

## *Appendix Vol I.49 Tinton Falls Borough*

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



## NFIP Statistics

**60** *Polices In-force*

**11** *Total Losses*

**\$66,505** *Total Payments*

**1** *Number of RL Properties*

**0** *Number Mitigated  
RL Properties*

**2** *RL - Total Losses*

**\$17,620** *RL - Total Paid*

**0** *Number of SRL Properties*

**0** *Number Mitigated SRL  
Properties*

**0** *SRL - Total Losses*

**\$0** *SRL - Total Paid*

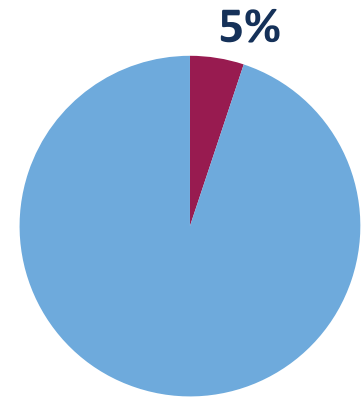


## Critical Facilities

**46** *Critical Facilities*

**14** *Critical Infrastructure*

**74** *Historic & Cultural Resources*



Percent Land Area Within SFHA

**18**

*Total Mitigation  
Actions*

**2**



*Education and Awareness Programs*

**8**



*Structure and Infrastructure Projects*

**7**



*Local Plans and Regulations*

**1**



*Natural Systems Protection*



**6** *SV Population At Risk (2017)*

**915** *Population at Risk (2017)*

Tinton Falls, Borough of					Monmouth County HMP Mitigation Action Summary							
Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
49_01	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.	Administrative	Local Plans and Regulations	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	Low	Engineering	FEMA Hazard Mitigation Grant, Borough funding	\$25,000.00	5 + years	Ongoing
49_02	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.	Administrative	Education and Awareness Programs	All Hazards	Low	Low	Administration; OEM	Municipal budget	\$15,000.00	1 year	Ongoing
49_03	Create a Program for Routine Stormwater Maintenance Program 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. 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.	Maintenance/Response/Recovery	Local Plans and Regulations	Nor'easter, Hurricane and Tropical Storm	Medium	Low	Public Works, Engineering, County Mosquito Commission, County	Borough funding	\$200,000.00	1 year	Ongoing
49_04	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.	Administrative	Local Plans and Regulations	Landslide	Medium	Medium	Administration, Engineering, Planning	Borough funding	\$200,000.00	1 year	Ongoing
49_05	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.	Administrative	Local Plans and Regulations	Wildfire	Medium	Low	Administration, Police/Fire/EMS, Planning	FEMA HMA, Borough funding	\$5,000.00	1 year	Ongoing
49_06	Purchase NOAA Weather Radios for Critical Facilities	Promote use of or purchase NOAA weather radios for critical Borough facilities.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Low	Public Works, OEM	Borough funding	\$3,000.00	1 year	Ongoing
49_07	Develop Educational Programs on Winter Hazards	Educate residents about driving in winter storms and handling winter-related health effects.	Administrative	Education and Awareness Programs	Nor'easter, Winter Storm	Low	Low	Administration, OEM	Borough funding	\$10,000.00	1 year	Ongoing
49_08	Enforce Landscaping Practices that Reduce Hazards from Winter Storms	Plant ice and windstorm resistant trees and use landscaping practices to reduce related hazards.	Administrative	Natural Systems Protection	Winter Storm	Low	Low	Public Works	Borough funding	\$50,000.00	1 year	Ongoing

Tinton Falls, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
49_09	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.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	All Hazards	High	Low	Public Works, Engineering, and County Engineering	FEMA Hazard Mitigation Grant, Borough funding	\$500,000.00	1 year	Ongoing
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.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Mayor and Council	FEMA HMA	\$500,000.00	2 years	Ongoing
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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Medium	Low	Administration, OEM, Public Works	Borough Funding	\$100,000.00	2 years	New
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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism, Cyber Attack	Medium	Low	Administration, Police, OEM	Homeland Security grants, Borough funding	\$50,000.00	1 year	New
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 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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism, Cyber Attack	High	Low	Administration, Police, OEM	Homeland Security grants, Borough funding	\$300,000.00	2 years	New
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.	Administrative	Local Plans and Regulations	Terrorism, Cyber Attack	Medium	Low	Administration, Police, OEM	Homeland Security grants, Borough funding	\$20,000.00	1 year	New

