

## 49 – TINTON FALLS BOROUGH

### PLANNING TEAM AND PARTICIPATION

Name	Title	Participation
Dave Boehning	Emergency Management Coordinator	Point of Contact, Municipal Workshop #1
Thomas Neff	Borough Engineer	Municipal Workshop #2
Charles Terefenko	Borough Administrator & Director of Public Safety	Review Appendix

### COMMUNITY PROFILE

#### Overview

The Borough of Tinton Falls has a land area of 15.20 square miles and though bisected by the Garden State Parkway, is known for its varied uses. Tinton Falls is home to portions of Fort Monmouth, Naval Weapons Station Earle and the Tinton Falls itself, located north of the Route 13A and Tinton Ave intersection.

In 2021 Tinton Falls was awarded an Open Space Trust Fund matching grant from the Monmouth County Board of County Commissioners for the development of Wardell Park on Wardell Road. The park, acquired through NJDEP Green Acres funding and the borough's Open Space Trust Fund, will be located on approximately two acres of the 45-acre Wardell Park property. The existing open space surrounding Wardell Park will be preserved for passive recreation. In 2021, the Borough allocated \$3.7 million in funding from the Open Space Trust Fund and a County Open Space Grant to install improvements at Sycamore Recreation Complex, Liberty Park II, Riverdale West Park and Hockhockson Park.

#### Land Use, Development, & Growth

Tinton Falls is home to substantial publicly owned and residential land, as well as several parcels of commercial, industrial and agricultural land. As a result, there is no predominant land use in the Borough; urban or developed land constitutes 41 percent of its area, while wetlands and forested land each account for 21 percent of its land base. From 2015 to 2020, the Roosevelt did not experience any significant change in its land use. Between 2015 and 2020, Tinton Falls lost nearly 187 acres of forests and 21.5 acres of wetlands, while gaining 200 acres of developed land.

Between 2016 and 2022, Tinton Falls Borough's Farm land and Commercial land use decreased by 35% and 21%, respectively. According to NJDEP's Land Use/Land Cover dataset, between 2015 and 2020, its forested land decreased by 187 acres while its Urban land increased by nearly 200 acres. Throughout this period, the share of Urban/Developed land was around 49% of the total land. In 2020, Wetlands and Forest land accounted for 21% each of the total land area.

Land Use Type	Total Acres (2015)	Total Acres (2020)	Percent Change
Agriculture	97.3	93.6	-4%
Barren Land	599.1	610.6	2%
Forest	2295.9	2108.8	-8%
Urban	4745.1	4945.4	4%
Water	116.9	117.5	1%
Wetlands	2136.8	2115.3	-1%

Source: NJDEP Land Use/Land Cover data, 2015-2020

#### Recent Major Development and Infrastructure from 2020 to Present

Tinton Falls has experienced both residential and commercial development since 2020. As far as residential development, 45 single-family homes called Anthem Place, 243 townhouses and condominiums called Patriots Square, 70 one-bedroom apartment units in Solider on Veterans Housing at 275 Essex Road, and 112 beds at All American Assisted Living at 1530 West Park Avenue have been constructed. Anthem Place and Patriots Square fall within FEMA's "Area of Undetermined Flood Risk" (NJFloodMapper).

There has been significant commercial development over the past five years. This includes 369 Essex Road Warehouse, 57 Apple Street Office Building, 5030 Shafto Road Warehouse, FLM Associates Flex Space (3212 Shafto Road), Stavola Flex Space (1511 Wayside Road), 150 Tornillo Way Flex Space, 151 Tornillo Way Flex Space, Medline Warehouse (1470 Shafto Road), Amazon Warehouse (1251 Jumping Brook Road), Mid-Monmouth Tech Center Warehouse (1200 Pine Brook Road), and Suburban Disposal (5299 Asbury Avenue).

### **Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years**

Ironworks Crossing, a 108-unit townhouse development, is an approved residential development currently under construction.

Commercial development that has been approved to be constructed or is under construction includes Massaro Realty Warehouse/Flex Space (3162 Shafto Road), Stavola Wayside West Commercial Development (1810 Wayside Road), Mid-Monmouth Tech Center II Warehouse (Park Road), Stavola Flex Space (Centre Plaza), Cutler Produce Warehouse (301 Commerce Drive), RWJ Barnabas Vogel Medical Campus (100 Pearl Harbor Road), 49 Shark River Road Warehouse, 5171 Asbury Ave Self Storage Facility, Platinum Properties Liquor Store (990 Shrewsbury Ave), and 91 Apple Street Office Building. RWJ Barnabas Vogel Medical Campus falls within FEMA's "Area of Undetermined Flood Risk" (NJFloodMapper).

### **Demographics & Vulnerable Populations**

This plan analyzed census-derived data on population trends and population age distributions to help illustrate potential vulnerability within the borough. A population increase or decrease can illustrate potential hazard vulnerability through development pressures on the built environment, or through physical and social impacts of marked population loss. A community with a large share of population under age five may indicate vulnerabilities in hazard response, resource allocation, and evacuation – FEMA identifies that the pediatric population is disproportionately affected during disasters, and requires special consideration in categories of anatomy and physiology, psychological, and education vulnerabilities (FEMA, 2022, NLM, 2022). Individuals over age 65 are a growing share of the country's population and often represent the greatest share of deaths from extreme weather events and other natural disasters. A larger share of population over 65 may indicate local vulnerabilities to hazard events both before and after a disaster occurs – these populations may have mobility needs, uneven access to resources, and limited social networks that makes pre-disaster engagement challenging (FEMA, 2023).

