



## 9.12 Township of Eastampton

This section presents the jurisdictional annex for the Township of Eastampton.

### 9.12.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
David Shaw, EMC 12 Manor House Court, Eastampton, NJ 08060 609.529.3717 oem@eastampton.com	Eric Schubiger, Township Manager 12 Manor House Court, Eastampton, NJ 08060 609.267.5723 ext. 201 manager@eastampton.com

### 9.12.2 Municipal Profile

The first “official” owner of the property was Henry Stacy. This was as a result of surveys conducted at the time by Proprietors of the Province of West Jersey. After Mr. Stacy’s death in 1686, the original 500 acre tract was purchased by Sarah Parker. Ms. Parker was a widow and had five children, and they lived on the property for 44 years.

Mr. Jacob Parker, supposedly a descendent of the widow Parker, purchased 37 acres in order to build a dam on the Rancocas Creek, which then led to future industrial activity in the area. “Parker Mills” was operating in 1790. In 1816, Mr. Charles French purchased the property and continued to operate the Parkers Mills for the next 15 years.

After years of the expansion and development as a result of the mills, Hezekiah B. Smith redeveloped the area and by the late 1870’s “Smithville” was taking shape. The site now contained shops, factories, a foundry, school house, park and accommodations for 250 people. In 1878, Smith ran for public office and became Congressman Smith and was very active in getting the people in his area to petition the New Jersey Legislature to create a new township. Shortly after that, On March 9, 1880 at the Township meeting; Eastampton was officially incorporated as a township in the state of New Jersey per Senate Bill #14.<sup>1</sup>

The Eastampton Township Council consists of five members elected at large in partisan elections to staggered four-year terms of office. The Mayor and Deputy Mayor are selected each year by the Council from among its members.

The Township of Eastampton is centrally located within the northern section of Burlington County. It is bordered by Westampton to the north-west Springfield to the east and north-east, Pemberton Township to the southeast, Southampton to the south and Lumberton and Mount Holly to the south-west and west, respectively. The township includes two unincorporated communities, Smithville and Turpentine. According to the 2010 Census, the community's population was 6,069.

### Growth/Development Trends

<sup>1</sup> <http://www.eastampton.com/content/77/default.aspx>



The following table summarizes recent residential/commercial development since 2013 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.12.8 of this annex which illustrates the hazard areas along with the location of potential new development.

**Table 9.12-1. Growth and Development**

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2013 to present</b>					
Holgate/Ryan Homes	Residential	63	1349 Woodlane Road Block 600, Lots 5.02 5.03, 6 and 6.01	None.	In Progress
Eastampton Place	Mixed-Use	140	Woodlane Road Block 900.01, Lot 12.01	Wildfire: High	In Progress
Eastampton Place West	Mixed-Use	240	Woodlane Road Block 300, Lot 14	None.	In Progress
Lennar at Rancocas Creek	Mixed-Use	452	1020 Smithville Road Block 800, 9.03	Could not locate.	Approved

*\* Only location-specific hazard zones or vulnerabilities identified.*

### 9.12.3 Natural Hazard Event History Specific to the Municipality

Burlington County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2013 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

**Table 9.12-2. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	Burlington County Designated?	Summary of Damages/Losses
April 30-May 1, 2014	Heavy Rain and Flooding		Downed trees and wires, power outages, road closures
June 23, 2015	Severe Storm (DR-4231)	Yes	During the incident period straight-lined winds, heavy rains, and severe thunderstorms caused damage throughout the Township of Eastampton causing widespread downed trees, interruption of power, and infrastructure. The Township sustained town-wide debris causing hazardous and impassable road conditions which prevented safe passage for emergency vehicles and critical transportation.
January 22-24, 2016	Severe Winter Storm (DR-4264)	Yes	Minimal utility outages. Damage to Public Works equipment

Notes:

- EM      Emergency Declaration (FEMA)
- FEMA    Federal Emergency Management Agency





DR Major Disaster Declaration (FEMA)  
 N/A Not applicable

### 9.12.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Township of Eastampton. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Eastampton. During the review of the hazard/vulnerability risk ranking, the Township indicated the following:

- Flood was changed from a low hazard to a medium hazard.

**Table 9.12-3. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Coastal Erosion	RCV Exposed to CE Hazard Area: \$0	Rare	6	Low
Drought	Damage estimate not available.	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$979,820 2,500-Year GBS: \$14,449,572	Occasional	28	Medium
Flood*	1% Annual Chance: \$58,884,301	Frequent	18	Medium
Landslide	RCV Exposed to Landslide Hazard Area \$0	Rare	6	Low
Severe Storm	100-year MRP: \$988,097 500-year MRP: \$5,331,464 Annualized: \$66,988	Frequent	48	High
Severe Winter Weather	1% GBS: \$10,602,703 5% GBS: \$53,013,516	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$2,886,276	Occasional	12	Low

Notes:

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
  - The valuation of general building stock and loss estimates was based on custom inventory for the municipality.  
 High = Total hazard priority risk ranking score of 31 and above  
 Medium = Total hazard priority risk ranking of 20-30+  
 Low = Total hazard risk ranking below 20
  - Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
  - Loss estimates for the flood and earthquake hazards represent both structure and contents.
  - The HAZUS-MH earthquake model results are reported by Census Tract.
- \* The Township of Eastampton changed the risk ranking for flood from low to medium.