Tinton Falls, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
49_15	Develop a Cyber Attack Response Implementation	Update emergency response plans to address, mitigate, and recover from a potential cyber-attack affecting the operation of Borough activities.	Administrative	Local Plans and Regulations	Terrorism, Cyber Attack	Medium	Low	Administration	Homeland Security grants, Borough funding	\$20,000.00	1 year	New
49_16	Develop an Action Plan for a Pandemic Event	Emergency Response Plan to address a pandemic event.	Administrative	Local Plans and Regulations	Terrorism, Cyber Attack	Medium	Low	Administration, Police, OEM, County Health Officer	Borough Funding	\$20,000.00	1 year	New
49_17	Construct a 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 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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Low	Administration, OEM	Borough funding	\$150,000.00	1 year	New
49_18	Construct Flood Measure (e.g. floodwalls or berms) along Pine Brook	Use minor structural projects that are smaller and more localized (e.g., floodwalls or small berms) along Pine Book, which causes repetitive flooding.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter	High	Medium	Borough Engineering	FEMA HMA		3 years	New

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_01

Tinton Falls, Borough of

## Describing the Action

Action Name:	Continue to Enforce the Borough's Stormwater Management Plan
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 4, 5, 6
Risk Reduction:	Tinton Falls has a fairly steady flow of new development and its population is increasing, so promoting disaster resistant development will be key to achieving sustainability. Enforcement of maintenance for stormwater management basins and facilities is crucial to ensuring proper operation and long-term success.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability to implement this action, as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Economic development and environmental quality
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$25,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Engineering
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing documents.
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Plan is complete; requires ongoing enforcement.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_02

Tinton Falls, Borough of

## Describing the Action

Action Name:	Create a Mitigation Outreach Program and Community Response Team Program
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Create mitigation outreach program to prepare residents for disasters. Support and fund Community Response Team programs that also include mitigation component.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	2, 3, 4, 5
Risk Reduction:	Residents are unprepared for severe storms and often face hazardous conditions during and after these events. Health and safety impacts due to damages from the storm and lack of essential utilities are a concern. Tinton Falls' population is projected to grow fairly significantly through 2040. By the year 2040, it is projected to have a population increase of 35.4% over 2010 values.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal state and local regulations.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability implement this action, as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$15,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Administration; OEM
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing documents.
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is searching for funding opportunities.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_03

Tinton Falls, Borough of

## Describing the Action

Action Name:	Create a Program for Routine Stormwater Maintenance Program and Seek Financial Assistance to Clean Stream Segments
Action Category:	Maintenance/Response/Recovery
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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. 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.

## Evaluating the Action

Hazard(s) Addressed:	Nor'easter, Hurricane and Tropical Storm
Goals:	2, 5, 6
Risk Reduction:	Areas of heavy sedimentation are noted along some watercourses (Whale Pond Brook, Jumping Brook). Flood prone roadways/intersections under State jurisdiction, including County Highway 13A, County Highway 16, and Hope Road. Flash flooding conditions in area streams during/after storms, in addition to sump pump backups and flooding of basements. Sea Level Rise and climate change will contribute to more frequent and severe flooding.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal state and local regulations.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$200,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Public Works, Engineering, County Mosquito Commission, County Engineering, NJDOT
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing documents
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_04

Tinton Falls, Borough of

## Describing the Action

Action Name:	Limit Development along Steep Slopes Through a Steep Slope Ordinance
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Landslide
Goals:	1, 2, 3, 5, 6
Risk Reduction:	Areas of the Borough are susceptible to slope failure and potential landslides which can lead to severe property damage and loss of life. These areas include but are not limited to flows along the Pine Brook repeatedly undercutting portions of Water Street, causing slumping of the street into Pine Brook and Jumping Brook.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no potential environmental impacts caused by this project.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Economic development and environmental quality
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$200,000.00
Priority:	Medium
Scale of Ease of Implementation:	Medium
Responsible Party:	Administration, Engineering, Planning
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_05

Tinton Falls, Borough of

## Describing the Action

Action Name:	Create a Wildfire Risk Map
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Wildfire Mitigation
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Wildfire
Goals:	1 ,2, 3, 4, 5, 6
Risk Reduction:	The NJFFS has mapped several areas of very high to extreme wildfire risk; some of these are close to key access roads and developed areas. Eight critical facilities are in mapped wildfire risk areas (4 child care facilities and 3 senior care facilities) are located in low or moderate risk areas. The Tinton Falls Senior Residence is in an area of mapped high/extreme risk.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal state and local regulations.
Social:	There are no negative social impacts from this project on the community; it is beneficial to educate residents of a wildfire.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$5,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, Police/Fire/EMS, Planning
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory document.
Likely Funding Source(s):	FEMA HMA, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_06

Tinton Falls, Borough of

## Describing the Action

Action Name:	Purchase NOAA Weather Radios for Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Promote use of or purchase NOAA weather radios for critical Borough facilities.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	4, 5, 7
Risk Reduction:	Various weather events leave the Borough vulnerable to potential threats. Having adequate warning of incoming events will allow for proper planning in potential hazardous weather situations.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by council and the mayor.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no potential environmental impacts caused by this project.
Social:	There are no negative social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$3,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Public Works, OEM
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is searching for funding opportunities.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_07

Tinton Falls, Borough of

## Describing the Action

Action Name:	Develop Educational Programs on Winter Hazards
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Educate residents about driving in winter storms and handling winter-related health effects.

