



9.15 City of Wildwood

This section presents the jurisdictional annex for the City of Wildwood.

9.15.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Daniel Dunn, Municipal Emergency Management Coordinator 4400 New Jersey Avenue Wildwood, NJ 08260 Phone: (609) 780-7364 d.dunn@wildwoodnj.org	Steve Booy, Zoning Officer/Floodplain Manager 4400 New Jersey Avenue Wildwood, NJ 08260 Phone: (609) 522-8622 sbooy@wildwoodnj.org

9.15.2 Municipal Profile

The City of Wildwood is located on a barrier island along the Atlantic Ocean coastline of Cape May County, New Jersey. It is bounded on the north-northeast by the Borough of West Wildwood, Township of Middle and the City of North Wildwood, on the east-southeast by the Atlantic Ocean, on the south-southwest by the Borough of Wildwood Crest and the Atlantic Ocean, and the west by the Township of Lower. It is part of the Ocean City Metropolitan Statistical Area.

Wildwood is also used as a collective term referring to the four communities with Wildwood comprising part of the municipality name — specifically the Borough of Wildwood Crest, City of Wildwood, Borough of West Wildwood and the City of North Wildwood — together with Diamond Beach, a portion of Lower Township situated on the island. Collectively, these communities are known as "The Wildwoods."

According to the U.S. Census Bureau, the city has a total area of 1.4 square miles, with 1.3 square miles of it land and 0.1 square miles of it (6.5-percent) water. It is estimated that 5,185 people reside in the City as of July 1, 2014.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map at the end of this annex, which illustrates the hazard areas along with the location of potential new development.

Table 9.15-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Address	Block / Lot	Known Hazard Zone(s)	Description / Status of Development
Recent Development from 2010 to Present						
Pine By the Boardwalk Condominiums	Residential	10 Units, 2 Structures		Block 202, Lot 41	Special Flood Hazard Area	Completed
Atlantic City Electric Substation Improvements	Commercial/Utility	Major Upgrade of Existing Substation: Addition/Refurbishment of Transformers, New		Block 189, Lot 1-45	Special Flood Hazard Area	In Progress



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Address	Block / Lot	Known Hazard Zone(s)	Description / Status of Development
		Switchgear House, and Site Improvements				
Wildwood Bike Corridor/Boardwalk Connector	Infrastructure	Tie-in To Island's Existing Bike Paths	Cresse Avenue		Special Flood Hazard Area	Completed
Known or Anticipated Development in the Next Five (5) Years						
Starlux Hotel Expansion	Commercial	67 Unit Hotel Expansion + 27 Hole, 2-Story Miniature Golf Course		Block 52, Lots 1, 5, 8, 9	Special Flood Hazard Area	Approved by Zoning Board of Adjustment
Eureka Baptist Church	Commercial	10,000 sf Church		Block 144, Lot 1	Special Flood Hazard Area	Approved by Planning Board
Burk Avenue Marina	Commercial	New 40 Slip Marina, Ship's Store, and Restaurant		Block 65, Lot 23	Special Flood Hazard Area	Approved by Zoning Board of Adjustment
Hilton Homes Suites Hotel	Commercial/Residential	210 Unit, 10 Story Condomotel		Block 195.01, Lot 16	Special Flood Hazard Area	Approved by Planning Board
Northview Development LLC	Residential	16 Units		Block 202, Lot 1	Special Flood Hazard Area	Approved by Planning Board
Conifer Realty, LLC	Residential	Redevelopment of 70 dwelling units and additional structures at Wildwood Housing Authority		Block 163, Lot 9	Special Flood Hazard Area	Approved by Zoning Board of Adjustment

* Only location-specific hazard zones or vulnerabilities identified.

9.15.3 Natural Hazard Event History Specific to the Municipality

Cape May County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2010 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.15-2. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
February 10, 2008	High Winds	No	N/A	There was minor wind damage to several buildings throughout the City.
March 5, 2008	Thunderstorms and Strong Winds	No	N/A	There were several power lines downed as a result of the storm resulting in responses from the Fire Department.



Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
May 12, 2008	Coastal Flood	No	N/A	The City experienced tidal flooding which closed many streets and roadways. Numerous power lines down due to the weather conditions.
October 28, 2008	High Wind	No	N/A	There were numerous downed power lines in the City as well as damages to several roofs of buildings throughout the City.
November 12-13, 2009	Severe Weather and Flooding associated with Tropical Depression Ida and a Nor'Easter	DR-1867	Yes	Major coastal flooding which resulted in many streets and roadways being closed. Flood and wind damage throughout the City. The Public Works garage suffered moderate damage from the flooding. Total estimated PA damages to the City were \$82,294.61
February 5-6, 2010	Severe Winter Storm and Snowstorm (blizzard)	DR-1889	Yes	Heavy snow and wind crippled the City. The power grid to the entire island was all but destroyed resulting in power outages that lasted up to and over one week. Shelters were opened at the Byrne Community Center and then the Wildwoods Convention Center for those evacuated due to power outages and no heat. Many streets and roadways were closed for several days until snow could be cleared. Public Assistance damages were in excess of \$165,000.
December 26-27, 2010	Severe Winter Storm and Snowstorm	DR-1954	Yes	Heavy snow made most roadways impassable.
August 27-28, 2011	Hurricane Irene	DR-4021	Yes	Coastal flooding, high winds, and heavy rain resulted in increased staffing of the City's Fire, Police, and Public Works Departments. There was a mandatory evacuation of the entire island. Total Public Assistance damages for Debris Removal and Emergency Protective Measures totaled \$81,598.97.
October 29, 2011	Severe Weather	DR-4048	Yes	Flooding resulted in several streets and roadways being closed. Numerous power lines were downed resulting in power outages.
June 29-30, 2012	Thunderstorms	DR-4070	No	Several downed power lines throughout the City were responded to by the City's Fire Department.
October 28, 2012	Hurricane Sandy	DR-4086	Yes	Hurricane Sandy resulted in a mandatory evacuation of the entire island. Several residents had to be transported to the Byrne Community Center which served as a transfer station to several shelters off of the island. Heavy rain, high winds, and major coastal flooding resulted in both wind and flood damage throughout the City. Several city buildings sustained damages as well as the City's beach facilities. Public Assistance damages totaled \$786,455.05.
February 14-15, 2015	High Winds	No	N/A	Numerous downed power lines throughout the City resulting in sporadic power outages.

9.15.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following summarizes the hazard vulnerabilities and their ranking in the City of Wildwood. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.



Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the City of Wildwood.