#### National Flood Insurance Program (NFIP) Summary





The following table summarizes the NFIP statistics for the Township of Eastampton.

**Table 9.12-4. NFIP Summary**

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Township of Eastampton	25	110	\$790,919.42	19	0	0

Source: FEMA Region 2 2017, 2018

(1) Repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 and are current as of 10/31/2017. Policy and claims statistics current as of 9/30/2018

Please note the total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 9/30/2018.

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

(3) The policies inside and outside of the flood zones are based on the addresses geocoded from the FEMA Region 2 policy file – 10/31/2017.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

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

### Critical Facilities

The table below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood event.

**Table 9.12-5. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
293 - Pistrock Property - Main House	County Building	X	X	6.5	44.5
294 - Derowski Property - Main House	County Building	X	X	10	65
295 - Jentsch Property - Main House	County Building	X	X	8	59
296 - Hennessy Property - Main House	County Building	X	X	8.5	60.5
441 - Bauer Property - Main House	County Building	X	X	0	0
442 - Bauer Property - Shed	County Building	X	X	7.1	50.3
443 - Ventures Property - Main House	County Building	X	X	7.7	56.1
444 - Ventures Property - Shed 1	County Building	X	X	8	59
445 - Ventures Property - Shed 2	County Building	X	X	6.2	41.6
446 - Ventures Property - Shed 3	County Building	X	X	5.3	32.9
462 - Hart Lessig Property - Structure 1	County Building	X	X	13.9	82.1
463 - Hart Lessig Property structure 2	County Building	X	X	7.4	53.2



Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
464 - Pray Property - Structure	County Building	X	X	7.1	50.3
465 - Graf Property - Structure	County Building	-	X	0	0
466 - Whitehead Property - Structure	County Building	-	X	-	-
520 - Bauer Property	County Building	X	X	0	0
526- Smithville Dam	County Building	X	X	6.5	44.5
530- Smithville Park Bridge Iii	County Building	X	X	-	-
531- Smithville Park Bridge Iv	County Building	X	X	-	-

Source: FEMA 2017, Burlington County

Note: - = Damages not calculated by HAZUS-MH v4.0

### Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- Rancocas Creek North Branch - flooding occurs in the low-lying areas adjacent to Rancocas Creek North Branch during hurricanes and other large storms.

### 9.12.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

### Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Eastampton.

**Table 9.12-6. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	1/20/2016	Local	Land Use Planning Board	Master Plan



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Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Capital Improvements Plan	5/23/17	Local	Township Council	Annual Budget
Floodplain Management / Basin Plan	11/22/17	Local	Township Council	Floodplain Management / Basin Plan
Stormwater Management Plan	2/1/2018	Local	Township Council	Stormwater Management Plan
Open Space Plan	6/22/16	Local	Township Council	Element of Master Plan
Stream Corridor Management Plan	No	-	-	-
Watershed Management or Protection Plan	No	-	-	-
Economic Development Plan	1/20/16	Local	Land Use Planning Board	Economic Development Plan
Comprehensive Emergency Management Plan	2012	Local	Emergency Management Committee	Comprehensive Emergency Management Plan
Emergency Operation Plan	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Transportation Plan	1/20/16	Local	Land Use Planning Board	Transportation Plan
Strategic Recovery Planning Report	No	-	-	-
Other Plans:	-	-	-	-
<b>Regulatory Capability</b>				
Building Code	Yes	State & Local	-	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Adopted in 1978 updated dozens of times, last being 2012	Local	Township Council	Chapter 540
Subdivision Ordinance	Adopted in 1977 and last amended in 2012	Local	Township Council for Adoption Planning Board for Implementation	Chapter 460
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Zoning Officer	Chapter 450
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	Yes	State, Local	Zoning Officer	
Growth Management Ordinances	No	-	-	-
Site Plan Review Requirements	No	-	-	-





Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Stormwater Management Ordinance	Yes	Local	Township Council	Chapter 450
Municipal Separate Storm Sewer System (MS4)	No	-	-	-
Natural Hazard Ordinance	No	-	-	-
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	No	-	-	-
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No	--	-	-

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Eastampton.

**Table 9.12-7. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Land Use Planning Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Economic Development Advisory Committee
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Economic Development Advisory Committee
Maintenance programs to reduce risk	Yes	Public Works Department
Mutual aid agreements	Yes	Burlington County
<b>Technical/Staffing Capability</b>		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Township Engineer and Township Planner
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Township Engineer
Planners or engineers with an understanding of natural hazards	Yes	Township Engineer and Township Planner
NFIP Floodplain Administrator (FPA)	Yes	Kathy Newcomb, Zoning Officer
Surveyor(s)	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Township Engineer
Scientist familiar with natural hazards	No	-
Emergency Manager	Yes	Emergency Management Coordinator
Grant writer(s)	Yes	Township Manager and Township Engineer
Staff with expertise or training in benefit/cost analysis	Yes	Township Manager and Township Engineer



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Professionals trained in conducting damage assessments	Yes	Construction Official

### Fiscal Capability

The table below summarizes financial resources available to the Township of Eastampton.

**Table 9.12-8. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	Yes
Other	-

### Community Classifications

The table below summarizes classifications for community program available to the Township of Eastampton.