## Evaluating the Action

Hazard(s) Addressed:	Nor'easter, Winter Storm
Goals:	1, 2, 3, 4, 5, 6, 7
Risk Reduction:	Power outages, icy and snow-covered roads, and downed trees during storms create dangerous road conditions. Health and safety effects due to cold weather conditions.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by council and the mayor.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no potential environmental impacts caused by this project.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$10,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, OEM
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is searching for funding opportunities.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_08

Tinton Falls, Borough of

## Describing the Action

Action Name:	Enforce Landscaping Practices that Reduce Hazards from Winter Storms
Action Category:	Administrative
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Plant ice and windstorm resistant trees and use landscaping practices to reduce related hazards.

## Evaluating the Action

Hazard(s) Addressed:	Winter Storm
Goals:	3, 5, 6
Risk Reduction:	Downed trees and powerlines are historically an issue during extreme wind events including severe storms such as hurricanes and tropical storm, nor'easters, and winter storms.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations.
Social:	There are no negative social effects going forward with this project.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$50,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Public Works
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is searching for funding opportunities.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_09

Tinton Falls, Borough of

## Describing the Action

Action Name:	Purchase and Install Generators for Critical Facilities
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	Power outages during storms create dangerous conditions at key intersections (Hope Rd & Sycamore Ave, Sycamore Ave & Shrewsbury Ave, Asbury Ave & Essex Rd, Asbury Ave & Shafto Rd). Sanitary sewer pump stations lose power during severe storms, which can cause a public health concern.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the mayor and council.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations.
Social:	There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Council and the mayor
Other Community Objectives:	Capital improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	High
Scale of Ease of Implementation:	Low
Responsible Party:	Public Works, Engineering, and County Engineering
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; partially completed at selected locations. The Borough has installed generators at the Heritage Blvd. and Hance Avenue pump stations and at the Borough Hall Complex.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_10

Tinton Falls, Borough of

## Describing the Action

Action Name:	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
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	A number of residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea Level Rise and climate change will contribute to more frequent and severe flooding and surge events.
Technical:	Elevation and acquisition are both technically feasible project types.
Political:	Our political leadership supports this type of project.
Legal:	While the municipality does not own the structures in question, we fully support the homeowners in moving forward.
Environmental:	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous waste are no longer introduced into floodwaters.
Social:	No particular social group in our community is likely to be disproportionately impacted by this project; this would be reevaluated as particular interested homeowners come forward.
Administrative Capability:	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project.
Local Champion:	Affected homeowners, elected officials
Other Community Objectives:	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements.
STAPLEE Evaluation:	10

## Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Mayor and Council
Local Planning Mechanism:	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough currently has one RL/SRL property and will work with the property owner on mitigation options.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_11

Tinton Falls, Borough of

## Describing the Action

Action Name:	Upgrade Critical Facilities to Serve as a Comfort Station and Temporary Area of Refuge During or After a Disaster
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	1, 3, 4, 5, 7
Risk Reduction:	During and after many storms, there can be extended power outages. A comfort station would provide a location for residents to come and charge their cell phones and other devices so they can stay in touch with family and friends. It would also provide a destination where they could obtain up to date information from Borough officials and local news broadcasts. The location would also provide relief from the heat or cold.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations.
Social:	There are no negative social effects going forward with this project.
Administrative Capability:	Our municipality has the administrative capabilities to implement and maintain this project.
Local Champion:	Mayor and Council
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, OEM, Public Works
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	Borough Funding
Timeline:	2 years
Action Status:	New

Notes:



# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_12

Tinton Falls, Borough of

## Describing the Action

Action Name:	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
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism, Cyber Attack
Goals:	1, 2, 3, 4, 5, 7
Risk Reduction:	In today's world, security cameras are crucial for overseeing the Borough's critical facilities, employees, and residents visiting the Municipal Complex. The cameras will provide increased visibility and awareness for human-based hazards.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project, and it will comply with all federal, state, and local regulations.
Social:	There are no negative social effects going forward with this project.
Administrative Capability:	Our municipality has the administrative capabilities to implement and maintain this project.
Local Champion:	Mayor and Council
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$50,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, Police, OEM
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	Homeland Security grants, Borough funding
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_13

