularly those providing ingress and egress for | All Hazards | Medium | Monmouth County Department of Public Works & Engineering | FEMA HMA, County budget | \$2,000,000.00 | 1 year | Ongoing | The generators at the Thompson Park headquarters were funded with County capital and cost \$152,000. The Hall of Records and Human Services should have continuity of operations. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|---|--|--------------------------|-------------|---------------|--|
| | | evacuees and those allowing emergency vehicles access to those in need. These roads are located in areas vulnerable to storm surge and inundation. | | | | | | | | |
| Action 28 | Rehabilitate, Upgrade, or Decommission Dams to Meet Current NJDEP Bureau of Dam Safety Standards. | <p>Rehabilitate and upgrade dams to meet current NJDEP Bureau of Dam Safety Standards for spillway, embankment, low level outlet structure downstream channel improvements. Replace the adjoining County-owned bridge raise the roadway profile to address the issue associated with a potential dam failure or improve passage during flood events. Project locations include, but are not limited to, the following: 1) Lake Lefferts Dam, County Bridge MA-9, Ravine Dr. (CR 6A), Matawan (design ongoing); 2) Matawan Lake Dam, County Bridge MA-13, Main St. (CR 516), Matawan (design ongoing); 3) Perrineville Dam, County Bridge MS-48, Perrineville Rd. (CR 1), Millstone (design ongoing); 4) Shadow Lake Dam, County Bridges MT - 30 MT-45, Hubbard Ave. (CR 12), Middletown (preliminary studies ongoing); 5) Indian Dam, County Bridge U-18, Church St. (CR 526), Allentown (inspection and preliminary studies ongoing); 6) Hurley Pond Dam, County Bridge W18, Allenwood Rd., Wall (H&H complete); 7) County Bridge MN-4, Millstone; and (8) Englishtown Lake Dam, County Bridge MN-33, Main Street, (CR 527), Englishtown (H&H and alternative analysis complete).</p> <p>Decommission Red Valley Dam and repair or rehabilitate County Bridge U-1, Trenton - Lakewood Rd. (CR 526), Upper Freehold. Preliminary studies are ongoing.</p> | Dam Failure, Flood, Nor'easter, Hurricane and Tropical Storm | High | Monmouth County Department of Public Works & Engineering; Monmouth County Park System | FEMA HMA, NJDEP Bureau of Dam Safety and Flood Control, FEMA's High-Hazard Potential Dam Grant Program | More than \$2,000,000.00 | 3 - 5 years | Ongoing | <p>The Perrineville Dam, owned by the Park System, is a Class II Significant Hazard Dam. The Park System is actively working on a project with County Engineering to bring the dam into compliance as well as to improve the County bridge.</p> <p>Lake Lefferts should be done by Summer 2025. The bridge and dam will be advertised late spring/early summer 2025 and under construction by the end of the year.</p> |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|--|---|----------|---|-------------------|---------------|----------|---------------|--|
| Action 29 | Replace or Elevate County Bridges and Culverts | Projects may include the replacement of a County bridge or culvert and/or elevating the approach roadway above the flood elevation or to accommodate the new bridge structure. Project locations include, but are not limited to, the following: County Bridge H-5 H-5A, Palmer Ave (CR 7), Holmdel Middletown; County Bridge MA-11, Aberdeen Road, Matawan; County Bridges ML-17, ML-18, ML-19, Station Rd., Marlboro; County Bridge R-5, Florence Ave (CR 39), Union Beach; Union Ave (CR 39), Union Beach. | Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Department of Public Works & Engineering | FEMA HMA, NJDOT | | 3 years | Ongoing | MA-11 is ongoing; it will be completed in August 2025 and allow for the Lake Lefferts dam. H5 and R5 are completed. Others are under design. |
| Action 30 | Inspect and Maintain the Structural Integrity of County Infrastructure | Hard armoring of creek and riverbanks and shorelines is not always possible or desirable. In most areas of the County, the only way to mitigate the results of flooding is to anticipate for, maintain, and provide efforts to recover after an extreme event. Thus, it is essential to inspect and maintain the structural integrity of County infrastructure and to perform activities to remove debris and sediment that may negatively affect the flow of surface water in and around this infrastructure. This includes activities such as removing debris from underneath low-lying bridges and culverts, clearing sediment build-up, or repairing embankment erosion on riverbanks near County infrastructure. Also, repairing and cleaning stormwater drains and other drainage systems. | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm | Medium | Monmouth County Department of Public Works & Engineering and local municipalities | County budget | | 2 years | Ongoing | The Bridge department takes care of this. |