**Table 9.12-9. Community Classifications**

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
Storm Ready Certification	No	N/A	N/A
Firewise Communities classification	No	ISO Class 4	2003
Natural disaster/safety programs in/for schools	No	-	-
Organizations with mitigation focus (advocacy group, non-government)	No	-	-
Public education program/outreach (through website, social media)	No	-	-
Public-private partnership initiatives addressing disaster-related issues	No	-	-

Note:

N/A Not applicable

NP Not participating





- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

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

### Self-Assessment of Capability

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

**Table 9.12-10. Self-Assessment Capability for the Municipality**

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and regulatory capability		X	
Administrative and technical capability		X	
Fiscal capability		X	
Community political capability		X	
Community resiliency capability		X	
Capability to integrate mitigation into municipal processes and activities		X	

### National Flood Insurance Program

#### NFIP Floodplain Administrator (FPA)

Kathy Newcomb, Zoning Officer

#### Flood Vulnerability Summary

Eastampton Township does maintain lists or inventories of properties that have been damaged by flooding. However, during Hurricane Sandy and other recent events, there was no structural within the Township. The FPA indicated that there are currently no residents interested in mitigation of their property.



## Resources

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The FPA and the Township Engineer assume the responsibilities of floodplain administration for Eastampton Township. NFIP administration services and functions provided to residents of Eastampton include permit review and inspections. At this time, there are no education or outreach programs to the community regarding flood hazards/risk or flood risk reduction. The FPA stated that there are currently no barriers to running an effective floodplain management program; however she does not feel adequately supported or trained to fulfill the responsibilities as the municipal floodplain administrator. The FPA would consider attending continuing education and certification training on floodplain management if it were offered in the future.

## Compliance History

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The Township is currently in good standing with the NFIP; however, the date of the most recent compliance audit is unknown.

## Regulatory

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Eastampton Township's floodplain ordinance meets the minimum set by FEMA and the State of New Jersey. There are other local ordinances, plans or programs that support floodplain management and meeting the NFIP requirements. The Township is currently not in the Community Rating System (CRS) program; however, they have considered joining the and would attend a seminar if offered.

## Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

## Planning

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**Master Plan:** Eastampton Township adopted the 2016 Master Plan Reexamination Report on January 20, 2016. The reexamination report includes a review of past conditions, a review of changing conditions, significant changes in assumptions, policies and objectives, specific changes recommended, and redevelopment plan status. The reexamination report notes that the stormwater management plan element of the Master Plan is current and recommends that the following existing elements be revised/amended: land use plan element, open space and recreation element, and recycling plan element. The report also recommends updates to the existing housing element and fair housing plan element and the plan comparison and consistency element. Recommendations for new elements include: circulation plan element, community facilities plan element, and historic preservation plan element.

## Regulatory and Enforcement (Ordinances)

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**NJDEP Municipal Stormwater Regulation Program:** New Jersey Department of Environmental Protection issued the statewide municipal stormwater permits that became effective January 1, 2018 and authorizes stormwater discharges from municipal separate storm sewer systems (MS4s) to the waters of the state. Municipalities that have been issued a Notice of Authorization (NOA) to discharge under the Tier A (urban and coastal municipalities) or Tier B (more rural municipalities) master general permit must develop and implement a stormwater program. The first New Jersey Pollutant Discharge Elimination System (NJPDES) permit authorizing discharges from MS4 municipalities became effective in 2004 (subsequently renewed in 2009 and now in 2018), so most municipalities have developed stormwater programs; however, the 2018 permit requires



the municipalities to maintain a stormwater management plan and enforce stormwater ordinances to address development and redevelopment consistent with the Stormwater Management rules at N.J.A.C 7:8, as well as implementation of additional requirements. For more information on the municipal stormwater regulation program, see [www.nj.gov/dep/dwq/msrp\\_home.htm](http://www.nj.gov/dep/dwq/msrp_home.htm). Eastampton is a Tier A municipality.

**Stormwater Management:** Chapter 450 of the municipal code discusses stormwater management regulations. The chapter finds that the waterways within the Township of Eastampton are, at times, subjected to flooding; that such flooding is a danger to the lives and property of the public; that such flooding is also a danger to the natural resources of the Township of Eastampton, Burlington County, in the State of New Jersey; that development tends to accentuate such flooding by increasing stormwater runoff due to alteration of the hydrologic response of the watersheds (north branch of the Rancocas Creek and Barker's Brook) in changing from the undeveloped to the developed conditions; that such increased flooding produced by the development of real property contributes increased quantities of waterborne pollutants and tends to increase channel erosion; that such increased flooding, increased erosion and increased pollution constitutes deterioration of the water resources of the Township of Eastampton, County of Burlington, in the State of New Jersey; and that such increased flooding, increased erosion and increased pollution can be controlled to some extent by the regulation of stormwater runoff from such development. It is therefore determined that it is in the public interest to regulate the development of real property with respect to stormwater and to establish standards to regulate the additional discharge of stormwater runoff from such developments. The chapter is intended to regulate private storm drain inlet retrofitting, refuse containers and dumpsters, and illicit connections; misuse of system.

### Operational and Administration

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Eastampton Township has the following board and commission.

- Environmental Commission
- Land Use Planning Board

### Funding

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Eastampton Township has mutual aid agreements with Burlington County. The Township Manager and Township Engineer have grant writing capability. Financial resources that the Township has access to or are eligible to use include Community Development Block Grants, Capital Improvement Project Funding, the authority to levy taxes for specific purposes, the ability to incur dept through general obligation bonds, the ability to incur debt through private activity bonds, and open space acquisition funding programs.