Tinton Falls, Borough of

## Describing the Action

Action Name:	Implement Security Upgrade Measures at Borough Hall
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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 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.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism, Cyber Attack
Goals:	1, 2, 3, 4, 5, 7
Risk Reduction:	The safety of Borough employees and the many visitors to Borough Hall each day is a concern based on the current layout and design of the building. The proposed improvements would provide much needed security improvements to protect the lives of everyone who works or conducts business in Borough Hall.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project, and it will comply with all federal, state, and local regulations.
Social:	No particular social group in our community is likely to be disproportionately impacted by this project; this would be reevaluated as particular interested homeowners come forward.
Administrative Capability:	Our municipality has the administrative capabilities to implement and maintain this project.
Local Champion:	Mayor and Council
Other Community Objectives:	Capital Improvements.
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$300,000.00
Priority:	High
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, Police, OEM
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Homeland Security grants, Borough funding
Timeline:	2 years
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_14

Tinton Falls, Borough of

## Describing the Action

Action Name:	Develop a Civil Unrest Response Plan
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism, Cyber Attack
Goals:	1, 2, 3, 4, 5, 7
Risk Reduction:	To reduce the potential loss of life and property damage in the event of a civil uprising event. In preparation, Police vehicles and equipment, in addition to other public safety apparatus, will be dispatched accordingly at strategic places throughout the Borough.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project, and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Police, OEM
Other Community Objectives:	Local Plans and Regulations
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$20,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, Police, OEM
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Likely Funding Source(s):	Homeland Security grants, Borough funding
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_15

Tinton Falls, Borough of

## Describing the Action

Action Name:	Develop a Cyber Attack Response Implementation
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Update emergency response plans to address, mitigate, and recover from a potential cyber-attack affecting the operation of Borough activities.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism, Cyber Attack
Goals:	2, 3, 4, 5, 7
Risk Reduction:	As a result of the numerous occurrences of cyber-attacks and threats, the Borough should be prepared to prevent or avoid any potential hackers from gaining access to their computer systems. In addition, by maintaining the integrity of the Borough's computers and systems, this reduces the chances of compromise and an imminent threat to life, health, and public safety.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no potential environmental impacts caused by this project, and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from implementing this project.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Mayor and Council
Other Community Objectives:	Local Plans and Regulations
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$20,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Likely Funding Source(s):	Homeland Security grants, Borough funding
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_16

Tinton Falls, Borough of

## Describing the Action

Action Name:	Develop an Action Plan for a Pandemic Event
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Emergency Response Plan to address a pandemic event.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism, Cyber Attack
Goals:	1, 3, 4, 5, 7
Risk Reduction:	To reduce and/or prevent the loss of life and spread of potential communicable diseases or contamination by harmful substances.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project, and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability to implement this project.
Local Champion:	Mayor and Council
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$20,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, Police, OEM, County Health Officer
Local Planning Mechanism:	Hazard Mitigation Plan, local plans and regulations.
Likely Funding Source(s):	Borough Funding
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_17

Tinton Falls, Borough of

## Describing the Action

Action Name:	Construct a OEM Vehicle Garage
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	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 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.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 2, 3, 5, 7
Risk Reduction:	The Borough OEM staff must be able to properly respond to and assist with various storm events and other hazards. Without a proper shelter for the response vehicle, the vehicle is more likely to be in a state of disrepair when needed most.
Technical:	This mitigation is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	The community does have the legal authority to implement this project.
Environmental:	There are no negative environmental impacts cause by this project, and it will comply with all federal, state, and local regulations.
Social:	No particular social group in our community is likely to be disproportionately impacted by this project.
Administrative Capability:	Our municipality has the administrative capabilities to implement and maintain this project.
Local Champion:	Mayor and Council
Other Community Objectives:	Capital Improvements.
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Administration, OEM
Local Planning Mechanism:	Capital Improvements
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 49\_18

Tinton Falls, Borough of

## Describing the Action

Action Name:	Construct Flood Measure (e.g. floodwalls or berms) along Pine Brook
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Use minor structural projects that are smaller and more localized (e.g., floodwalls or small berms) along Pine Book, which causes repetitive flooding.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter
Goals:	2, 3
Risk Reduction:	Pine Brook causes repetitive flooding in Tinton Falls.
Technical:	Technically feasible.
Political:	No adverse political implications.
Legal:	No legal impediments however may want to coordinate with Colts Neck as this brook in on the boundary of the two municipalities.
Environmental:	Minor affects to the envioronment.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	9

## Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Borough Engineering
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	3 years
Action Status:	New
Notes:	