The Borough of Tinton Falls has an estimated population of 19,180. Of these residents, 4.2% are estimated to be under age 5 and 27.1% are over age 65. The Borough experienced an estimated 7.1% population growth over the periods between 2013-2017 and 2018-2022 ACS surveys. With an aging population making up over twenty-seven percent of their total community, Tinton Falls may focus hazard mitigation efforts on those with robust messaging and engagement for older residents, evacuation plans inclusive of populations with mobility issues, and resilient networks for resource accessibility post-disaster. Additionally, a population growth of over seven percent across two five-year survey periods indicates a rate of growth which may present hazard vulnerabilities related to shifts in the built environment.

There are two block groups within Tinton Falls which are identified as potentially vulnerable due to overburden (OBC) according to the State of New Jersey, both meeting criteria for vulnerable Minority populations. No parts of the Borough meet designation criteria for CDRZ or CEJST identification.

Demographics Summary	
<b>Total Population (2018-2022 ACS 5-year Estimates)</b>	19,180
<b>Population Change since 2017</b>	7.1%
<b>Percent of Population Age &lt; 5</b>	4.2%
<b>Percent of Population &gt; 65</b>	27.1%

Source: 2018-2022 ACS 5-Year Estimates, 2013-2017 ACS 5-Year Estimates

## HAZARD IDENTIFICATION

One of the first steps in developing a risk assessment is for participating municipalities to review and prioritize the hazards that can affect them. This was done based on how often a hazard has occurred, how significant effects have been in the past, the difficulty and cost of recovering from such events. Jurisdictions ranked the list of hazards as either high, medium, low, or no concern. The following include the Borough's hazard ranking. The full risk assessment for each hazard is located in Section 4.0.

### Hazard Ranking

High	Medium	Low
<b>Natural Hazards</b>		
Nor'easter	Extreme Temperatures	Lightning
Flood	Extreme Wind	Drought
	Landslide	Dam Failure
	Tornado	Earthquake
	Winter Storm	
	Wildfire	
	Hurricane/ Tropical Storm	
<b>Human-made Hazards</b>		
	Cyber Attack	Civil Unrest
	Terrorism	Economic Disruption
	Pandemic	
	Power Failure	

### Hazard Ranking Explanation

Dam failure remains a low level of concern due to the reservoir in Lincroft. Although the reservoir is technically in Middletown, it borders Tinton Falls.

### Significant Hazard Events Since Last Plan Update

In the south end of town, the intersection of Asbury Avenue and Pine Street/Essex Road used to flood frequently. This issue has since been resolved, which is beneficial as the area contains several important assets, including independent senior living apartments, an assisted living facility, a utilities center, and an animal surgery hospital. Occasionally, the Pine Brook tributary stream that crosses beneath Water Street overtops and floods the road. Shafto Road also experiences occasional flooding.

### Climate Change Impacts on Extent and Magnitude of Hazards

Climate change is expected to significantly impact the risks and hazards faced by the Borough of Tinton Falls. Rising temperatures and shifting precipitation patterns will likely increase the frequency and intensity of extreme weather events such as heavy rainfall, hurricanes, and Nor'easters. This will exacerbate existing flooding issues, particularly in areas adjacent to the Pine Brook tributary stream and Shafto Road, which already experience occasional flooding. The increased flooding risk will necessitate more robust flood management and mitigation strategies to protect residential properties, critical infrastructure, and community lifelines.

Additionally, the borough's varied landscape, which includes portions of Fort Monmouth and Naval Weapons Station Earle, may face heightened risks due to climate change. The urban development and reduction in forested land observed between 2015 and 2020 could further amplify the impact of extreme weather events, as less natural land is available to absorb excess water. Therefore, Tinton Falls will need to prioritize sustainable land use practices and enhance its resilience to climate-related hazards to safeguard its community and infrastructure.

## RISK ASSESSMENT

## National Flood Insurance Program (NFIP) statistics

Tinton Falls Borough	
Initial FIRM Date	12/31/76
Effective FIRM Date	6/15/2022
Number of Policies In-Force:	33
Total Losses:	12
Total Payments:	\$66,504.82
Number of RL Properties:	1
Number of Mitigated RL Properties:	0
RL – Total Losses:	2
RL – Total Paid:	\$17,620.24
Number of SRL Properties:	0
Number of Mitigated SRL Properties:	0
SRL – Total Losses:	0
SRL – Total Paid:	\$0