### Education and Outreach

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Eastampton Township has a website where one can access information about the Township's council and committees, departments, history, what's happening, announcements, and documents and forms. On the Eastampton Township Police Department page there is information for residents on how to sign up for NIXLE to receive notifications on road closures, weather updates, and latest happenings in the community.

## 9.12.6 Mitigation Strategy and Prioritization

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

### Past Mitigation Initiative Status

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The following table indicates progress on the community's mitigation strategy identified in the 2013 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own



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table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.12-11. Status of Previous Mitigation Actions

Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
EA-1	GENERATORS - The police and public works facilities are co-located. The property does not have a back-up power generator. This can impact the ability to handle administrative activities, minor repair operations, and access to fuel pumps. The Township would like a generator for this site that it could relocate in the future should be able to eventually relocate the facilities in the near future.	Twp. OEM, Twp. PD, Twp. DPW	In Progress	1. 50% complete. 2. Budget constraints	1. Include in 2019 HMP 2. Secure additional funding for generators
EA-2	DEBRIS - Clearing debris from North Branch of Rancocas Creek	Twp. DPW, Twp. Engineer	In Progress	50% complete. Police Department was relocated, but Public Works remain on site.	1. Include in 2019 HMP 2.
EA-3	RELOCATE DPW & POLICE – The southern 1/6th of Township is cleaved by the 1% event flood hazard area. So our police and public works facilities can become cut off from 95% of population. Relocating police and public works to a more central location is a high priority.	Twp. OEM, Twp. PD, Twp. DPW	No Progress	1. 50% complete. Police Department was relocated, but Public Works remain on site. 2. Determine site for Public Works	1. Include in 2019 HMP 2. Relocate the Public Works
EA-4	Evaluate benefits of participating in CRS program	Twp. Council; Planning	In Progress	Ongoing.	1. Include in 2019 HMP 2. Continue evaluating the efficacy of joining CRS and securing funding to do so



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
EA-5	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none"> <li>Disaster preparedness</li> <li>Hazard mitigation</li> </ul>	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Complete	Complete	<ol style="list-style-type: none"> <li>Discontinue</li> <li>Ongoing capability</li> </ol>
EA-6	Improve municipal communications systems to include information sharing with county and surrounding municipalities.	Municipality with support from County, NJOEM and FEMA	No Progress	Budget constraints	<ol style="list-style-type: none"> <li>Include in 2019 HMP</li> <li>Seek funding</li> </ol>
EA-7	Obtain and install backup power sources at critical facilities.	Municipality with support from County, NJOEM and FEMA	In Progress	Participate with neighboring municipalities and County for police, public works and planning services.	<ol style="list-style-type: none"> <li>Include in 2019 HMP</li> <li>Secure funding for generators, and work with neighboring municipalities to purchase</li> </ol>
EA-8	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	Municipality with support from County, NJOEM, FEMA and surrounding communities	Complete	Working with neighboring communities to enhance and maintain agreements	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> </ol>
EA-9	Continue to support the implementation, monitoring, maintenance, and updating of this Plan through participating in the 5 year Plan Update	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Complete	Complete	<ol style="list-style-type: none"> <li>Discontinue</li> <li></li> <li>Participating in plan update</li> </ol>
EA-10	Promote the participation of Floodplain Administrator	Municipality with support	No Progress	No progress made on pursuing the action	<ol style="list-style-type: none"> <li>Include in 2019 HMP</li> <li>Pursue action</li> </ol>



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	within the planning process and other related activities.	from County, NJOEM and FEMA			
EA-11	Enhance resilience to severe storms by joining the NOAA “Storm Ready” program.	Municipality with support from County, NJOEM and FEMA	In Progress	Budget constraints	1. Include in 2019 HMP 2. Determine benefit of joining the program
EA-12	Provide public education and outreach on proper installation and/or use of backup power	Township Manager	In Progress	Budget constraints	1. Include in 2019 HMP 2. Seek funding
EA-13	Address dangerous trees threatening people and property through proactive tree-trimming (vegetation management) programs in conjunction with property owners and utility companies.	Municipal DPW	Complete	Complete	1. Discontinue 2. Ongoing capability
EA-14	Support the mitigation of vulnerable structures via retrofit (eg. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable. Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss. Phase 2: Work with the property owners to implement selected action based on available funding from the	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NJOEM, FEMA	In Progress	1. 50% complete. 2. Working to see which candidates are interested in mitigation action	1. Include in 2019 HMP 2. Work with candidate property owners





Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	State and FEMA and local match availability.				



### **Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy**

The Township of Eastampton has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2013 Plan:

- None identified by the municipality.