# CAPABILITY ASSESSMENT WORKSHEET

Name: Thomas Neff

Title: Group Manager

Jurisdiction: Tinton Falls Borough

Organization: T&M Associates

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

## Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	Master Plan adopted May 9, 2007 No No No
Capital Improvements Plan	Yes	Updated yearly Yes Yes Yes
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	June 11, 2014 Yes, the plan discusses various hazards No No
Continuity of Operations Plan	No	
Post-Disaster Recovery Plan	Yes	
Transportation Plan	No	
Stormwater Management Plan	Yes	April 1, 2005 The plan addresses stormwater related hazards. No No





## CAPABILITY ASSESSMENT WORKSHEET

Community Wildfire Protection Plan	No	
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	NJ FRAMES Monmouth County Joint Land Use Study (2017)
<b>Building Code, Permitting, and Inspections</b>	<b>Yes/No</b>	<b>Are codes adequately enforced?</b>
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	Yes
<b>Land Use Planning and Ordinances</b>	<b>Yes/No</b>	<b>Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?</b>
Zoning Ordinance	Yes	Yes Yes
Subdivision Ordinance	Yes	Stormwater Management Control Ordinance, Yes Yes
Floodplain Ordinance	Yes	Yes Yes
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	The Borough has a stormwater management ordinance that is enforced for all new major development
Flood Insurance Rate Maps	Yes	Yes Yes
Acquisition of Land for Open Space and Public Recreation Uses	Yes	The Borough regularly purchases open space land when possible to preserve open space and natural habitats
Post-Disaster Recovery Ordinance	Yes	



## CAPABILITY ASSESSMENT WORKSHEET

Real Estate Disclose Ordinance	Yes	Yes Yes
Other (ie. Special Purposes Ordinance)		
<b>How can the above capabilities be expanded and improved to reduce risk?</b>		
It is recommended that the Master Plan be updated to incorporate various natural and man-made hazards. The yearly Capital Improvement Plan should receive a renewed focus on risk reduction projects throughout the Borough as opposed to just the standard road, sewer, and park projects. The Borough should consider adopting a Post-Disaster Recovery Plan/Ordinance and a Community Wildfire Protection Plan.		

### Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	The Borough has a well established Planning Board and Professional Planner capable of planning and implementing mitigation actions. Coordination with other Borough departments is successful.
Mitigation Planning Committee	No	
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	The Borough Department of Public Works regularly inspects, cleans, and maintains drainage inlets, basins, and outfalls to ensure proper operations. JCP&L is responsible for trimming trees around overhead utility lines.
Mutual Aid Agreements	Yes	The Borough can utilize Mutual Aid Agreements with Monmouth County for many services that the Borough is not capable of completing with in-house staff.
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes	Full time Yes Yes Yes
Floodplain Administrator	Yes	Part time, T&M Associates Yes Yes Yes



## CAPABILITY ASSESSMENT WORKSHEET

Emergency Manager	Yes	Full time Yes Yes Yes
Community Planner	Yes	Part time, Leon S. Avakian, Inc. Yes Yes Yes
Civil Engineer	Yes	Part time, T&M Associates Yes Yes Yes
Surveyor	Yes	Part time, T&M Associates Yes Yes Yes
GIS Coordinator	Yes	Part time, T&M Associates Yes Yes Yes
Scientists familiar with the hazards of the community	Yes	Part time, T&M Associates Yes Yes Yes
Other		
<b>Technical</b>	<b>Yes/No</b>	<b>Describe capability Has capability been used to access/mitigate risk in the past?</b>
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	The Borough recently switched to Hyper-Reach for its warning system/reverse 911 program to notify residents of upcoming or current disasters. Residents can be notified via land line, cell phone, email, or text.
Hazard Data and Information	Yes	The Borough has adequate staff through its own employees and consultants to receive and interpret hazard data and information as it becomes available and to utilize this information for an appropriate response.
Grant Writing	Yes	The Borough typically utilizes its consultant, T&M Associates, for all necessary grant applications. T&M is more than capable of preparing the necessary information, plans, calculations, and estimates for any grant application.
Hazus Analysis	Yes	The Borough OEM staff and its consultants are capable of utilizing Hazus as an aid for hazard mitigation planning.
Other		
<b>How can the above capabilities be expanded and improved to reduce risk?</b>		



## CAPABILITY ASSESSMENT WORKSHEET

The Borough of Tinton Falls has sufficient professionals to provide the technical and regulatory capabilities, as well as strong overall administration personnel capable of implementing hazard mitigation strategies. The Borough's Mayor and Council Members are particularly accepting of hazard mitigation proposals. The gaps identified in the Borough's capabilities to achieve mitigation actions and goals include; overall technical capability and fiscal capability. Technical capability to implement strategy is predominately contingent on fiscal capabilities. Allocating finances to mitigation projects are challenging at the Municipal level. There is typically a significant cost associated with hazard mitigation projects. In addition to physical construction costs, many hazard mitigation projects are complex in nature and require extensive permits from NJDEP, USACE, SESC, etc. or may require property and right-of-way acquisition, all of which drive up soft costs. Even applications to obtain hazard mitigation grant funds is a costly endeavor. Ways of bridging gaps include seeking grant funding, shared service agreements with other municipalities, public-private partnerships, and technical assistance programs from other levels of government.