Source: FEMA Policy and Loss Data, August 2024

### Vulnerability of the Built Environment

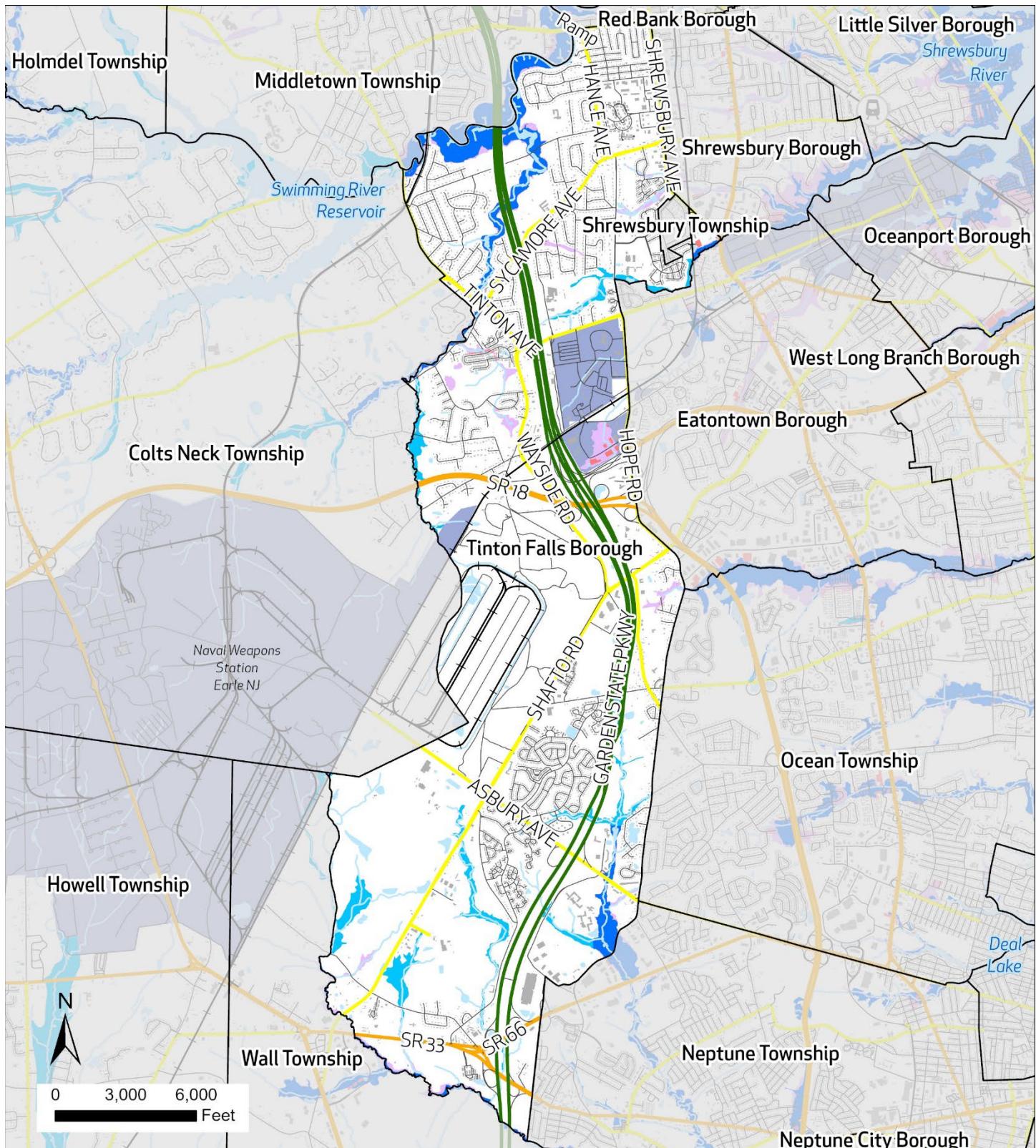
The Special Flood Hazard Area (SFHA) in the Borough of Tinton Falls is primarily located adjacent to the many streams which crisscross the Borough. Approximately 5.6 percent of the total area of Tinton Falls lies within the 1% annual chance flood zone as defined by FEMA. An additional 1.6 percent of the area of the municipality is in the 0.2% annual chance flood zone.