| Action 31 | Install Hard-armoring on County Bridges that Experience Coastal Erosion | Due to the location of coastal bridges, the substructure is highly susceptible to scour and the effects of waves, tides, and storm surges. Installing hard armoring (i.e. rip rap, jetty stone, and/or steel sheeting) would mitigate this coastal erosion that jeopardizes County bridges and the roads they carry. One such bridge is Monmouth County Bridge W- 43 over the Shark | Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Monmouth County Department of Public Works & Engineering | FEMA HMA | | 2 years | Ongoing | Rumson Seabridge is under construction now. Nothing is done on W-9. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|--|--|----------|---|---|------------------------|----------|---------------|--|
| | | River in the Boroughs of Avon-by-the-Sea and Belmar. Bridge W-43 carries Ocean Ave. (CR 18). Other potential bridges include but are not limited to; S-31 (Middletown, Rumson), 5-32 (Rumson, Sea Bright), and W-9 (Brielle, Manasquan). | | | | | | | | |
| Action 32 | Preserve Land within the Vicinity of NWS Earle | Purchase conservation/agricultural easements and open space in order to help create a buffer surrounding NWS Earle to further mission sustainment and maintain public health, safety, and welfare. Easements and open space also mitigate the risk of flooding and wildfire by preventing new development in hazardous areas. | Wildfire, Storm Surge, Flood, Nor'easter, Hurricane and Tropical Storm | High | County Planning Division, U.S. Navy, participating municipalities, Monmouth Conservation Foundation, County Park System | REPI Program, DEP Green Acres Program | \$25M | 5+ years | New 2026 | As of January 2025, the County has preserved two properties and are working on acquiring one more. |
| Action 33 | Improve Safety for the Traveling Public | There is growing concern about roadway safety, particularly the increase in pedestrian fatalities. In 2024, Monmouth County reported 48 fatalities involving drivers, passengers, bicyclists, and pedestrians. To address this urgent issue, the County is developing a Safe Streets for All (SS4A) Action Plan. This initiative aims to create a comprehensive, data-driven, and community-focused strategy to identify and mitigate travel safety concerns. The intent is to implement the plan's recommended safety enhancement projects and policy directives, resulting in a significant reduction or elimination of traffic-related fatalities and serious injuries. | Public Roadway Safety-Transportation Accidents | High | Monmouth County Planning Division | Federal Highway Administration, Safe Streets for All (SS4A) Grant Program | TBD in the Action Plan | 3 years | New 2026 | |
| Action 34 | Removing Barriers to Mobility | In 2024, the Monmouth County Division of Planning completed the Barriers to Mobility Study, known as Monmouth PATHS: Access for All. The study highlighted significant mobility and accessibility challenges faced by residents and visitors, along with | All Hazards | Medium | Monmouth County Planning Division | TBD | TBD in the Action Plan | 5 years | New 2026 | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|---|-------------------|---------------|----------|---------------|--|
| | | strategies to enhance infrastructure, services, and policies to address these issues. Tackling these barriers is critical, as obstacles such as flooding, inadequate drainage, missing links in infrastructure critical to mobility such as sidewalks, or malfunctioning equipment can severely disrupt the movement of people and emergency services during crises. Removing these obstacles will lead to a safer, more equitable, and efficient transportation system, enabling faster response times for first responders and smoother evacuations, particularly for individuals who rely on walking, cycling, or public transit for mobility. | | | | | | | | |