Table 9.15-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Climate Change & Sea Level Rise	RCV in +3 feet: \$756,754,360	Frequent	33	High
Coastal Erosion	RCV in CEHA: \$0	Frequent	18	Medium
Flood	1% Annual Chance: \$3,814,321,614	Frequent	54	High
Hurricanes & Tropical Storms	Category 1 SLOSH: \$3,775,514,297 Category 2 SLOSH: \$3,775,514,297 Category 3 SLOSH: \$3,775,514,297 Category 4 SLOSH: \$3,775,514,297	Frequent	54	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$9,088,448 500-year MRP: \$54,071,384 Annualized: \$630,246	Frequent	48	High
Severe Winter Weather	1% GBS: \$22,419,577 5% GBS: \$112,097,886	Frequent	51	High
Tsunami	Damage estimate not available	Rare	6	Low
Wildfire	Estimated Value Exposed to Extreme, Very High and High: \$4,906,032	Frequent	18	Medium

Notes: GBS = General building stock; MRP = Mean return period.

- a. The general building stock valuation is based on the custom inventory generated for the County utilizing improved value.
- b. High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Refer to Section 5.1 for further details on the loss methodology. Loss estimates for the Severe Weather and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH and the 2015 FEMA DFIRM for the 1-percent annual chance event. For the wildfire hazard, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the City of Wildwood.

Table 9.15-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Wildwood City	1,980	1,798	\$27,184,695	87	28	1,974

Source: FEMA, 2015

Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of July 31, 2015 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 7/31/2015.

Note (2) Total building and content losses from the claims file provided by FEMA Region 2.

Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.





Note (4) FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

Note (5) A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

Table 9.15-5. Number of Critical Facilities Located in the 1-Percent Annual Chance Flood Zone

Municipality	Facility Types																	
	Airport	Communication	County Office	EMS	Emergency Operation Center	Ferry	Fire Station	Library	Marina	Military	Municipal Hall	Place of Interest	Police Station	School	Senior Facility	Wastewater Pump	Wastewater Treatment	Well
Wildwood City	-	-	-	1	-	-	2	-	3	-	1	5	1	4	2	1	-	-

Source: Cape May County

Note: EMS – Emergency Medical Services

Other Vulnerabilities Identified by Municipality

The City of Wildwood, in its entirety is located in the 1-Percent Annual Chance Flood Zone. That being the case, all properties are susceptible to flooding. Private property owners whose homes are located below the Base Flood Elevation are particularly at risk for flood damage.

The majority of repetitive loss properties identified by FEMA are located on the west side of the city, which borders the bay side of the island. That area of the city, particularly the northern end, is more susceptible to tidal flooding during major coastal storms and northeasters. The western section of the island is bulkheaded, and the City’s stormwater outfall lines drain into the bay. In the event of an extremely high tide water will rise to the point that it fully submerges the outfall lines leading to the bay and will begin to flow back through the stormwater drainage system. If the flooding is severe enough, water will eventually rise above the bulkheads.

Aside from the facilities noted in the table above, Wildwood’s Public Works facility is also located in the Special Flood Hazard Area, on the west side of the city. During flood events that facility can be hard to reach, causing difficulty to emergency personnel. Vehicles usually located at that facility must be moved to higher ground during severe flood events. That facility also lacks backup power.

The road leading into Wildwood near the George Redding Bridge, Rio Grande Avenue, is a particularly low area. During severe flooding events that road and the George Redding Bridge are barricaded and closed by emergency personnel to protect life and property. The only access to the City of Wildwood during those events is from either Rt. 147/Spruce Avenue leading into North Wildwood (which is also susceptible to flooding) or from County Road 621/Ocean Drive through Wildwood Crest. Limited access to and from Wildwood during these times puts a greater strain on emergency services and complicates emergency evacuations when they are required.

The Pacific Avenue commercial section of Wildwood also regularly experiences flooding. Years of accretion on the beach has lengthened the beach to the point where the outfall lines from the city’s storm sewer system no longer reach the ocean. As a result, the end of the lines become blocked with sand. The storm sewer system then backs up and stormwater on Pacific Avenue doesn’t adequately drain. Wildwood Public Works/Sewer Utility has a regular schedule for digging out the outfall lines, but the problem is ongoing.



There are a variety of mitigation projects that have been considered and are in various stages of development to address these issues. Those individual projects are included in the section of this plan detailing Wildwood’s hazard mitigation initiatives.

9.15.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification
- Self-Assessment of Capability
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the City of Wildwood.

Table 9.15-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	Local	Planning	Adopted 9/17/2007
Capital Improvements Plan	No			
Floodplain Management/Basin Plan	Yes	State & Local	Planning & Construction	Ordinance #728-08 & Ordinance 1025-15
Stormwater Management Plan	Yes	State & Local	Sewer & Code Enforcement	Ordinance #666-06
Open Space Plan	Yes	Local	Planning	Master Plan 9/17/2007 Section 10.0
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	Yes	Local	Planning & Redevelopment	Master Plan 9/17/2007 Section 13.0
Comprehensive Emergency Management Plan	Yes	Local	Emergency Management	City of Wildwood Emergency Operations Plan, Adopted by Resolution 445-11-08
Emergency Response Plan	Yes	Local	Emergency Management	City of Wildwood Emergency Operations Plan, Adopted by Resolution 445-11-08
Post-Disaster Recovery Plan	No			
Transportation Plan	Yes	Local	Planning	Master Plan 9/17/2007 Section 8.0
Strategic Recovery Planning Report	No			
Other Plans:	No			
Regulatory Capability				



Table 9.15-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Building Code	Yes	State & Local	Construction Office	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes	State & Local	Planning	Ordinance # 728-08
Subdivision Ordinance	Yes	State & Local	Planning	Ordinance #728-08
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Planning & Construction	Ordinance #1025-15
NFIP: Cumulative Substantial Damages	Yes	Federal, State, Local	Planning & Construction	Ordinance #1025-15
NFIP: Freeboard	Yes	State, Local	Planning & Construction	Ordinance #1025-15
Growth Management Ordinances	Yes	Local	Planning	Master Plan 9/17/2007
Site Plan Review Requirements	Yes	State & Local	Planning	Ordinance #728-08
Stormwater Management Ordinance	Yes	State & Local	Sewer Department	Ordinance #666-06
Municipal Separate Storm Sewer System (MS4)	Yes	State & Local	Sewer Department	Ordinance #666-06
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NJAC 13:45A-29.1 & NJ Title 46:8-50
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local	Planning	“Critical Areas”—Ordinance 728-08

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the City of Wildwood.

Table 9.15-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Planning & Zoning
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	Yes	Redevelopment
Economic Development Commission/Committee	Yes	Revenue and Finance & Redevelopment
Maintenance Programs to Reduce Risk	Yes	Sewer Department & Public Works
Mutual Aid Agreements	Yes	Fire/EMS/Police
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Contracted: Remington & Vernick Engineers
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Contracted: Remington & Vernick Engineers



Table 9.15-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Planners or engineers with an understanding of natural hazards	Yes	Contracted: Remington & Vernick Engineers
NFIP Floodplain Administrator	Yes	Steven Booy
Surveyor(s)	Yes	Contracted: Remington & Vernick Engineers
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Contracted: Remington & Vernick Engineers
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Daniel Dunn, City of Wildwood Emergency Management Coordinator
Grant Writer(s)	Yes	Contracted: Triad Associates
Staff with expertise or training in benefit/cost analysis	Yes	Contracted: Remington & Vernick Engineers
Professionals trained in conducting damage assessments	Yes	Floodplain Administrator, Construction Official, OEM Coordinator

Fiscal Capability

The table below summarizes financial resources available to the City of Wildwood.