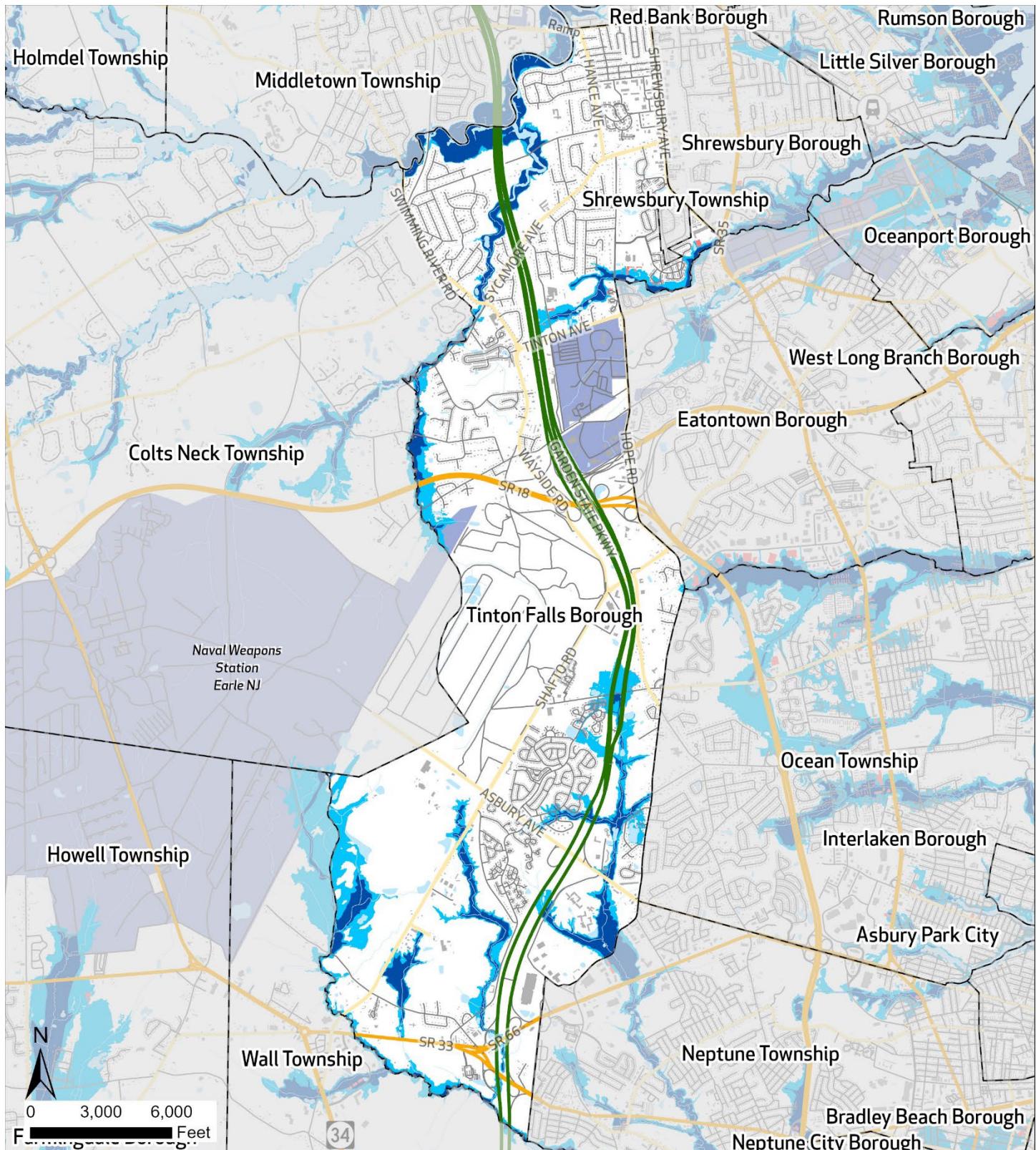
About 80.3 percent of Tinton Falls is considered developed. Of the developed parcels of the town, 2.7 percent fall within the 1% annual chance flood zone and 1.4 percent are within the 0.2% annual chance flood zone. This illustrates that development in the municipality has generally occurred in areas that are less prone to flooding.

	Percentage in the 1% Floodplain	Percentage in the 0.2% Floodplain	5 feet of Sea Level Rise
Developed Parcels	2.7%	1.4%	0.7%
Community Lifelines and Critical Facilities	6.1%	NA	NA
Exposed Land Area	5.6%	1.6%	1.6%

During the planning process, Tinton Falls identified critical facilities which function as community lifelines. These facilities provide the most fundamental services in the community that, when stabilized, enable all other aspects of society to function. The municipality identified 33 total facilities. Of these facilities, two are within the floodplain. These facilities are categorized as Water Systems community lifelines. Examples of Water Systems lifelines include dams or pump stations.

Community Lifeline Type	Number in the 1% Floodplain	Number in the 0.2% Floodplain	Number within 5 feet of Sea Level Rise
Water Systems	2	-	-