| Action 35 | Reduce Human and Animal Conflicts on Roadways | In 2022, Monmouth County recorded 310 deer-vehicle collisions, the highest number of such incidents in the state. With shrinking habitats and a lack of natural predators, deer pose a significant threat to public safety on roadways. There is growing agreement that improved engineering techniques and design approaches could help mitigate these conflicts—not only with deer but also with other species that frequently intersect with human infrastructure. Reducing animal fatalities and minimizing conflicts with drivers requires a multifaceted approach, including driver awareness through signage, warning systems, and animal detection technologies; habitat conservation and land management; and infrastructure enhancements such as wildlife corridors, bridges, culverts, underpasses, tunnels, rope ladders, and similar solutions designed to facilitate safe wildlife movement and migration. Connecting Habitat Across New Jersey (CHANJ), an initiative by | Public Roadway Safety/Transportation Accidents | Low | Monmouth County Planning Division, County Park System | TBD | TBD | 5 years | New 2026 | The County Park System conducted a Deer Management Plan in 2024. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|--|-------------------|----------|---------------------|--------------------|---------------|----------|---------------|-------|
| | | the NJDEP, aims to make landscapes and roadways more accessible for terrestrial wildlife by identifying critical areas and actions to achieve habitat connectivity across the state. | | | | | | | | |
| Action 36 | Obtain an Upgraded Generator for the Fire Academy | Obtain an upgraded generator to replace the current, outdated one. Connect it to the public utilities. The cost would be \$800,000 for water, \$150,000 for design, and \$800,000 for installation. | Power Failure | High | Monmouth County OEM | FEMA HMA | \$500M | 2 years | New 2026 | |
| Action 37 | Install Fire Suppression in the County Courthouse and the Manalapan Western Branch Archives in case of a fire due to an act of terrorism | Install fire suppression in the west wing of the courthouse. At the moment, only the east wing has fire compression. Install fire suppression in the Manalapan Western Branch Archives. It holds the records for the County. | Terrorism | High | Monmouth County OEM | County budget, DHS | TBD | 2 years | New 2026 | |
| Action 38 | Upgrade the Cameras in Portions of the Monmouth County Courthouse, Public Safety Center, and Prosecutors Office | Upgrade the cameras in portions of the Monmouth County Courthouse, Public Safety Center, and Prosecutors Office | Terrorism | High | Monmouth County OEM | DHS | TBD | 4 years | New 2026 | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|--|-----------------------------------|---------------|----------|---------------|-------|
| Action 39 | Obtain Portable Water Pumps (12”), Portable Generators, And Portable HVAC Units (Trailers). | Obtain portable water pumps (12”), portable generators, and portable HVAC units (trailers) at the Prosecutors Office in Asbury Park, Linkages in Tinton Falls, the Community Center in Neptune, and OEM Building Facilities. The OEM Building Facilities need two more generators with a 400-foot cable and may cost \$400,000. | Power Failure | Medium | Monmouth County OEM | FEMA HMA, County budget | \$400k | 4 years | New 2026 | |
| Action 40 | Enhancement/ Upgrades to the Shrewsbury River Flood Warning System | Enhance and upgrade the Shrewsbury River Flood Warning System. Six sites currently have it. Eight sites total are needed. | Hurricane and Tropical Storm; Nor'easter; Flood; and Storm Surge | High | Monmouth County OEM, DOT, surrounding municipalities | NOAA, FEMA HMA | \$100k | 2 years | New 2026 | |
| Action 41 | Generator and Transfer Switch to Fort Monmouth OEM Warehouses, MedStar HQ, SACC / Back Up EOC, and Radio Sites (13) | Oceanport, Long Branch, Little Silver, Sea Bright, Rumson, Monmouth Beach, Highlands. Replacement generators are \$150,000 each. | Power Failure | Medium | Monmouth County OEM | County budget, FEMA HMA | \$2M | 4 years | New 2026 | |
| Action 42 | Purchase and install a generator to Support COOP/COG 600KW+ with 400+ Ft Feeder cables | The County needs a large, portable generator to Support COOP/COG 600KW+ with 400+ Ft Feeder cables | Power Failure | Medium | Monmouth County OEM | County budget, FEMA HMA | \$2M | 4 years | New 2026 | |
| Action 43 | Build a covered storage areas with solar panels for OEM equipment. | The facility storage is for all OEM equipment for the OEM warehouse. Incorporate solar panels are on top of the building. | All Hazards | Medium | Monmouth County OEM | County budget, sustainable grants | \$5M | 3 years | New 2026 | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|--|---|---|-------------|--|--------------------------------------|-----------------|---------------|---------------|-------|