Table 9.15-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes—Revenue & Finance
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes—Water & Sewer
Impact Fees for homebuyers or developers of new development/homes	No
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	No
Open Space Acquisition Funding Programs	No
Other	No

Education/Outreach and Community Classifications

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the City of Wildwood.

Table 9.15-9. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	Yes	Class 6	8/20/2015
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	5/5	





Table 9.15-9. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 3	7/1/2015
Storm Ready	Yes	Participating	September 2009
Firewise	No	NP	N/A
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes	Website, Mailings, Presentations	
Public-Private Partnerships	No		

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within five road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the City of Wildwood’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.15-10. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability	X		



Table 9.15-10. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
	Mitigation Funding Sources Limited		
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Steven Booy, CFM—Zoning Official and Raymond Poudrier, CFM—Construction Official

Flood Vulnerability Summary

Wildwood maintains limited inventories of flood damaged properties. A list is kept of property owners who requested a reassessment of their taxes due to flood/storm damage. Also, as part of Wildwood’s CRS program lists are kept of property owners who make map inquiries regarding their property, as well as those who take advantage of the flood protection assistance service offered through activity 360. Generally, all of the property owners who avail themselves of these services are interested in mitigation solutions and possible funding sources.

An approximate guess of structures damaged by Sandy and other flood events is 50-100. The majority of those damaged were not significantly damaged. Nearly all of the damaged properties would be residential, with only a small number of commercial properties being affected. Wildwood has few out and out industrial properties, and none of those were known to be damaged. Twenty substantial damage letters were issued as a result of Hurricane Sandy. There were a few other estimates provided that did not result in a substantial damage determination. Of the twenty properties that were determined to be substantially damaged, six have been mitigated, six are in the process of mitigation and eight have not been mitigated. Funding sources for those properties being mitigated include private sources, flood insurance payouts, ICC coverage, and some grant funding.

Resources

The Flood Damage Prevention Ordinance (FDPO) identifies the Zoning Official as the NFIP Floodplain Administrator. The floodplain administrator and the Construction Official assume responsibilities for floodplain administration. All permit applications are reviewed by the Zoning Official and the Construction Official for floodplain compliance. They are both Certified Floodplain Managers. Property inspections and damage assessments to determine substantial damage and substantial improvements are also provided. Staff respond to inquiries about FIRM questions, flood insurance, sources of mitigation funding, and provide property protection advice. Upon request a site visit will be made to offer an assessment of possible mitigation solutions. Elevation certificates, maps, and other pertinent flood resources are kept on record. All educational/outreach brochures, flyers, letters, and presentations are provided by this department.





The City of Wildwood has a varied outreach program. An informational letter explaining the city’s flood risk, encouraging people to protect themselves through flood insurance, and offering numerous city-provided flood services is sent annually to all residents. Flood protection information and informational pamphlets on a number of protection, mitigation, and insurance topics are also available. There are also occasional presentations and events on different topics, including emergency preparedness, natural floodplain functions, and resiliency.

Limited resources is the major obstacle to overcome in the City’s floodplain management program. Floodplain Management is a growing area of concern, and the amount of time spent on running the program has increased steadily in recent years. A lack of funding for mitigation projects also limits what can be achieved.

The floodplain administrator is currently adequately trained for floodplain management responsibilities, although additional training would be welcome.

Compliance History

The City is currently in good standing with the NFIP. Wildwood’s most recent Community Assistance Visit was January 21st, 2015.

Regulatory

The City of Wildwood’s floodplain regulations exceed the minimum State and FEMA requirements. Examples include higher standards for cumulative substantial improvements, freeboard, and stormwater drainage.

The planning/zoning board does consider floodplain issues during its review of applications. Stormwater management reports are required and reviewed for all projects applying for major site plan or subdivision approval. Flood control, groundwater recharge, and pollutant reduction through nonstructural and low impact techniques are encouraged before relying on structural best management practices. Also, the zoning board is responsible for hearing variance applications from requirements Wildwood’s flood damage protection ordinance.

Community Rating System

The City of Wildwood will be entering the Community Rating System (CRS) program as a Class 6 community.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community’s progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: The City of Wildwood has a Master Plan that was most recently adopted in 2007 and Land Use and Development Ordinance (Ordinance 728-08). Both the Master Plan and the Land Use Ordinance address floodplain hazards. Section 700 of the Land Use Ordinance specifically addresses “critical areas” of the City, including floodplains as well as beach and dune protection. The Master Plan does not currently refer to the hazard mitigation plan. Growth in Wildwood is addressed in the Master Plan. Wildwood has been designated as a “CAFRA Center” by the State, which sets further regulatory controls on development of coastal areas.



Stormwater Management: Wildwood is an MS4 Regulated Community. The Stormwater Control Ordinance is Ordinance 666-06. The Stormwater Control Ordinance sets controls for post-construction peak runoff on “major development” to prevent overloading the existing stormwater drainage system.

Open Space: The Open Space Plan is section 11 of the Master Plan. All of Wildwood’s publicly owned beaches, which are areas of high natural hazard risk, are designated as open space, which in turn limits risks associated with development.

Re-Development Plan: Wildwood has a Bayside Redevelopment Plan.

Economic Development Plan: The Economic Development Plan is section 13 of the Master Plan.

Continuity of Operations: City of Wildwood Emergency Operations Plan. Adopted 2008.

Comprehensive Emergency Management Plan: City of Wildwood Emergency Operations Plan. Adopted 2008. It does not refer to the HMP.

Regulatory and Enforcement (Ordinances)

The Township has multiple chapters pertaining to the mitigation of hazards. The Land Use and Development Ordinance (#728-08) contains regulations and standards for development in floodplains (AE & VE zones), preservation of beaches & dunes, and management of stormwater caused by new development. Stormwater Management Reports, Soil Erosion & Sediment Control plans, a Statement of Environmental Impact & Assessment are required as part of applications for major development. An Emergency Operations Management Plan is also required to be submitted and reviewed by City officials for certain development. Wildwood is a mostly built-out municipality with utility infrastructure already in place and sufficient for most development.

The provisions in Wildwood’s Flood Damage Prevention Ordinance exceed Federal and State NFIP requirements. There are provisions for increased freeboard, cumulative substantial damage, cumulative substantial improvement, and higher regulatory standards. These increased standards are reflected in Wildwood’s designation as a Class 6 CRS Community.

Operational and Administration

Land Use Planning: Remington & Vernick Engineers is Wildwood’s contracted planner. Natural hazard risk reduction is considered as part of all regulatory and long-term planning. Wildwood has a Planning Board and Zoning Board of Adjustment. Those boards are responsible for administering the site plan, subdivision, and variance requirements of the Land Use and Development Ordinance. Stormwater management, soil & erosion control, and Environmental Impact Assessments are all reviewed as part of land use decision making. The Planning Board contributed to the development of the Master Plan and Land Use and Development Ordinance, and is responsible for determining that future plans are in compliance with the approved Master Plan.