## NJ Inland Design Flood Elevation

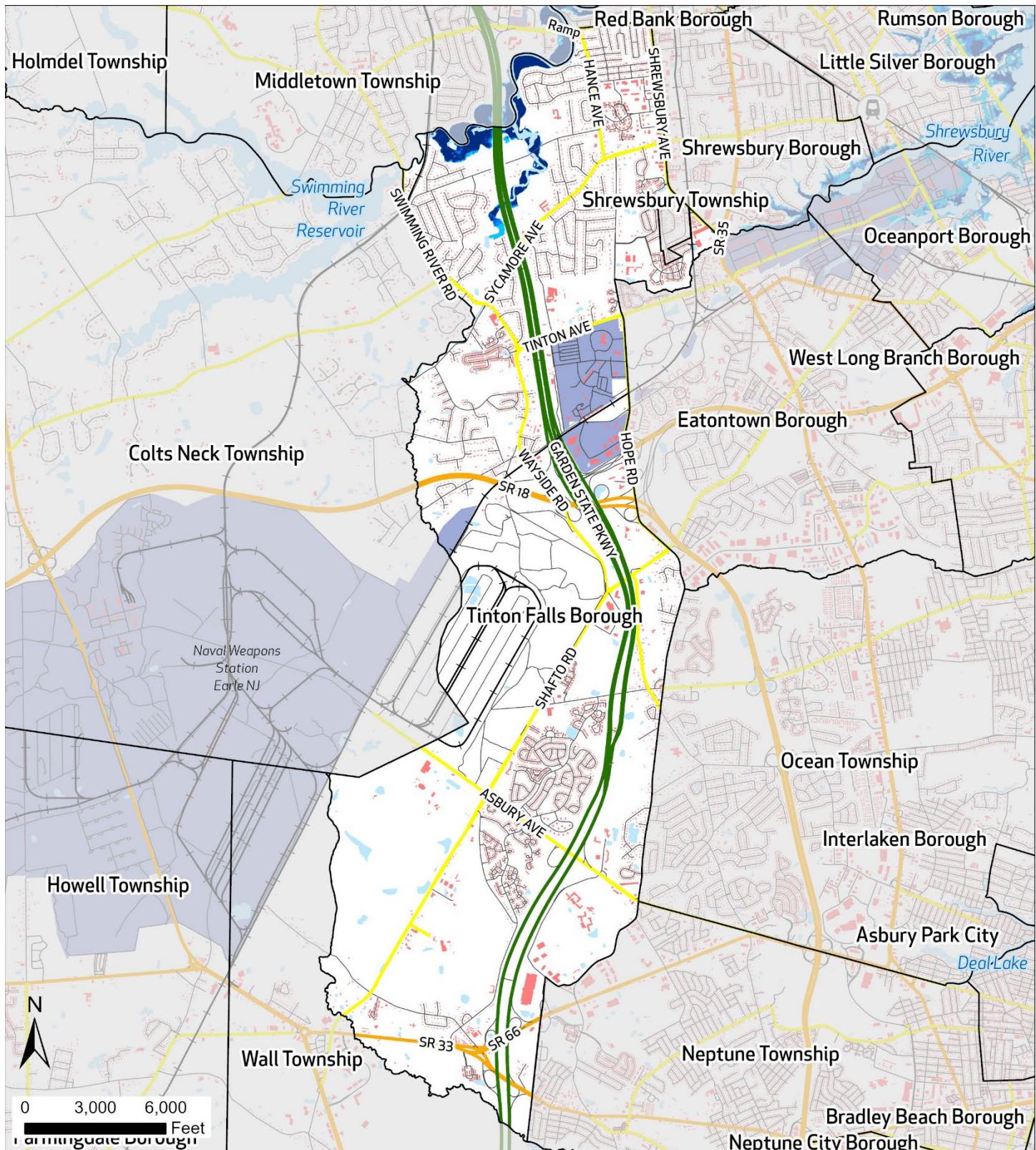
Tinton Falls Borough

**FEMA Flood Zone**  
 Current Base Flood Elevation (1%)  
 NJ Inland Design Flood Elevation  
 FEMA BFE (1%) plus 3 Feet

— Interstate Highways  
— State Routes  
— County Routes  
— Local Roads  
— State Hwy  
— Garden State Parkway  
— Railroad  
— NJTransit Rail Station

— Municipal Boundaries  
 Water  
 Department of Defense Land  
 Building Footprints  
■ Building Footprints within IDFE