### **Proposed Hazard Mitigation Initiatives for the Plan Update**

The municipality participated in a mitigation action workshop in March 2018 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.12-12 summarizes the comprehensive-range of specific mitigation initiatives the Township of Eastampton would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

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

Table 9.12-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.12-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
EA-1 (Former EA-1)	Generators at Police Dept./DPW	Yes	All	1, 2, 6	Twp. OEM, Twp. PD, Twp. DPW	High	High	Municipal Budget	Short	High	SIP	PR
EA-2 (Former EA-2)	Debris Cleanup	No	Flood	4	Twp. DPW, Twp. Engineer	High	High	State, County grant opportunities	Medium	Medium	NSP	NR
EA-3 (Former EA-3)	Relocate DPW	Yes	All	2, 6	Twp. OEM, Twp. PD, Twp. DPW	High	High	HMA programs with local or county match	Short	High	SIP	PR, ES
EA-4 (Former EA-4)	Evaluate benefits of participating in CRS program	No	All	All	Twp. Council; Planning	Medium	Low	Twp./Public	OG	Medium	LPR	PR
EA-5 (Former EA-5)	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include:  • Disaster preparedness Hazard mitigation	No	All	All	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget, HMA, programs with local or county match	Short Term	High	LPR, EAP	PE
EA-6 (Former EA-6)	Improve municipal communications systems to include information sharing with county and surrounding municipalities.	No	All Hazards	1, 2, 6	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	LPR	PR, ES
EA-7 (Former EA-7)	Obtain and install backup power sources at critical facilities.	Yes	All Hazards	1, 2, 6	Municipality with support from County, NJOEM, FEMA and surrounding communities	Medium	Medium	Municipal Budget	Short	Medium	SIP	ES
EA-8 (Former EA-10)	Promote the participation of Floodplain Administrator within the planning process and other related activities.	No	Flood	6	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	LPR	PR
EA-9 (Former EA-11)	Enhance resilience to severe storms by joining the NOAA "Storm Ready" program.	No	Severe Storm	All	Township Manager	Medium	Low	Municipal Budget	Short Term, DOF	Medium	LPR	PE





Table 9.12-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
EA-10 (Former EA-12)	Provide public education and outreach on proper installation and/or use of backup power	No	Severe Storm		Municipal DPW	Medium	Low	Municipal Budget	Short	High	EAP	PR
EA-11 (Former EA-14)	Support the mitigation of vulnerable structures via retrofit (e.g. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable.  Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss.  Phase 2: Work with the property owners to implement selected action based on available funding from the State and FEMA and local match availability.	No	Flood, Severe Storm	1, 2, 3	Twp. DPW, Twp. Engineer	High	High	Municipal Budget, HMA, programs with local or county match	Short, DOF	High	SIP	PP
EA-12	Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	Flood, Severe Storm	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP
EA-13	During future updates of the Master Plan, Floodplain Management Plan, or the Emergency Operation Plan, work to integrate hazard mitigation	No	All Hazards	All	Municipality	High	Low	Municipal Budget	Short Term, Depending on update schedule	High	LPR	PR, PI





**Table 9.12-12. Proposed Hazard Mitigation Initiatives**

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.											
EA-14	<p>The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:</p> <ul style="list-style-type: none"> <li>• E Mill Creek Road</li> <li>• W Mill Creek Road</li> <li>• Rabbit Run</li> <li>• Paducah Road</li> <li>• Leni Lenape trail</li> </ul> <p>Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.</p>	No	Flood	1, 2	Municipality with support from County	High	High	Grant funding; Municipal budget	Short	High	SIP	PP

**Notes:**

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

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

**Acronyms and Abbreviations:**

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works  
 FEMA Federal Emergency Management Agency

**Potential FEMA HMA Funding Sources:**

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

**Timeline:**

Short 1 to 5 years  
 Long Term 5 years or greater  
 OG On-going program  
 DOF Depending on funding





FPA	Floodplain Administrator	RFC	Repetitive Flood Claims Grant Program (discontinued in 2015)
HMA	Hazard Mitigation Assistance	SRL	Severe Repetitive Loss Grant Program (discontinued in 2015)
N/A	Not applicable		
NFIP	National Flood Insurance Program		
OEM	Office of Emergency Management		

Costs:

Where actual project costs have been reasonably estimated:

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

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

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

Benefits:

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

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

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

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

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

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





Table 9.12-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
EA-1 (Former EA-1)	Generators at Police Dept/DPW	1	1	1	1	1	1	0	-1	0	1	1	1	1	0	9	High
EA-2 (Former EA-2)	Debris Cleanup	0	0	1	1	1	1	1	1	0	1	0	1	1	0	9	Medium
EA-3 (Former EA-3)	Relocate DPW	1	1	1	1	1	1	-1	0	0	1	1	1	1	0	9	High
EA-4 (Former EA-4)	Evaluate benefits of participating in CRS program	1	1	1	0	1	1	0	0	0	1	1	1	1	0	9	Medium
EA-5 (Former EA-5)	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include:  • Disaster preparedness Hazard mitigation	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
EA-6 (Former EA-6)	Improve municipal communications systems to include information sharing with county and surrounding municipalities.	0	0	1	1	1	1	1	0	0	1	1	1	1	0	9	Medium
EA-7 (Former EA-7)	Obtain and install backup power sources at critical facilities.	1	1	1	1	1	1	0	-1	0	1	1	1	1	0	9	Medium
EA-8 (Former EA-10)	Promote the participation of Floodplain Administrator within the planning process and other related activities.	0	0	1	1	1	0	0	0	0	1	0	1	1	0	6	Medium
EA-9 (Former EA-11)	Enhance resilience to severe storms by	1	0	0	1	1	1	0	0	1	1	1	0	1	0	8	Medium