Stormwater Management: The Wildwood Sewer Utility is responsible for maintenance and management of the stormwater sewer system. The Planning Board and Zoning Board of Adjustment perform reviews of stormwater impact from new development.

Floodplain Management: Steven Booy, CFM—Zoning Official and Raymond Poudrier, CFM—Construction Official, perform the NFIP Floodplain Management functions.

Technical Resources: The City has contractor support for benefit cost analysis and grant application development. Both the Zoning and Construction Officials are Certified Floodplain Managers and receive continuing



education as part of that certification; however, staff would benefit from additional information on pre-disaster grant funding sources for mitigation projects.

Other Programs: Regular maintenance of outfall lines on beach is required due to accretion of beach.

Administration: The Floodplain Administrator, Construction Official, and City Engineers all have job descriptions that specifically include identifying and/or implementing efforts to reduce natural hazard risk. Staff participate in associations and organizations that support natural hazard risk reduction capabilities including the New Jersey Association for Floodplain Management, the Association of State Floodplain Managers, Building Officials and Code Administrators, and the South Jersey Electrical Inspectors Association.

Funding

Operating Budget: The City’s operating budget does not contain line items for mitigation projects/activities. Capital Improvements are submitted as part of each year’s budget requests.

Grants: Following Hurricane Sandy, Wildwood applied for HMGP funding for 1) elevation of houses, 2) elevation of bulkheads, 3) funding to extend the eastside outfall lines (mitigation action CW-25). No grant money was awarded.

Education and Outreach

Wildwood has a varied outreach program. An informational letter explaining the city’s flood risk, encouraging people to protect themselves through flood insurance, and offering numerous city-provided flood services is sent annually to all residents. Flood protection information and informational pamphlets on a number of protection, mitigation, and insurance topics are also available. There are also occasional presentations and events on different topics, including emergency preparedness, natural floodplain functions, and resiliency. A dedicated Program for Public Information (PPI) for Wildwood would help promote the effectiveness of current outreach efforts and involve more stakeholders in those efforts.

9.15.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.15-11. Past Mitigation Initiative Status

Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
CW-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	City (likely through NFIP Floodplain Administrator)	In Progress	1. 68 out of 229 substantial damage properties have been mitigated on Wildwood’s repetitive loss list. Approximately 30%. 2. 3. Funding through homeowner’s private funds, ICC coverage, and various grant programs.	Include in 2016 HMP	1. 2.
CW-1b	Where appropriate, support purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that	City	No Progress	1. 2. Relocation of hazard-prone structures is not feasible because the entire municipality is located in a Special Flood Hazard Area. Budget constraints also would not allow for the purchase of properties. 3.	Discontinue	1. 2. Relocation of structures outside of the hazard area is not feasible. The entire municipality is located in a Special Flood Hazard Area.



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	action based on available funding.					
CW-2	Consider participation in incentive-based program CRS.	City	Complete	1. Wildwood has joined the CRS program. 100% complete. 2. 3. Local Budget	Include in 2016 HMP	1. Continue to develop and improve existing floodplain management program so as to attain a higher CRS rating. 2.
CW-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	City (through mitigation planning point of contacts)	In Progress	1. Participating in current plan update. 2. 3. Local Budget	Include in 2016 HMP	1. 2.
CW-4	Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	Municipality (likely through NFIP Floodplain Administrator)	Complete	1. Community Assistance Visit (CAV) and letter of full compliance issued 2/10/2015. 100% complete. 2. 3. Local Budget	Include in 2016 HMP	1. 2.
CW-5	Continue to develop, enhance, and implement existing emergency plans.	Municipal Emergency Manager with support from County OEM and NJ OEM	In Progress	1. Updated Emergency Operations Plan in 2012 and approved by State. 2. Began conversion of Emergency Operations Plan into ESF format. Began development of MOU's. 3. Local Budget	Include in 2016 HMP	1. Complete conversion of Emergency Operations Plan into ESF format. 2. Develop and implement MOU's with neighboring jurisdictions for resources during emergencies.
CW-6	Enhance and/or maintain mutual aid agreements with neighboring communities.	City	In Progress	1. Automatic aid for fire response agreements with the City of North Wildwood and Borough of West Wildwood. Set up island wide alarm assignments. 2. 3. Local Budget	Include in 2016 HMP	1. Continue to enhance automatic aid agreements with neighboring jurisdictions. 2.
CW-7	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the	Local departments (as applicable for	In Progress	1. Offering continued support and cooperation to achieve objectives CMC-1a, CMC-2, CMC-3, CMC-4, CMC-5, CMC-6, CMC-10, CMC-19	Include in 2016 HMP	1. 2.



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	Cape May County Hazard Mitigation Plan.	specific initiative)		2. 3. Local Budget, ICC coverage, various grant programs.		
CW-8	Replace bulkheads at street-ends (west side of the City).	City	In Progress	1. 14 bulkheads have been replaced/are in good sound condition. 70% complete. 2. 3. Local Budget, USDA Grants	Include in 2016 HMP	1. Replace remaining old bulkheads at street-ends (west side of the City). 2.
CW-9	Continue to enforce that all new construction, buildings substantially damaged, or substantially improved be elevated above the Base Flood.	City	In Progress	1. Base Flood Elevation requirements are enforced for all new construction in order to maintain compliance with NFIP. 100% complete. 2. 3. Local Budget	Include in 2016 HMP	1. Continue to enforce that all new construction, buildings substantially damaged, or substantially improved be elevated at least 2 feet above the Base Flood Elevation through Wildwood's Flood Damage Prevention Ordinance and construction ordinances. 2.
CW-10 (CMC-10)	Elevate Route 47 from George Redding Bridge to Susquehanna Ave to mitigate flooding	State DOT	In Progress	1. Project is currently in planning stage. The County has acquired one property and completed construction of a turning lane off of Susquehanna Avenue to alleviate traffic congestion. 2. 3. County funding.	Include in 2016 HMP	1. 2.
CW-11	Replace all 10- to 15-year old Tideflex valves already in place.	City	Complete	1. Tideflex check valves are replaced as necessary as part of regular maintenance on storm sewer system. 100% complete. 2. 3. Local Budget	Include in 2016 HMP	1. Continue regular replacement and maintenance of Tideflex check valves on all outfall lines on bayside of island. 2.
CW-12	Repair and/or replace the existing bulkhead / revetments on Grassy Sound Channel between the Beach	City Engineering	No Progress	1. 2. Project is currently in planning stage and anticipated to be coordinated as part of a large scale refurbishment of the Rio	Include in 2016 HMP	1. 2.