Source: FEMA, Rutgers University, NJDEP, NJOIT, NJTransit

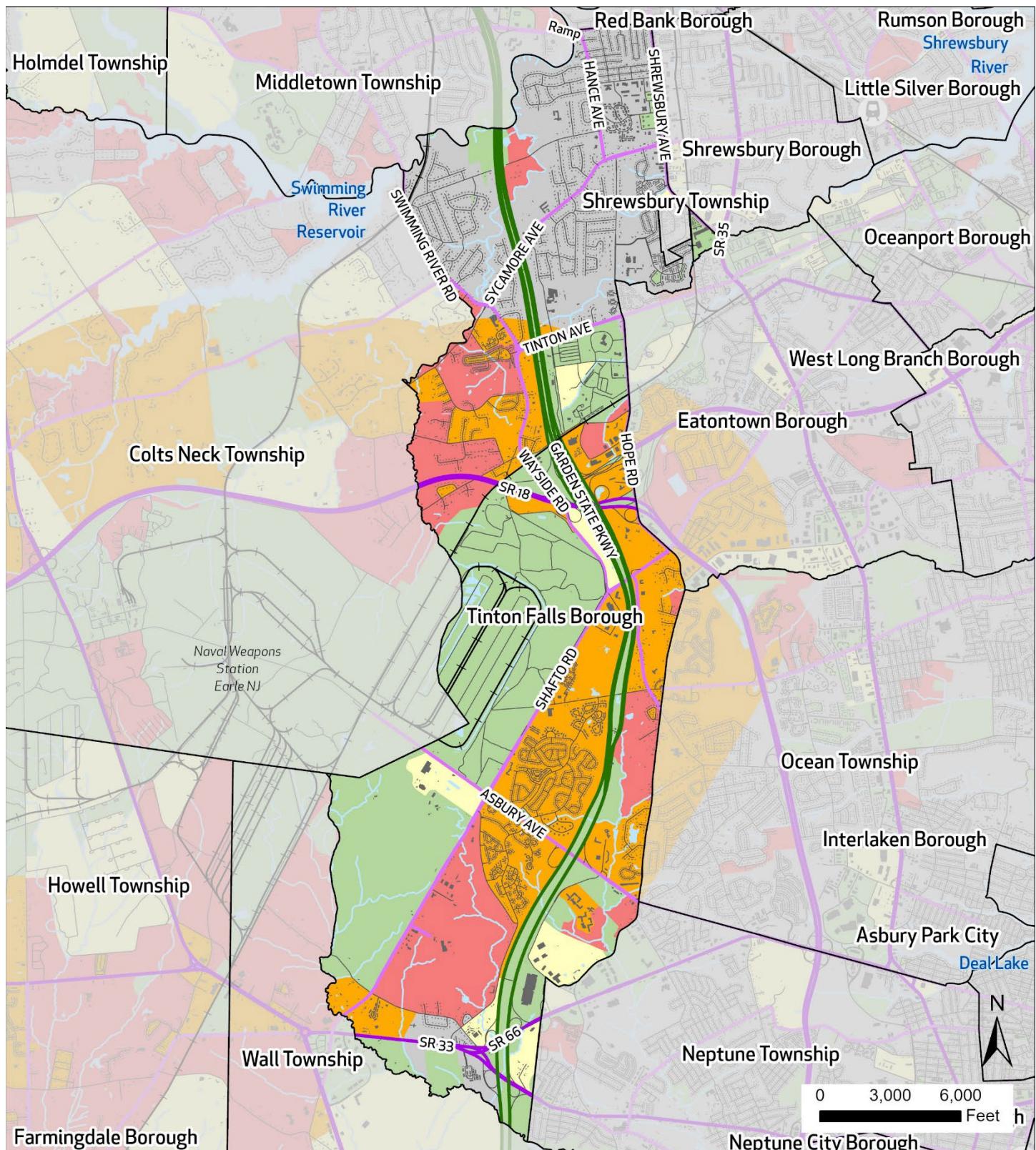


## Permanent Inundation Under Sea Level Rise (SLR) Scenarios

Tinton Falls Borough

- Area Inundated Under 2 Feet SLR
- Area Inundated Under 3 Feet SLR
- Area Inundated Under 5 Feet SLR
- Garden State Parkway
- Interstate Highways
- State Routes
- County Routes
- Local Roads
- Rail Lines

- Municipal Boundaries
- Building Footprint
- Water
- Department of Defense Land



## Wildland Urban Interface (WUI) Classification

Tinton Falls Borough

- Interface
- Intermix
- High or Medium Density Housing
- Low or Very Low Density Housing
- No Housing
- Garden State Parkway
- State Hwy
- Interstate Highways
- State Routes
- County Routes
- Local Roads
- Rail Lines

- Municipal Boundaries
- Building Footprint
- Water

Source: USFS, NJDEP, NJOIT, NJTransit

## CAPABILITY ASSESSMENT

### Planning & Regulatory Capabilities

Tinton Falls Borough has the following additional Planning & Regulatory capabilities:

Plan and Regulation	Yes	No	Date of last update	How does this capability support hazard mitigation?
Master Plan	X		2024	Contains objectives to preserve environmentally sensitive areas
Capital Improvement Plan	X		2024	Identifies capital improvements that may reduce flooding
Local Emergency Operations Plan/Continuity of Operations Plan	X		2022	
Floodplain Development Ordinance	X		2022	Sets design and construction standards to reduce impacts from flooding
Floodplain Management Plan		X		
Stormwater Management Ordinance	X		2024	Sets design and construction standards to reduce stormwater runoff and flooding
Stormwater Management Plan	X		2005	Sets design and construction standards to reduce stormwater runoff and flooding
Watershed Management Plan		X		
Sheltering Plan		X		
Evacuation Plan		X		
Substantial Damage/Improved Structures Response	X			Reviewed during the construction permit process
Repetitive Loss Plan		X		
Disaster Debris Management Plan		X		
Tracking elevation certificates and/or Letter of Map Change	X			Reviewed during the zoning/construction permit process. Documents saved to SDL software program.
Post-Disaster Recovery Plan		X		
Current/recent redevelopment plans or studies	X			Residential and commercial development throughout the Borough. Tinton Falls is not prone to flooding or other natural hazards, especially in the areas of new development.
Community Wildfire Protection Plan		X		
Climate Adaptation Plan		X		
Other Plans that discuss hazard mitigation	X			Next Steps to Compatibility Planning Study, Monmouth County, New Jersey (2022) encourages compatible development within the NWS Earle's Military Influence Area. Among the environmental constraints are natural hazards including wildfire, flooding, and storm surge.
Other ordinance and regulation that mitigate the impacts of natural hazards		X		

### Administrative and Technical Capabilities

Tinton Falls Borough has the following Administrative and Technical capabilities:

Position	Yes	No	Explanation
Floodplain Administrator	X		Thomas Neff Full-time Borough Engineer, Zoning Officer, and Floodplain Administrator PE, PP, CME, CFM
Grant Writer	X		Various in-house full-time employees
Staff trained to support mitigation	X		Borough Administrator, Borough Engineer & OEM Director
Existing mutual aid or technical assistance agreements to support hazard mitigation projects		X	
Non-governmental organizations/other partners	X		Borough Green Team with support from Sustainable Jersey