Table 9.12-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	joining the NOAA “Storm Ready” program.																
EA-10 (Former EA-12)	Provide public education and outreach on proper installation and/or use of backup power																High
EA-11 (Former EA-14)	Support the mitigation of vulnerable structures via retrofit (e.g. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable.  Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss.  Phase 2: Work with the property owners to implement selected action based on available funding from the State and FEMA and local match availability.	1	1	1	1	1	1	0	0	1	1	1	0	1	0	10	High
EA-12	Coordinate with the facility managers at County Buildings in the Township to support the mitigation	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium





Table 9.12-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.																
EA-13	During future updates of the Master Plan, Floodplain Management Plan, or the Emergency Operation Plan, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.	1	1	1	1	1	1	1	0	0	1	1	0	1	0	10	High
EA-14	The Township will promote and support non-structural flood hazard mitigation alternatives for at risk	1	1	0	1	1	1	-1	0	0	1	0	1	1	0	8	High





Table 9.12-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low	
	<p>properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:</p> <ul style="list-style-type: none"> <li>• E Mill Creek Road</li> <li>• W Mill Creek Road</li> <li>• Rabbit Run</li> <li>• Paducah Road</li> <li>• Leni Lenape trail</li> </ul> <p>Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.</p>																	

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions.



### **9.12.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.12.8 Hazard Area Extent and Location**

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

### **9.12.9 Additional Comments**

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None at this time.



Figure 9.12-1. Township of Eastampton Hazard Area Extent and Location Map 1

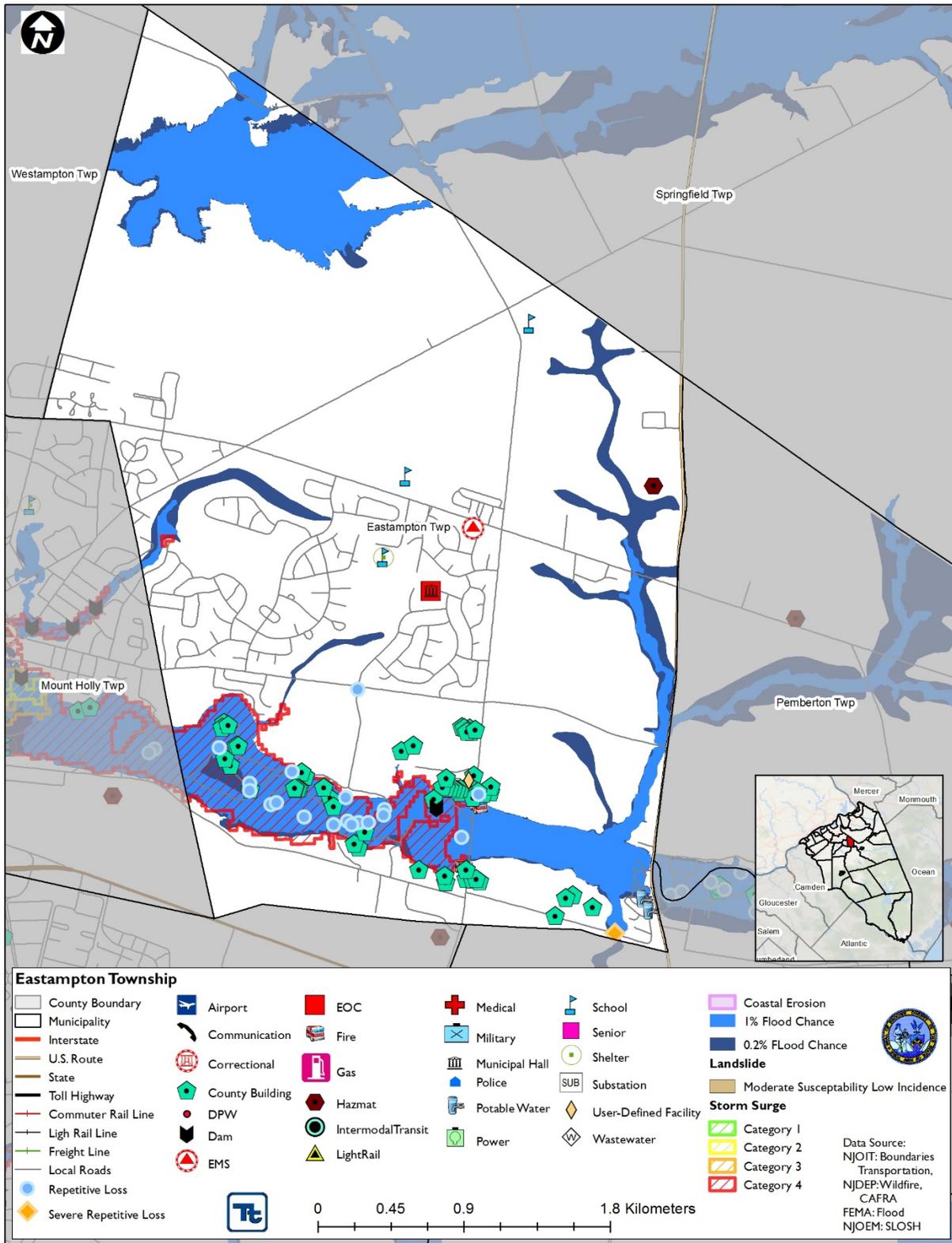
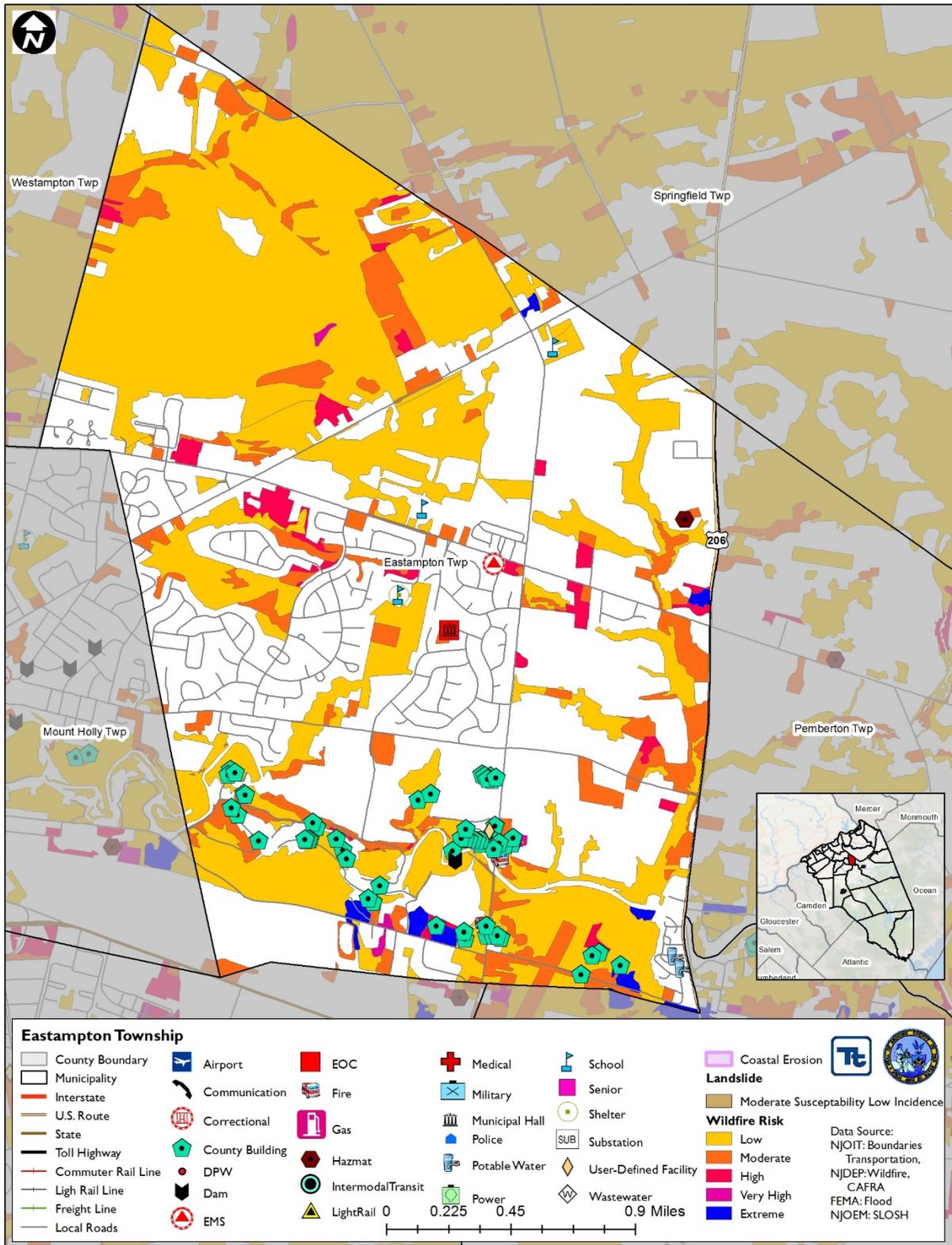