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	Creek Restaurant and under the Boathouse Restaurant. Currently there is no bulkhead under the Boathouse Restaurant. Tidewaters crest the existing revetment and contribute to flooding at the intersection of Rio Grande Ave. – Susquehanna Ave.			Grande entryway. Project is delayed until objective CMC-10 (CW-10) is completed. 3.		
CW-13	Replace ineffective 48-inch tide flex valve at Outfall #1 to mitigate flooding at the Rio Grande Avenue – Susquehanna Avenue intersection.	City Engineering	Complete	1. New Tideflex valve has been replaced. 100% complete. 2. 3. Local Budget	Choose an item.	1. 2. Action has been accomplished. Maintenance will be included as part of future objective CW-11
CW-14	Replace the existing storm drainage system out-letting through Outfall #2, including Old Rio Grande Avenue to mitigate flooding at the Rio Grande Avenue – Susquehanna Avenue intersection. This new construction may include a watertight penetration of the bulkhead, new tide flex valve, new 18-inch diameter HDPE/DIP, new catch basins and manholes from the existing bulkhead to the most upstream manhole at Old Rio Grande Avenue (to the north).	City Engineering	No Progress	1. 2. Project is currently in planning stage and anticipated to be coordinated as part of a large scale refurbishment of the Rio Grande entryway. Project is delayed until objective CMC-10 (CW-10) is completed. 3.	Include in 2016 HMP	1. 2.



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
CW-15	Replace catch basin curb boxes with J-ECO curb boxes to mitigate flooding at the Rio Grande Avenue – Susquehanna Avenue intersection.	City Engineering	In Progress	1. Existing catch basin curb boxes are replaced with J-ECO curb boxes as part of all road construction projects. 100% complete. 2. 3. Local Budget & USDA Grants	Include in 2016 HMP	1. Continue replacement of existing catch basin curb boxes with J-ECO curb boxes throughout city. 2.
CW-16	Construct a storm water pump station and emergency generator building sized to pump the design storm into Grassy Sound Channel.	City Engineering	No Progress	1. 2. Project has not moved forward. Alternative pump locations have been considered and installed, one at Susquehanna and Ottens Harbor to service surrounding streets. 3.	Include in 2016 HMP	1. Explore the benefit of installing additional storm water pump stations at certain locations that experience severe flooding. 2.
CW-17	Repair/replace the existing bulkhead at Block 79, Lots 38, 39 & 40 which are in need of serious repair/replacement. Currently the bulkhead is crested allowing flooding of W. Burk Avenue – Hudson Avenue (by property owners). These repairs/replacements need to meet the requirements of the current Bulkhead Ordinance.	City Engineering	Complete	1. Bulkhead at Block 79, Lots 38-40 has been replaced. 100% complete. 2. 3. Private funding by developer.	Discontinue	1. 2. Project has been accomplished.
CW-18	Complete construction of the bulkhead at Block 78, Lots 29 and 33 to mitigate flooding and ensure it conforms with the current Bulkhead Ordinance.	City Engineering	Complete	1. Bulkhead at Block 78, Lots 29 and 33 has been replaced. 100% complete. 2. 3. Private funding by property owner.	Discontinue	1. 2. Project has been accomplished.
CW-19	Install a 4-inch Tideflex valve at Outfall #8 for the 4-	City Engineering	Complete	1. Tideflex valve has been installed. 100% complete. 2.	Discontinue	1. 2. Action has been accomplished. Maintenance



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	inch drain in West Tacony Road to mitigate flooding.			3. Local Budget		will be included as part of future objective CW-11.
CW-20	Install new 18-inch Tideflex valve at Hudson Avenue Outfall #7 to mitigate flooding. Reconstruct West Tacony Road (from Mediterranean Ave to Park Blvd) to drain to adjacent intersections and existing stormwater drainage facilities.	City Engineering	Complete	1. Tideflex valve has been installed and reconstruction of West Tacony Road was completed in 2015. 100% complete. 2. 3. Local Budget & USDA Grant	Discontinue	1. 2. Action has been accomplished.
CW-21	Relocate conflicting utilities at the intersection of Susquehanna Ave and Burk Ave install a new lateral connecting the catch basins with a positively sloped pipe, eliminating the loss of head.	City Engineering	No Progress	1. 2. Limited funding. 3.	Include in 2016 HMP	1. 2.
CW-22	Install new 18-inch Tideflex valve at Mediterranean Avenue - Otten's Harbor Outfall #5 and seal around the pipe to mitigate tidewaters flowing back into the storm drainage system and flooding tributary streets.	City Engineering	Complete	1. New Tideflex valve has been installed. 2. 3. Local Budget	Discontinue	1. 2. Mitigation action has been accomplished. Maintenance of outfall line will be included as part of future objective CW-11.
CW-23	Replace catch basins and laterals, and install outfall pipe with 18-inch Tideflex valve at Mediterranean Avenue – W. Taylor Avenue intersection Outfall #4 to	City Engineering	No Progress	1. 2. Limited resources have delayed this project. 3.	Include in 2016 HMP	1. 2.



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	mitigate flooding. Outfall #4 has an invert below the ground level thus impeding the outlet of storm runoff.					
CW-24	Repair, restructure and reinforce the existing revetment on north side of Mediterranean Avenue at W. Taylor Avenue to mitigate flooding.	City Engineering	No Progress	1. 2. Lack of funding and prioritizing other projects have delayed this action. 3.	Include in 2016 HMP	1. 2.
CW-25	From the July 2003 Storm Sewer Outfall Redesign: Re-engineer the existing outfall system to eliminate the existing ineffective (below-grade) functionally obsolete outfalls to mitigate flooding, health and safety hazards, beach closings and losses to the local economy. One proposed solution is to consolidate the storm water collection system into a detention basin which will then pump the storm water system through a single outfall line extending into the ocean.	City	No Progress	1. 2. This is a significant project that requires substantial funding. Until funding is obtained the project is delayed. 3.	Include in 2016 HMP	1. 2.
CW-26	Repair, restructure and reinforce the earthen berm where there is a breach at the W. Taylor Ave intersection.	City Engineering	No Progress	1. 2. Limited resources and funding have delayed this project. Other projects have been undertaken instead. 3.	Include in 2016 HMP	1. 2.
CW- 27	Replace the existing, deteriorated bulkhead at	City Engineering	In Progress	1. The bulkhead at the street-end has been replaced by the City. The City is	Include in 2016 HMP	1. Replace the existing, deteriorated bulkhead at



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	Juniper Avenue, to mitigate flooding and ensure it conforms with the current Bulkhead Ordinance.			pursuing an enforcement action against an adjoining property owner to repair/replace the bulkhead on that property. 2. 3. Local Budget & USDA Grant		Block 249.01, Lot 1 which is severely deteriorated and compromised. These repairs must conform with the current Bulkhead Ordinance. 2.
CW-28	Explore the concept of “Sheltering In-Place” in vertical development as a viable option to traditional evacuation.	City	In Progress	1. The concept has been discussed but no studies on the effectiveness of “Sheltering In-Place” or changes to Wildwood’s current evacuation plan have been made. 2. 3. Local Budget	Include in 2016 HMP	1. 2.