| Action 44 | Decommission Red Valley Dam and Repair or Rehabilitate County Bridge U-1, Trenton - Lakewood Rd. (CR 526), Upper Freehold. | Decommission Red Valley Dam and repair or rehabilitate County Bridge U-1, Trenton - Lakewood Rd. (CR 526), Upper Freehold. Preliminary studies are ongoing. | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm | High | Monmouth County Department of Public Works & Engineering | State of New Jersey, Monmouth County | \$2 million | 2 - 5 years | New 2026 | |
| Action 45 | Shoreline Stabilization at Belford Ferry and N-61 Dredge Disposal area | Stabilize shoreline at Belford Ferry and N-61 Dredge Disposal area. Beach maintenance is per CAFRA General Permit. | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Department of Public Works & Engineering | State of New Jersey, Monmouth County | \$2 million | 2 - 6 years | New 2026 | |
| Action 46 | Compton's Creek/Shoal Harbor Jetty Repairs and Rehabilitation | Repair and rehabilitate Compton's Creek/Shoal Harbor Jetty. | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Department of Public Works & Engineering | State of New Jersey, Monmouth County | \$4 million | 1 - 6 years | New 2026 | |
| Action 47 | Construct Metal Storage Building at Highway District No. 10 for Relocation of Highway District No. 8 | Construct metal storage building at Highway District No. 10 for relocation of Highway District No. 8. | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Department of Public Works & Engineering | State of New Jersey, Monmouth County | \$7.5 million | 1 - 3 years | New 2026 | |
| Action 48 | Maintaining, Updating, and Hard Armoring (as needed) Bridges and Roadways | Maintain and update, as needed, including A-51, Hockhockson Road, Colts Neck Township, Bridge (overtops and is considered functionally obsolete); F-26, Three Brooks Road, Freehold Township, Bridge overtops, (3) x 48" RCP; H-5, Palmer Ave, Holmdel Township, Bridge overtops; H-7, Middle Road, Holmdel Township, Bridge and approaches overtop; H-9, S. Laurel | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm, Storm Surge | Low to High | Monmouth County Department of Public Works & Engineering | State of New Jersey, Monmouth County | \$41,000,000.00 | 2 to 5+ years | New 2026 | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|--------|------|---|-------------------|----------|-------------------|-------------------|---------------|----------|---------------|-------|
| | | Ave, Holmdel Township, Overtopping pipe; HL -9, Howell Road, Howell Township, Overtops, bridge (is in poor condition); HL- 11, Wycoff Mill Road, Howell Township, Overtops, 5 ft RCP; HL -19, Friendship Road, Howell Township, 36" CMP, overtops; HL -80, Friendship Road, Howell Township, 30 inch RCP, overtops; HL-22, Aldrich Road, Howell Township, Bridge overtops (over all condition is fair, structure is considered functionally obsolete); HL- 64, Southard Ave, Howell Township, Bridge (overtops and is considered to be SD) (under design); MA-10, Matawan Ave, Matawan Borough, Pipe overtops; ML-17, Station Road, Marlboro Township, Overtops (under design); ML-18, Station Road, Marlboro Township, Overtops (under design); ML-19, Station Road, Marlboro Township, Overtops (under design); MN-35, CR 527, Englishtown Borough, 24" pipe overtops; MN-31, CR 527, Englishtown Borough, Bridge (overtops, structure is functionally obsolete); MN-34, CR 527, Englishtown Borough, Bridge (overtops structure is functionally obsolete) (recently repaired); MN-36, Pension Road, Englishtown Borough, Bridge overtops; MN-56, Tennent Road, Manalapan Township, Bridge overtops; MN-57, Pease Road, Manalapan Township, Bridge overtops; MN-58, Pease Road, Manalapan Township, Pipe overtops; MN-59, Comack Lane, Manalapan Township, Bridge overtops (fair condition); MT-9, Cherry Tree Farm Road, Middletown Township, Bridge | | | | | | | | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|--------|------|---|-------------------|----------|-------------------|-------------------|---------------|----------|---------------|-------|