## CAPABILITY ASSESSMENT WORKSHEET

### Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Yes, Capital Improvement Funding has been used to fund various activities such as drainage improvements (new drainage systems, outfall repairs, inlet upgrades, etc.). Yes
Authority to Levy Taxes for Specific Purposes	Yes	This resource has not been used in the past for mitigation activities but could be considered if necessary.
Fees for Water, Sewer, Gas, or Electric Services	Yes	Yes, Sewer fees are collected and have been used for improvements such as emergency generators for pump stations. Yes
Impact Fees for New Development	Yes	This resource has not been used in the past for mitigation activities but could be considered if necessary.
Stormwater Utility Fee	No	
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	Yes, CDBG funds have been used in the past for ADA and roadway improvements. Yes, grant funds could potentially be used for future mitigation actions if located in a DTN Zone and approved by the County.
Other Federal Funding Programs	Yes	The Borough can apply for Federal grants when available and use them for mitigation actions if eligible.
State Funding Programs	Yes	The Borough can apply for State grants when available and use them for mitigation actions if eligible.
Other (e.g., withhold spending in hazard-prone areas)	Yes	The Borough can withhold spending in hazard-prone areas, Incur Debt through General Obligation Funds and Incur Debt through Special Tax and Revenue Bonds
<b>How can these capabilities be expanded and improved to reduce risk?</b>  The Borough should consider expanding its Capital Improvements Projects to include additional mitigation projects. Sewer fees should be considered to provide emergency generators for those remaining pump stations that do not have a backup power source. The Borough should continue pursuing various grant opportunities as additional funding sources for mitigation projects.		



## CAPABILITY ASSESSMENT WORKSHEET

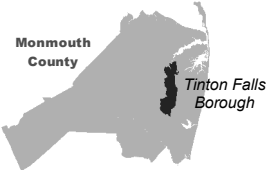
### Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	Yes	The Borough has an active Environmental Commission focused on protecting the environment.
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	The Borough regularly distributes information to the public on various topics at events such as Tinton Falls Community Day and Earth Day. Mitigation activities and information could be included in these activities.
Natural Disaster or Safety Related School Programs	Yes	There are various natural disaster and safety related programs and plans in place at the Borough schools.
StormReady Certification	No	
Firewise Communities Certification	No	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	
Other		
<b>How can these capabilities be expanded and improved to reduce risk?</b>		
The Borough should consider expanding their public outreach to include additional information on hazard mitigation and risk reduction.		