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The City has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

- Amend existing bulkhead ordinance to increase the required height of all bulkheads (project led by Planning & City Engineering, funded by the local budget, 100% percent complete)
- Explore the viability of constructing bulkheads at the street-ends of Oak and Wildwood Avenues to replace the rip-rap armored banks. (project led by Planning & City Engineering, funded by the local budget, project is in the planning/bid stage, 5% complete)
- Explore and possibly establish a Program for Public Information (PPI) with neighboring municipalities to enhance floodplain management outreach efforts (project led by Planning, funded by the local budget, Atlantic/Cape Coastal Coalition is working toward achieving this goal, 10% complete)

Proposed Hazard Mitigation Initiatives for the Plan Update

Table 9.15-12 summarizes the comprehensive-range of specific mitigation initiatives the City would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, fourteen evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High,’ ‘Medium,’ or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.15-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.15-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
CW-1a (former CW-1a)	Property Mitigation Support – Retrofit: Where appropriate, support retrofitting (e.g. elevation) of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.											
	Funding sources: FEMA Mitigation Grant Programs (primarily HMGP and FMA); local property owner for match as supported by ICC and other non-Federal match sources as available.											
	See above.	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 2, 4, 6	City (likely through NFIP Floodplain Administrator)	High	High	See above.	Long-term DOF	Medium-High	EAP, SIP	PI, PP
CW-1b (former CW-1b)	Property Mitigation Support – Acquisition/Relocation: Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for acquisition/relocation based on cost-effectiveness versus retrofitting. Where acquisition/relocation is determined to be a viable option, consider implementation of that action based on available funding.											
	Funding sources: FEMA Mitigation Grant Programs (primarily HMGP and FMA); local property owner for match as supported by ICC and other non-Federal match sources as available.											
	See above.	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 2, 4, 6	City (likely through NFIP Floodplain Administrator)	High	High	See above.	Long-term DOF	Medium-High	EAP, SIP	PI, PP
CW-2 (former CW-2)	Continue to develop and improve existing floodplain management program so as to attain a higher CRS rating.	New & Existing	Flood	1, 2, 6	City	High	Low - Medium	Local Budget	Short	High	All	All
CW-3 (former CW-3)	Continue to support the implementation, monitoring, maintenance, and updating of this plan, as defined in Section 7.0	New & Existing	All Hazards	1 through 6	City (through mitigation planning point of contacts)	Medium	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Ongoing	Medium	LPR, EAP	PR, PI
CW-4 (former CW-4)	Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	New & Existing	Flood	1, 2, 4, 5, 6	Municipality (likely through NFIP Floodplain Administrator)	Low	Low - Medium	Local Budget	Ongoing	High	LPR, NSP, EAP	PP, PI, NR



Table 9.15-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
CW-5 (former CW-5)	Complete conversion of Emergency Operations Plan into ESF format.	New & Existing	All Hazards	1, 3, 4, 6	Municipal Emergency Manager with support from County OEM and NJ OEM	Low	Low - Medium	Local Budget	Ongoing	Medium	LPR, EM*	PR, EM
CW-6	Develop and implement MOU's with neighboring jurisdictions for resources during emergencies.	New & Existing	All Hazards	1, 3, 4, 6	Municipal Emergency Manager with support from County OEM and NJ OEM	Low	Low - Medium	Local Budget	Ongoing	Medium	LPR, EM*	PR, EM
CW-7 (former CW-6)	Continue to enhance automatic aid agreements with neighboring jurisdictions.	New & Existing	All Hazards	1, 3, 4, 6	City	Low	Low - Medium	Local Budget	Ongoing	Medium	LPR, EM*	PR, EM
CW-8 (former CW-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	1 through 6	Local departments (as applicable for specific initiative)	Low - Medium	Low - High	Existing programs and grant funding where applicable	Ongoing – Long-term depending on initiative	Medium – High (dependent)	All	All
CW-9 (former CW-8)	Replace remaining old bulkheads at street-ends (west side of the City).	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 4	City	High	Medium to High	HMA and local budget for match, USDA Grants	DOF	Medium	SIP	SP
CW-10 (former CW-9)	Two Foot Freeboard: Continue to enforce that all new construction, buildings substantially damaged, or substantially improved be elevated at least 2 feet above the Base Flood Elevation through Wildwood's Flood Damage Prevention Ordinance and construction ordinances.											
	See above.	New & Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 4	City	Low	Low	Local	On-going	High	LPR	PR
CW-11 (former CW-10 (CMC-10))	Elevate Route 47 from George Redding Bridge to Susquehanna Ave to mitigate flooding	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 3, 4	State DOT	High	High	State	Long-term DOF	Medium	SIP	PP, SP





Table 9.15-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
CW-12 (former CW-11)	Continue regular replacement and maintenance of Tideflex check valves on all outfall lines on bayside of island.	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 3, 4	City	High	High	HMA and local match	Short-term, DOF	Medium	SIP	PP
CW-13 (former CW-12)	Repair and/or replace the existing bulkhead / revetments on Grassy Sound Channel between the Beach Creek Restaurant and under the Boathouse Restaurant. Currently there is no bulkhead under the Boathouse Restaurant. Tidewaters crest the existing revetment and contribute to flooding at the intersection of Rio Grande Ave. – Susquehanna Ave.											
	See above.	Existing	Flood, Severe Weather	1, 4	City Engineering	High	Approx. \$125,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	SP
CW-14 (former CW-14)	Replace the existing storm drainage system out-letting through Outfall #2, including Old Rio Grande Avenue to mitigate flooding at the Rio Grande Avenue – Susquehanna Avenue intersection. This new construction may include a watertight penetration of the bulkhead, new tide flex valve, new 18-inch diameter HDPE/DIP, new catch basins and manholes from the existing bulkhead to the most upstream manhole at Old Rio Grande Avenue (to the north).											
	See above.	Existing	Flood, Severe Weather	1, 3, 4	City Engineering	High - Medium	Approx. \$100,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	SP
CW-15 (former CW-15)	Continue replacement of existing catch basin curb boxes with J-ECO curb boxes throughout city.	Existing	Flood, Severe Weather	1, 3	City Engineering	Medium	Approx. \$20,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	PP
CW-16 (former CW-16)	Explore the benefit of installing additional storm water pump stations at certain locations that experience severe flooding.	New & Existing	Flood, Severe Weather	1, 3, 4	City Engineering	High	Approx. \$2,000,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	LPR, SIP	PR, PP
CW-17 (former CW-21)	Relocate conflicting utilities at the intersection of Susquehanna Ave and Burk Ave install a new lateral connecting the catch basins with a positively sloped pipe, eliminating the loss of head.	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 3	City Engineering	High	Approx. \$50,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	SP
CW-18 (former CW-23)	Replace catch basins and laterals, and install outfall pipe with 18-inch Tideflex valve at Mediterranean Avenue – W. Taylor Avenue intersection Outfall #4 to mitigate flooding. Outfall #4 has an invert below the ground level thus impeding the outlet of storm runoff.											
	See above	Existing	Hurricane / Tropical	1, 3	City Engineering	High	Approx. \$65,000	HMA grant funding;	Long-term DOF	Medium	SIP	SP