| | | <p>overtops; MT-13, Sleepy Hollow Road, Middletown Township, Bridge overtops; MT-14, Sleepy Hollow Road, Middletown Township, Bridge overtops; MT-15b, Stillwell Road, Middletown Township, Overtops; MT-17a, Grand Ave, Middletown Township, Pipe overtops; MT-17b, 7th Ave, Middletown Township, Pipe overtops; MT-33, Middletown-Lincroft Road, Middletown Township, 5' RCP, overtops; MT-46, Middletown-Lincroft Road, Middletown Township, 4' RCP, overtops; MS-9, Red Valley Road, Millstone Township, Bridge overtops; N-17, East End Ave, Neptune City Borough, Approach roadway overtops (under design); N-23, N. Riverside Drive, Neptune Township, Pipe overtops; R-8, Union Ave, Union Beach, Pipe overtops; R-9, Union Ave, Union Beach, Pipe overtops; R-18, Florence Ave, Keyport Borough, Pipe overtops; R-19, Green Grove Avenue, Hazlet Township, Pipe Overtops; R-32, Florence Ave, Hazlet Township, Pipe Overtops; R-33, Florence Ave, Keyport Borough, Pipe overtops; S-12a, Walter Street, Tinton Falls Borough, Pipe overtops; W-18a, Allenwood Road, Wall Township, Overtops; W-43, Ocean Road, Belmar and Avon Boroughs (Install permanent Emerg. Generator for bascule bridge) (under design; preliminary study); and U-73, Imlaystown-Hightstown Road, Upper Freehold Township, Bridge (over tops, poor condition, considered structurally deficient) (under design).</p> <p>Replace or elevate County bridges</p> | | | | | | | | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|--------|------|--|-------------------|----------|-------------------|-------------------|---------------|----------|---------------|-------|
| | | <p>and culverts. Such projects may include the replacement of a County bridge or culvert and/or elevating the approach roadway above the flood elevation or to accommodate the new bridge structure. Project locations include, but are not limited to, the following: County Bridge H-5 H-5A, Palmer Ave (CR 7), Holmdel Middletown; County Bridge MA-11, Aberdeen Road, Matawan; County Bridges ML-17, ML-18, ML-19, Station Rd., Marlboro; County Bridge R-5, Florence Ave (CR 39), Union Beach; Union Ave (CR 39), Union Beach.</p> <p>Hard armoring of creek and riverbanks and shorelines is not always possible or desirable. In most areas of the County, the only way to mitigate the results of flooding is to anticipate for, maintain, and provide efforts to recover after an extreme event. Thus, it is essential to inspect and maintain the structural integrity of County infrastructure and to perform activities to remove debris and sediment that may negatively affect the flow of surface water in and around this infrastructure. This includes activities such as removing debris from underneath low-lying bridges and culverts, clearing sediment build-up, or repairing embankment erosion on riverbanks near County infrastructure. Also, repairing and cleaning stormwater drains and other drainage systems.</p> <p>Due to the location of coastal bridges, the substructure is highly susceptible to scour and the effects of waves,</p> | | | | | | | | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|-----------------------------------|--|---|----------|--|-------------------|---------------|-------------|---------------|-------|
| | | tides, and storm surges. Installing hard armoring (i.e. rip rap, jetty stone, and/or steel sheeting) would mitigate this coastal erosion that jeopardizes County bridges and the roads they carry. One such bridge, previously mentioned in this action, is Monmouth County Bridge W- 43 over the Shark River in the Boroughs of Avon-by-the-Sea and Belmar. Bridge W-43 carries Ocean Ave. (CR 18). Other potential bridges include but are not limited to; S-31 (Middletown, Rumson), 5-32 (Rumson, Sea Bright), and W-9 (Brielle, Manasquan). | | | | | | | | |
| Action 49 | Perform Stormwater/Flood Studies. | Perform stormwater/flood studies in Township of Neptune, Borough of Neptune City, and Borough of Bradley Beach. | Flood, Wave Action. Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Monmouth County Department of Public Works & Engineering, Township of Neptune, Borough of Neptune City, Borough of Bradley Beach | Grant | \$250K | 1 - 3 years | New 2026 | |
| Action 50 | Improve Belford Ferry Terminal | The Ferry Terminal is on Compton's Creek on the Sandy Hook Bay. The building and marine elements may need structural improvements to protect against wave action. | Wave Action | High | Monmouth County Department of Public Works & Engineering | Grants | \$5M | 1 - 3 years | New 2026 | |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|---|----------|---|---|----------------|-----------|---------------|---|