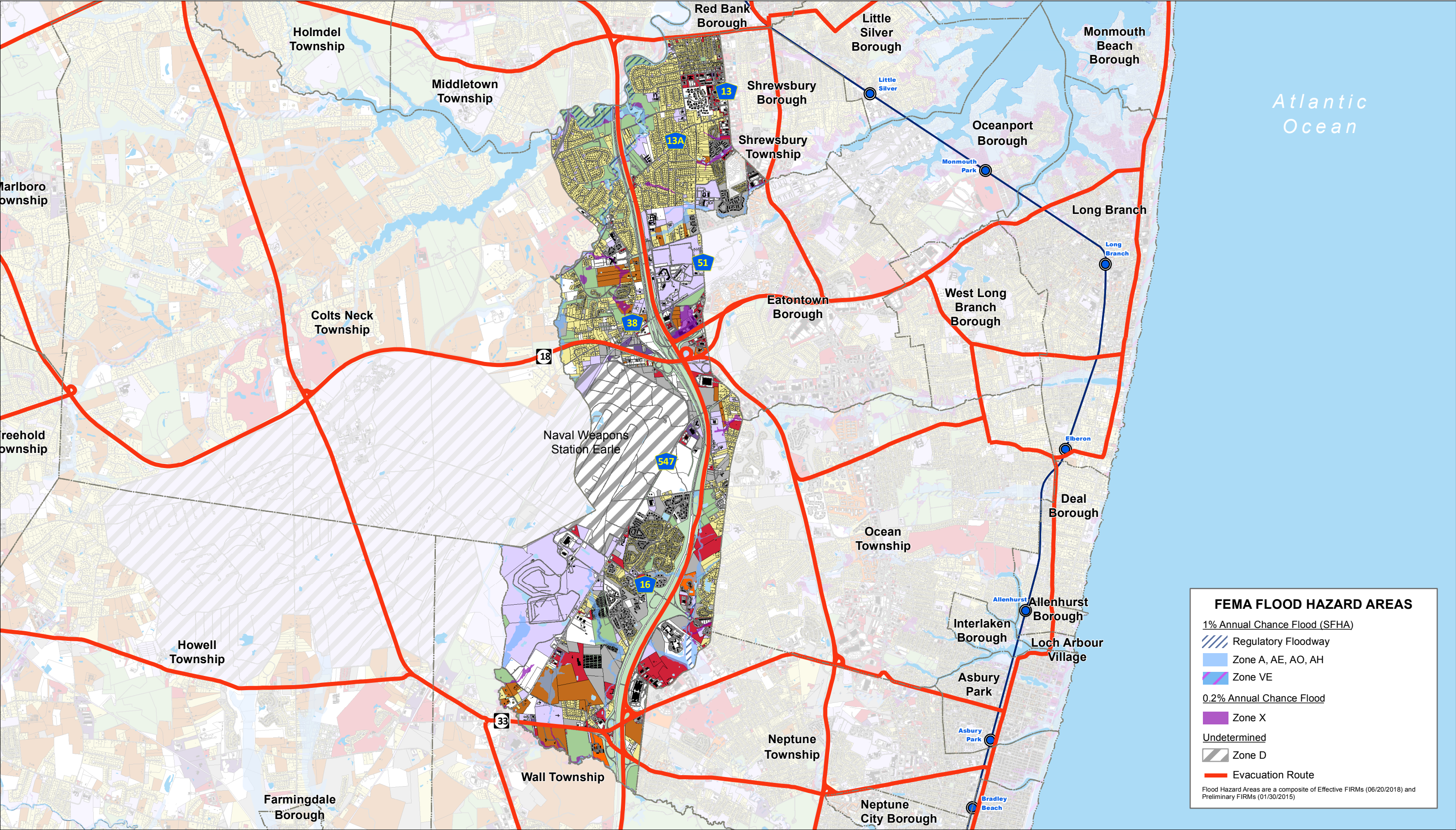
Parcel Classification

Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified
			Open Space

02,7505,500

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA  
Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

Regulatory Floodway

Zone A, AE, AO, AH

Zone VE

0.2% Annual Chance Flood

Zone X

Undetermined

Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRMs (06/20/2018) and Preliminary FIRMs (01/30/2015)

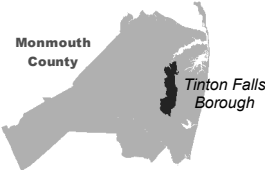
This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.