Table 9.15-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
			Storm, Flood, Severe Weather				(total project cost)	city budget for local match				
CW-19 (former CW-24)	Repair, restructure and reinforce the existing revetment on north side of Mediterranean Avenue at W. Taylor Avenue to mitigate flooding.	Existing	Coastal Erosion Hurricane / Tropical Storm, Flood, Severe Weather	1, 3	City Engineering	High	Approx. \$50,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	PP, SP
CW-20 (former CW-25)	From the July 2003 Storm Sewer Outfall Redesign: Re-engineer the existing outfall system to eliminate the existing ineffective (below-grade) functionally obsolete outfalls to mitigate flooding, health and safety hazards, beach closings and losses to the local economy. One proposed solution is to consolidate the storm water collection system into a detention basin which will then pump the storm water system through a single outfall line extending into the ocean.											
	See above	New & Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 3, 4	City	High	Approx. \$15 Million	HMA, other federal grants, and local match	Long-term, DOF	Medium	SIP	SP
CW-21 (former CW-26)	Repair, restructure and reinforce the earthen berm where there is a breach at the W. Taylor Ave intersection.	Existing	Coastal Erosion, Hurricane / Tropical Storm, Flood, Severe Weather	1, 3	City Engineering	High	Approx. \$50,000	HMA grant funding; city budget for local match	Long-term DOF	Medium	SIP	PP, SP
CW-22 (former CW-27)	Replace the existing, deteriorated bulkhead at Block 249.01, Lot 1 which is severely deteriorated and compromised. These repairs must conform with the current Bulkhead Ordinance.	Existing	Hurricane / Tropical Storm, Flood, Severe Weather	1, 4	City Engineering	High	Approx. \$55,000	HMA grant funding; city budget for local match	Long-term DOF	Medium - High	SIP	SP
CW-23 (former CW-28)	Explore the concept of "Sheltering In-Place" in vertical development as a viable option to traditional evacuation.	N/A	All Hazards (except Coastal Erosion, Wildfire)	1, 4	City	Medium	Low to Medium	Local Budget (DHS funding as applicable)	Short	Medium	LPR	ES



Table 9.15-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
CW-24	Explore the viability of constructing bulkheads at the street-ends of Oak and Wildwood Avenues to replace the rip-rap armored banks.	New and Existing	Flood, Coastal Erosion, Severe Weather	1, 3	Engineering	Medium	Low to Medium	Municipal Budget	Short Term / DOF	Medium	SIP	PP
CW-25	Explore and possibly establish a Program for Public Information (PPI) with neighboring municipalities to enhance floodplain management outreach efforts	New and Existing	Flood, Coastal Erosion	1, 2, 6	Emergency Management; support from Atlantic-Cape May Coastal Coalition	Medium to High	Low	Municipal Budget	Short Term / DOF	Medium	EAP	PI
CW-26	Wildwood’s Public Works facility Mitigation: Install backup power and investigate/identify and implement appropriate and cost-effective mitigation action(s) to address facility accessibility issues during flood events. Wildwood’s Public Works facility is located in the Special Flood Hazard Area, on the west side of the city. During flood events that facility can be hard to reach, causing difficulty to emergency personnel. Vehicles usually located at that facility must be moved to higher ground during severe flood events. That facility also lacks backup power.											
	See above.	Existing	Flood; Hurricane / Tropical Storm; CC/SLR	1, 2	Public Works, Administration	Medium to High	Medium to High	HMGP with local cost share	Short Term / DOF	High	SIP	PP
CW-27	Pacific Avenue Mitigation: Investigate/identify and implement appropriate and cost-effective mitigation action(s) to address localized flooding along the commercial section of Pacific Avenue in Wildwood. The Pacific Avenue commercial section of Wildwood also regularly experiences flooding. Years of accretion on the beach has lengthened the beach to the point where the outfall lines from the city’s storm sewer system no longer reach the ocean. As a result, the end of the lines become blocked with sand. The storm sewer system then backs up and stormwater on Pacific Avenue doesn’t adequately drain. Wildwood Public Works/Sewer Utility has a regular schedule for digging out the outfall lines, but the problem is ongoing.											
	See above.	Existing	Flood; Hurricane / Tropical Storm; CC/SLR	1, 2	Public Works, Administration	Medium to High	Medium to High	HMGP with local cost share	Short Term / DOF	High	SIP	PP

Notes:

Not all acronyms and abbreviations defined below are included in the table.

(1) Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

(2) While Climate Change and Sea Level rise are not specifically identified as “hazards mitigated” in this table, it is recognized that climate change and sea level rise may exacerbate/amplify the risk of the following identified hazards: Climate Change – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Severe Weather, Severe Winter Weather, Wildfire; Sea Level Rise – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Tsunami.

Acronyms and Abbreviations:

CAV Community Assistance Visit
 CRS Community Rating System
 DPW Department of Public Works

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 PDM Pre-Disaster Mitigation Grant Program

Timeline:

Short 1 to 5 years
 Long Term 5 years or greater
 OG On-going program





Acronyms and Abbreviations:

FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

RFC	Repetitive Flood Claims Grant Program (discontinued)
SRL	Severe Repetitive Loss Grant Program (discontinued)

Timeline:

DOF Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

- Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
- Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
- High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

- Low Long-term benefits of the project are difficult to quantify in the short term.
- Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
- High Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities
- Emergency Management (EM) – These actions are identified as an emergency management activity; however, they are not necessarily “mitigation”

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities





Table 9.15-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
CW-1a (former CW-1a)	Property Mitigation Support – Retrofit	1	1	1	1	1	0	0	0	1	1	1	1	1	0	10	Medium-High*
CW-1b (former CW-1b)	Property Mitigation Support – Acquisition/Relocation:	1	1	1	1	1	0	0	0	1	1	1	1	1	0	10	Medium-High
CW-2 (former CW-2)	Continue to develop and improve existing floodplain management program so as to attain a higher CRS rating.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
CW-3 (former CW-3)	Continue to support the implementation, monitoring, maintenance, and updating of this plan, as defined in Section 7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-4 (former CW-4)	Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
CW-5 (former CW-5)	Complete conversion of Emergency Operations Plan into ESF format.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-6	Develop and implement MOU’s with neighboring jurisdictions for resources during emergencies.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-7 (former CW-6)	Continue to enhance automatic aid agreements with neighboring jurisdictions.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-8 (former CW-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium – High (dependent)
CW-9 (former CW-8)	Replace remaining old bulkheads at street-ends (west side of the City).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-10 (former CW-9)	Two Foot Freeboard	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
CW-11 (former CW-10 (CMC-10))	Elevate Route 47 from George Redding Bridge to Susquehanna Ave to mitigate flooding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-12 (former CW-11)	Continue regular replacement and maintenance of Tideflex check valves on all outfall lines on bayside of island.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-13 (former CW-12)	Repair and/or replace the existing bulkhead / revetments on Grassy Sound Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-14 (former CW-14)	Replace the existing storm drainage system out-letting through Outfall #2, including Old Rio Grande Avenue to mitigate flooding at the Rio Grande Avenue – Susquehanna Avenue intersection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium





Table 9.15-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
CW-15 (former CW-15)	Continue replacement of existing catch basin curb boxes with J-ECO curb boxes throughout city.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-16 (former CW-16)	Explore the benefit of installing additional storm water pump stations at certain locations that experience severe flooding.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-17 (former CW-21)	Relocate conflicting utilities at the intersection of Susquehanna Ave and Burk Ave install a new lateral connecting the catch basins with a positively sloped pipe, eliminating the loss of head.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-18 (former CW-23)	Replace catch basins and laterals, and install outfall pipe with 18-inch Tideflex valve at Mediterranean Avenue – W. Taylor Avenue intersection Outfall #4 to mitigate flooding.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-19 (former CW-24)	Repair, restructure and reinforce the existing revetment on north side of Mediterranean Avenue at W. Taylor Avenue to mitigate flooding.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-20 (former CW-25)	From the July 2003 Storm Sewer Outfall Redesign	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-21 (former CW-26)	Repair, restructure and reinforce the earthen berm where there is a breach at the W. Taylor Ave intersection.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-22 (former CW-27)	Replace the existing, deteriorated bulkhead at Block 249.01, Lot 1 which is severely deteriorated and compromised. These repairs must conform with the current Bulkhead Ordinance.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium - High
CW-23 (former CW-28)	Explore the concept of “Sheltering In-Place” in vertical development as a viable option to traditional evacuation.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
CW-24	Explore the viability of constructing bulkheads at the street-ends of Oak and Wildwood Avenues to replace the rip-rap armored banks.	1	1	1	1	0	0	0	1	0	1	1	0	0	0	7	Medium
CW-25	Explore and possibly establish a Program for Public Information (PPI) with neighboring municipalities to enhance floodplain management outreach efforts	1	1	1	1	0	0	0	1	0	1	1	0	0	0	7	Medium
CW-26	Wildwood’s Public Works facility Mitigation	1	1	1	1	0	0	0	1	1	1	1	1	0	0	9	High
CW-27	Pacific Avenue Mitigation	1	1	1	1	0	0	0	1	1	1	1	1	0	0	9	High

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions. Where the community has determined that the original priority ranking for “carry forward” initiatives remains valid, the earlier priority ranking is indicated on the prioritization table, however the 2016 criteria ratings are indicated with a null “-” marking.





- * *The municipality recognizes that the mitigation of RL/SRL priorities is a Federal and State priority despite the fact that limited local resources and authority limit the municipality's ability to implement this project.*



9.15.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.15.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the City of Wildwood that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the City of Wildwood has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.15.9 Additional Comments

None at this time.



Figure 9.15-1. City of Wildwood Hazard Area Extent and Location Map 1

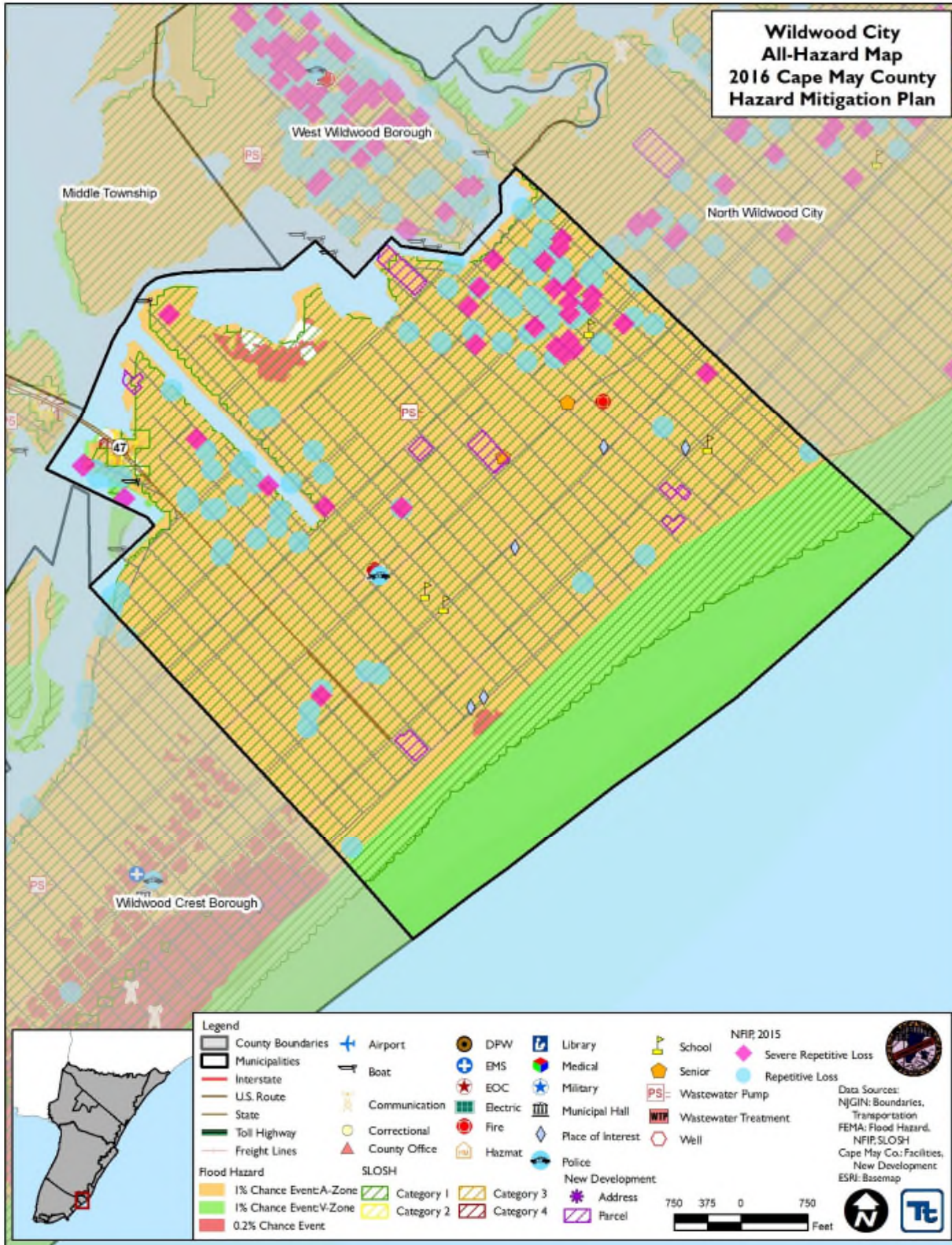




Figure 9.15-2. City of Wildwood Hazard Area Extent and Location Map 2