| Action 51 | REPI Encroachment Protection Agreement | Multi-year Agreement between NWS Earle, Monmouth County, and Monmouth Conservation Foundation to acquire conservation easements over developable parcels near NWS Earle. REPI provides up to 50% of the total cost of the transaction. | Water Quality, High-Density Development, Flood Risk | Medium | Monmouth County Division of Planning, Naval Weapons Station Earle, Monmouth Conservation Foundation | Readiness and Environmental Protection Integration (REPI) | \$3,000,000.00 | 3 years | New 2026 | Targets conservation easements over two parcels in FY25-26, with two additional parcels in FY26-27. |
| Action 52 | REPI Challenge Military Installation Coastal Resilience | Cooperative Agreement for Installation Resilience Services in support of NWS Earle with Monmouth University Urban Coast Institute to further develop concepts and permitting for coastal sites in Raritan Bayshore and Atlantic Ocean communities in Monmouth County. Supports planning and permitting on 3 projects in County; Cliffwood Beach Restoration in Aberdeen Twp, Veterans Park Living Shoreline in Highlands, and Sylvan Lake Living Shoreline in Avon & Bradley Beach. | Flood Risk Reduction, Wildfire, Stormwater, Water Quality, Habitat Enhancement | Medium | Monmouth University Urban Coast Institute, Naval Weapons Station Earle | Readiness and Environmental Protection Integration (REPI) | \$1,000,000.00 | 5+ Years | New 2026 | |
| Action 53 | Ware Creek Marsh Restoration | Executed under Cooperative Agreement w/ Monmouth University Urban Coast Institute. Planning and permitting to designate site as beneficial reuse location for channel dredging. | Flood Risk Reduction, Stormwater Conveyance, Habitat Enhancement, Sea Level Rise Adaptation | Medium | Monmouth University Urban Coast Institute, Naval Weapons Station Earle, Monmouth County | Department of the Navy, National Fish and Wildlife Fund, REPI | \$550,000 | 2025-2029 | New 2026 | Goal to elevate marsh, restore flow to channels, eradicate phragmites and restore spartina, protecting bordering County and navy infrastructure. |
| Action 54 | Cliffwood Beach Stabilization & Restoration | Executed under Cooperative Agreement w/ Monmouth University Urban Coast Institute. Construction phase of project developed by REPI. | Coastal Erosion, 100-yr and nuisance flooding, Dune Restoration | Medium | Monmouth University Urban Coast Institute, Naval Weapons Station Earle, Aberdeen Twp | REPI, Aberdeen Township | \$7,500,000 | 2025-2029 | New 2026 | Project goal replenishes beachfront, installs t-groin protection structures, and establishes vegetated dune system to protect municipal park and roadway. |

| Action | Name | Description | Hazards Addressed | Priority | Responsible Party | Potential Funding | Cost Estimate | Timeline | Action Status | Notes |
|-----------|---|---|--|----------|--|---|---------------|---|---------------|---|
| Action 55 | NWS Earle Oyster Restoration Research Area | Several projects lead by Monmouth University Urban Coast Institute to study the reintroduction and establishment of oysters within NWS Earle's restricted waterway. | Habitat Enhancement, Storm Surge, Water Quality | Medium | Monmouth University Urban Coast Institute (Lead), Naval Weapons Station Earle | Office of Naval Research, National Fish and Wildlife Fund | \$3,000,000 | 2022 - Present | New 2026 | Includes oyster research site, Atlantic Highlands Test Bed. Congressional District 6 sponsorship. |
| Action 56 | Oysters at Naval Weapons Station Earle Ecosystem Restoration Area | Project lead by United States Army Corps of Engineers New York District to deploy a 10-acre oyster reef within NWS Earle's Restricted Waterway. | Storm Surge, Coastal Erosion, Habitat Enhancement | Low | USACE NY-District, NJDEP, Monmouth University Urban Coast Institute, Naval Weapons Station Earle | USACE, NJDEP, US Navy, REPI | \$10,000,000+ | 2024-Present | New 2026 | |
| Action 57 | Ware Creek Nature-Based Shoreline Stabilization Project | Nature-based protection along the Monmouth County and US Navy owned shorelines adjacent to Naval Weapons Station Earle that includes oyster reef breakwaters and marsh restoration aimed to create habitat and protect the Navy's infrastructure and Ware Creek marsh. Current project includes design and permitting being funded by NFWF. | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Habitat Loss | | US Navy, Monmouth University, NY/NJ Baykeeper | National Fish and Wildlife Foundation (NFWF), FEMA, NOAA | \$5 Million | Design and Permitting: Ongoing Construction: 2 years | New 2026 | |