Position	Yes	No	Explanation
that work with the municipality on mitigation projects			
Organizations that work with socially vulnerable or underserved populations	X		

## Education and Outreach Capabilities

Tinton Falls Borough has the following Education and Outreach capabilities:

Education & Outreach Capability	Yes	No	Explanation
Communicate natural and human-based hazards to the public	X		Emergency notifications sent to residents through Nixle alerts, as well as posts to the Borough website and Facebook page
StormReady	X		
Firewise USA	X		
Severe Weather Awareness Week	X		
Community Rating System (CRS)	X		

## Financial Capabilities

Within the last five years, Tinton Falls Borough has used the following financial capabilities to implement hazard mitigation activities:

Financial Capability	Yes	No	Explanation
FEMA BRIC		X	
FEMA FMA		X	
FEMA Public Assistance		X	
FEMA HMGP		X	
Non-FEMA Federal Funding Programs		X	
Other FEMA resources		X	
NJ Infrastructure Bank		X	
Other state municipal assistance or grant programs		X	
Evaluation process on the prioritization of risk reduction projects against other local activities	X		Review the cost vs benefit of various projects against each other
Other ongoing efforts to build additional financial capabilities		X	

## Additional Capability Assessment Information:

- Sustainable Jersey Participation Status: Bronze

## MITIGATION STRATEGY

### Overview and Progress Since Last Plan Update

The Borough of Tinton Falls is committed to doing all we can to mitigate hazards before they happen to create a more resilient community that reduces the threat of loss of life and property due to both natural and manmade events. Since the last plan update, we have completed various stormwater and flooding improvement projects, as well as nearing the completion of security and safety upgrades at the Municipal Complex. We have also obtained Bronze Level with Sustainable Jersey. Over the next five years, we plan to continue to address areas with chronic flooding and complete the security and safety upgrades at the Municipal Complex and other Borough-owned properties. We also plan to take a more proactive approach to community awareness and education through increased social media posts.

### Completed or Removed Actions

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
-	-	-	-	-	-	-	-	-	-	There are no completed or withdrawn actions since the last plan update.

### New and Ongoing Actions

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
Action 49-1	Continue to Enforce the Borough's Stormwater Management Plan	Enforce the Stormwater Management Plan that includes subdivision regulations to control runoff; both for flood reduction and to minimize saturated soils on steep slopes that can cause landslides.	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	Engineering	FEMA Hazard Mitigation Grant, Borough funding	\$25,000	5 + years	Ongoing	This is an ongoing action that will continue in perpetuity
Action 49-2	Create a Mitigation Outreach Program and Community Response Team Program	Create mitigation outreach program to prepare residents for disasters. Support and fund Community Response Team programs that also include mitigation component.	All Hazards	Low	Administration; OEM	Municipal budget	\$15,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-3	Create a Program for Routine Stormwater Maintenance and Seek Financial Assistance to Clean Stream Segments	Conduct a routine maintenance program and seek financial assistance to clean out stream segments with heavy sediment deposits. Develop specific mitigation solutions for flood-prone roadways and intersections.	Nor'easter, Hurricane and Tropical Storm	Medium	Public Works, Engineering, County Mosquito Commission, County	Borough funding	\$200,000	1 year	Ongoing	DPW conducts stormwater facility inspections regularly per NJDEP requirements. Underdrain systems are typically installed where needed with bi-annual road improvement programs. This work will continue.

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
		Implement identified stormwater recharge, rate or volume projects to decrease flash in streams during and after storms. Create plans for underdrain systems to collect sump pump and/or roof leader discharges.								
Action 49-4	Limit Development along Steep Slopes Through a Steep Slope Ordinance	Locally identify and map specific areas of potential slope failure and limit future development in these areas. Then adopt a steep slope ordinance to regulate development in these higher risk areas.	Landslide	Medium	Administration, Engineering, Planning	Borough funding	\$200,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-5	Create a Wildfire Risk Map	Develop mapping of wild and urban interface areas. Review local EOPs for possible wildfire components regarding fire rescue, alert warning and communications. Initiate public outreach program for homeowners to reduce the possibility of damage and losses due to wildfires. Mitigation for streets.	Wildfire	Medium	Administration, Police/Fire/EMS, Planning	FEMA HMA, Borough funding	\$5,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-6	Purchase NOAA Weather Radios for Critical Facilities	Promote use of or purchase NOAA weather radios for critical Borough facilities.	All Hazards	Low	Public Works, OEM	Borough funding	\$3,000	1 year	Ongoing	This action item will be considered when funding and resources become available. In the meantime, the Borough subscribes to WeatherWorks for accurate weather forecasting.
Action 49-7	Develop Educational Programs on Winter Hazards	Educate residents about driving in winter storms and handling winter-related health effects.	Nor'easter, Winter Storm	Low	Administration, OEM	Borough funding	\$10,000	1 year	Ongoing	This action item will be considered when funding and resources become available

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
Action 49-8	Enforce Landscaping Practices that Reduce Hazards from Winter Storms	Plant ice and windstorm resistant trees and use landscaping practices to reduce related hazards.	Winter Storm	Low	Public Works	Borough funding	\$50,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-9	Purchase and Install Generators for Critical Facilities	Purchase and install permanent emergency natural gas-fired generators capable of powering sanitary sewer pump stations and emergency generators capable of powering traffic signals at key intersections.	All Hazards	High	Public Works, Engineering, and County Engineering	FEMA Hazard Mitigation Grant, Borough funding	\$500,000	1 year	Ongoing	This is an ongoing action that is about 85% completed. Each generator costs about \$150,000. It is funded by capital funds.
Action 49-10	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties, Especially along Pine Brook	Elevation and/or Acquisition of Flood-prone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Mayor and Council; Monmouth County	FEMA HMA	\$500,000	2 years	Ongoing	The Borough is looking to work with Monmouth County to increase the size of the culvert along the Pine Brook tributary beneath Water Street to alleviate flooding issues.