Figure 9.12-2. Township of Eastampton Hazard Area Extent and Location Map 2





Action Number:

EA-1 (Former EA-1)

Mitigation Action Name:

Generators at Police Dept./DPW

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Backup power to essential facilities is critical during an emergency event
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Solar panels – Costly, may not provide adequate power</li> <li>3. Mobile generator – May not have adequate capacity or run time.</li> </ol>
Action/Project Intended for Implementation	
Description of Selected Action/Project	Installation of generators and backup power required to ensure the building's ability to remain functional during an event.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Twp. OEM, Twp. PD, Twp. DPW
Local Planning Mechanism	PR
Potential Funding Sources	Municipal Budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: 50% complete; budget constraints



**Action Number:** EA-1 (Former EA-1)  
**Mitigation Action Name:** Generators at Police Dept./DPW

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Continuity of operations; allow critical services to remain operational during power outages
Property Protection	1	Continuity of operations; allow structure to remain operational during power outages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	-1	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (H/M/L)</b>	High	



**Action Number:** EA-3 (Former EA-3)

**Mitigation Action Name:** Relocate DPW

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All
<b>Specific problem being mitigated:</b>	The DPW is a critical asset to remain operational during an emergency event and access to and from the building must remain uninhibited.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Elevate DPW structure – May not fully reduce all risk</li> <li>3. Retrofit DPW facility – May not prevent damage sustained from all types of hazards.</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Relocate DPW to a more suitable location out of any hazard area.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	2, 6
<b>Critical Facility (Y/N)</b>	Yes
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Twp. OEM, Twp. PD, Twp. DPW
<b>Local Planning Mechanism</b>	PR, ES
<b>Potential Funding Sources</b>	HMA programs with local or county match
<b>Timeline for Completion</b>	Short
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 1/31/18 Status: 50% complete. Police Department was relocated, but Public Works remain on site. Determine site for Public Works