# TINTON FALLS BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Parcel Classification

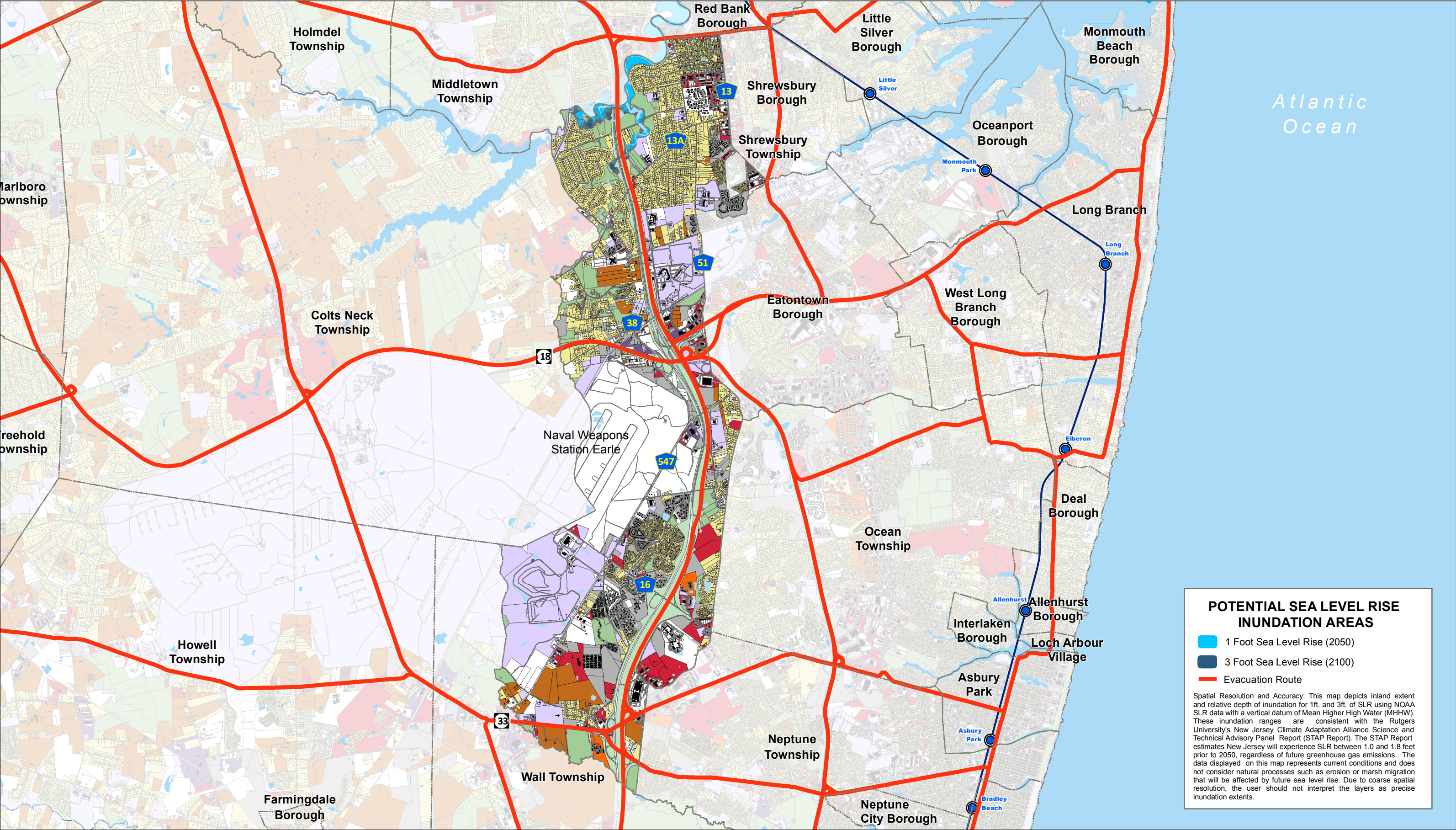
Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified
			Open Space

02,7505,500

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA  
Projection: New Jersey State Plane, NAD 1983



### POTENTIAL SEA LEVEL RISE INUNDATION AREAS

- 1 Foot Sea Level Rise (2050)
- 3 Foot Sea Level Rise (2100)
- Evacuation Route

Spatial Resolution and Accuracy: This map depicts inland extent and relative depth of inundation for 1ft. and 3ft. of SLR using NOAA SLR data with a vertical datum of Mean Higher High Water (MHHW). These inundation ranges are consistent with the Rutgers University's New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel Report (STAP Report). The STAP Report estimates New Jersey will experience SLR between 1.0 and 1.8 feet prior to 2050, regardless of future greenhouse gas emissions. The data displayed on this map represents current conditions and does not consider natural processes such as erosion or marsh migration that will be affected by future sea level rise. Due to coarse spatial resolution, the user should not interpret the layers as precise inundation extents.

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.





## MEETING NOTES

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**Topic:** Tilton Falls- Monmouth County HMP Update Meeting

**Date:** June 11, 2019

**Time:** 2:00 PM- 3:00 PM

**Location:** Borough Hall, 2nd Floor, 556 Tinton Avenue, Tinton Falls, NJ

**Attendees:**

Tom	Neff	Borough Engineer
Brittany	Ashman	MB Planner

**Drafted by:** Paige Kaspar

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### Introductions (Paige):

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
  - HMA
- Mitigation Strategies

### 2015 Mitigation Action:

- Mitigation 1: Create Stormwater Management Plan→
- Mitigation 2: Mitigation Outreach Program→ Ongoing capability
- Mitigation 3: Mitigation Plan/Program for Flooded Streets→ Ongoing
- Mitigation 4: Limit Development along Steep Slopes→ Ongoing 2015 action; withdraw?
- Mitigation 5: Wildfire Risk Map→ Ongoing
- Mitigation 6: Purchase NOAA Weather Radios for Critical Facilities→ ongoing
- Mitigation 7: Develop Educational Programs on Winter Hazards→ Ongoing
- Mitigation 8: Plant Winterstorm Resistant Trees→ Ongoing
- Mitigation 9: Generators for Critical Facilities→ Ongoing 2015 action; the borough has installed generator at the Heritage Blvd. pump station and at the Borough Complex.
- Mitigation 10: Elevation and/or Acquisition of Flood prone Residential Structures→ Ongoing 2015 action; have any home been elevated? How many more need to be elevated? 304 Water St is only RL property.



Date: 06-11-19