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
Action 49-11	Upgrade Critical Facilities to Serve as a Comfort Station and Temporary Area of Refuge During or After a Disaster	Upgrade a portion of a Borough or School building to serve as a comfort station and temporary area of refuge during or after natural disasters where power is out for an extended period of time. Install a permanent generator, obtain or upgrade internet/TV service, construct a Wi-Fi network within the building, install charging stations for cell phones, tablets, laptops, etc., obtain a large flat panel TV or projector to display updated news broadcasts, upgrade HVAC equipment as necessary.	Flood, Nor'easter, Hurricane and Tropical Storm, Winter Storm	Medium	Administration, OEM, Public Works	Borough Funding	\$100,000	2 years	Ongoing	This action item will be considered when funding and resources become available
Action 49-12	Target Harden the Municipal Complex (Borough Hall, Police Headquarters, DWP Facility) by Installing Surveillance Cameras, an Access Control System, Security Personnel, and/or Bulletproof Glass	Install security cameras throughout the Municipal Complex to monitor the safety of all employees, residents, and visitors, as well as the security of the Borough's Police, Emergency Management, and Public Works equipment that is needed in times of emergencies and disasters.	Terrorism, Cyber Attack	Medium	Administration, Police, OEM	Homeland Security grants, Borough funding	\$50,000	1 year	Ongoing	This project is nearly complete.
Action 49-13	Implement Security Upgrade Measures at Borough Hall	The public currently has uncontrolled access throughout nearly the entire building of Borough Hall. In addition, the employees who interact with the public have very little in the way of separation and protection. This project would propose numerous security upgrades such as security	Terrorism, Cyber Attack	High	Administration, Police, OEM	Homeland Security grants, Borough funding	\$300,000	2 years	Ongoing	This project is currently underway, with electronic door locks and access control upgrades being completed.

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
		guard/reception area with a check-in/check-out policy, electronic door locks added to all necessary doors, relocating doors and access points, panic buttons, and renovating the counter areas to include bulletproof transaction windows.								
Action 49-14	Develop a Civil Unrest Response Plan	Action plan to address a coordinated public safety response to civil unrest should it occur within the Borough. The plan will address the appropriate response levels of all public safety entities including Police, Fire, and EMS.	Terrorism, Cyber Attack	Medium	Administration, Police, OEM	Homeland Security grants, Borough funding	\$20,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-15	Develop a Cyber Attack Response Implementation Plan	Update emergency response plans to address, mitigate, and recover from a potential cyber-attack affecting the operation of Borough activities.	Terrorism, Cyber Attack	Medium	Administration	Homeland Security grants, Borough funding	\$20,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-16	Develop an Action Plan for a Pandemic Event	Emergency Response Plan to address a pandemic event.	Terrorism, Cyber Attack	Medium	Administration, Police, OEM, County Health Officer	Borough Funding	\$20,000	1 year	Ongoing	This action item will be considered when funding and resources become available
Action 49-17	Construct an OEM Vehicle Garage	The Borough's Office of Emergency Management owns and operates a large, high-tech emergency response vehicle that is used during a multitude of emergency situations such as vehicular accidents, fires, flooding, power outages, human-based hazards, and other events. The Borough currently does not have a garage or other form of shelter for this vehicle. Based on the high-tech and electronic features of this vehicle, it	All Hazards	Medium	Administration, OEM	Borough funding	\$150,000	1 year	Ongoing	The Borough is in the process of renovating a former EMS building to be used for OEM headquarters and storage of OEM vehicles and equipment.

Action	Name	Description	Hazards Addressed	Priority	Responsible Party	Potential Funding	Cost Estimate	Time-line	Action Status	Notes
		should be stored in an indoor environment where its features will be protected from degradation as a result of the outdoor elements. A garage should be constructed on the Municipal Complex property.								
Action 49-18	Construct Flood Measure (e.g. floodwalls or berms) along Pine Brook and Expand the Culvert under Water Street (S-12A)	Use minor structural projects that are smaller and more localized (e.g., floodwalls or small berms) along Pine Brook, which causes repetitive flooding.	Flood, Nor'easter, Hurricane and Tropical Storm	High	Borough Engineering, Monmouth County	FEMA HMA	\$250,000	3 years	Ongoing	The Borough is in the process of installing new curb in areas to prevent runoff and erosion along the stream slopes. The Borough is also looking to work with Monmouth County to increase the size of the culvert along the Pine Brook tributary beneath Water Street to alleviate flooding issues.