**Action Number:** EA-3 (Former EA-3)  
**Mitigation Action Name:** Relocate DPW

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Eliminate flood risk and damage to DPW facility
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	Need funding to complete project
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (H/M/L)</b>	High	



**Action Number:**

EA-7 (Former EA-7)

**Mitigation Action Name:**

Obtain and install backup power sources at critical facilities.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All Hazards
<b>Specific problem being mitigated:</b>	Backup power to essential facilities is critical during an emergency event
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Solar panels – Costly and not have supply adequate power</li> <li>3. Mobile generator – May not have adequate fuel or electrical capacity to power the facilities.</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Installation of generators and backup power required to ensure the building's ability to remain functional during an event.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 2, 6
<b>Critical Facility (Y/N)</b>	Yes
<b>Benefits (losses avoided)</b>	Medium
<b>Estimated Cost</b>	Medium
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Municipality with support from County, NJOEM, FEMA and surrounding communities
<b>Local Planning Mechanism</b>	ES
<b>Potential Funding Sources</b>	Municipal Budget
<b>Timeline for Completion</b>	Short
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 1/31/18 Status: Participate with neighboring municipalities and County for police, public works and planning services.



Action Number:

EA-7 (Former EA-7)

Mitigation Action Name:

Obtain and install backup power sources at critical facilities.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Continuity of operations; allow critical facilities to remain operational during power outages and provide emergency services to residents
Property Protection	1	Continuity of operations; allow critical facilities to remain operational during power outages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Need funding to complete
Environmental	-1	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (H/M/L)</b>	Medium	



**Action Number:**

EA-11 (Former EA-14)

**Mitigation Action Name:**

Support the mitigation of vulnerable structures via retrofit (e.g. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable.  
 Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss.  
 Phase 2: Work with the property owners to implement selected action based on available funding from the State and FEMA and local match availability.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Storm
<b>Specific problem being mitigated:</b>	Repetitively flooded properties place an undue stress on the property owner and village and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Acquire all facilities in the floodplain – Cost prohibitive</li> <li>3. Elevate all structures in the floodplain – Cost prohibitive</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 2, 3
<b>Critical Facility (Y/N)</b>	No
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Twp. DPW, Twp. Engineer
<b>Local Planning Mechanism</b>	PP
<b>Potential Funding Sources</b>	Municipal Budget, HMA, programs with local or county match
<b>Timeline for Completion</b>	Short, DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 5/31/18 Status: New Action



**Action Number:**

EA-11 (Former EA-14)

**Mitigation Action Name:**

Support the mitigation of vulnerable structures via retrofit (e.g. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable.  
 Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss.  
 Phase 2: Work with the property owners to implement selected action based on available funding from the State and FEMA and local match availability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents from the health impacts flooded homes can have
Property Protection	1	Reduce / eliminate flood damage to homes
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Need funding to complete project
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	10	
<b>Priority (H/M/L)</b>	High	



**Action Number:**

EA-12

**Mitigation Action Name:**

Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.  
 Phase 1: Identify most cost-effective mitigation option  
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Storm
<b>Specific problem being mitigated:</b>	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Acquire all facilities in the floodplain – Cost prohibitive</li> <li>3. Elevate all structures in the floodplain – Cost prohibitive</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Mitigation of critical facilities.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 2, 6
<b>Critical Facility (Y/N)</b>	Yes
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Municipality with support from County
<b>Local Planning Mechanism</b>	SP, PP
<b>Potential Funding Sources</b>	HMA Grants, Municipal Budget
<b>Timeline for Completion</b>	Short, DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 5/31/18 Status: New Action



**Action Number:**  
**Mitigation Action Name:**

EA-12

Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.  
 Phase 1: Identify most cost-effective mitigation option  
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Increase awareness of facility operator and provide potential mitigation projects to protect structure
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	Project will have no negative environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (H/M/L)</b>	Medium	



**Action Number:**

EA-14

**Mitigation Action Name:**

The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- E Mill Creek Road
- W Mill Creek Road
- Rabbit Run
- Paducah Road
- Leni Lenape trail

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	Repetitively flooded properties place an undue stress on the property owner and Township and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. No Action - current problem continues</li> <li>2. Construct floodwalls and levees around floodprone areas – Could disrupt natural floodplain function</li> <li>3. Install green infrastructure around floodprone areas – May not have adequate space for adequate effectiveness</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 2
<b>Critical Facility (Y/N)</b>	No
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Municipality with support from County
<b>Local Planning Mechanism</b>	PP
<b>Potential Funding Sources</b>	Grant funding; Municipal budget
<b>Timeline for Completion</b>	Short
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 5/31/18 Status: New Action





**Action Number:**  
**Mitigation Action Name:**

EA-14

The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- E Mill Creek Road
- W Mill Creek Road
- Rabbit Run
- Paducah Road
- Leni Lenape trail

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents from the health impacts flooded homes can have
Property Protection	1	Reduce / eliminate flood damage to homes
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	Need funding to complete project
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	8	
<b>Priority (H/M/L)</b>	High	