



9.6 Township of Franklin

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

9.6.1 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
Denise L. Becton, Municipal Clerk 2093 Route 57, Broadway, NJ 08808 (908) 689-3994 ext, 15 clerk@franklintwpwarren.org	Raymond Read, OEM 2093 Route 57, Broadway, NJ 08808 (908) 689-3994 ext. 22 oem@franklintwpwarren.org

9.6.2 Municipal Profile

Franklin Township is a rural community in southern Warren County. It is bordered to the north by the Townships of White, Harmony, and Washington; to the south by Greenwich Township and Morris County; to the east by Washington Township and Morris County; and to the west by Harmony Township. The Township covers an area of approximately 24 square miles and contains three villages: Asbury, Broadway, and New Village. According to the U.S. Census, the 2010 population for Township of Franklin was 3,176. Additionally, the Township has 3,763 acres in the New Jersey Highlands Preservation Area and 11,288 acres in the Planning Area.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2011 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 section 9.X of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.6-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
None identified at this time.					
Known or Anticipated Development in the Next Five (5) Years					
RLL Major Subdivision	Res.	10	Maple Avenue, Block 51, Lot 4		Approved
Moncada Solar Farm	Comm.	N/A	Good Springs Road, Block 26, Lots 16/17		Approved, construction pending
Chapel at Warren Valley Church	Comm.	1	Stewartsville Road, Block 39, Lots 6.03		Approved

* Only location-specific hazard zones or vulnerabilities identified.

9.6.3 Natural Hazard Event History Specific to the Municipality

Warren 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 2008 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 9.6-1. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
August 26 – September 5, 2011	Hurricane Irene	DR-4021	Yes	43 evacuations; 112 pump details by fire dept to remove water from residents; Road closures due to trees and power lines down roadway washouts due to flooding; 22 residential and 11 commercial structures were damaged. The Township requested Public Assistance for reimbursement for labor, materials, equipment (\$27,468.71).
September 28 – October 6, 2011	Remnants of Tropical Storm Lee	DR-4039	Yes	21 evacuations; 187 pump details remove water from residents by fire dept. ; 12 Road closures due to water and debris, loss of power due to down power lines; Roadways washed out; 14 residential structures and 9 commercial structures were damaged. The Township requested Public Assistance for reimbursement for labor, materials, equipment (\$41,515.26). The volunteer fire department labor was over 478 hours.
October 29, 2011	Severe Storm	DR-4048	Yes	Evacuated 18 residents; lost power and roads were closed and damaged. 32 residential and 19 commercial properties experienced damage. The Township requested Public Assistance for reimbursement for labor, materials and equipment: \$14,891.25
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	43 Residents evacuated and temp. Sheltered Water pump out of resident calls 132 from fire dept.; Utility power outage in the township 2600 people affected. 6 roads closed due to trees and power lines down, Millbrook rd, halfway house rd, Montana rd, mountain view rd, mountain view rd west, Stewartville rd closing time was from 10/29/12 thru 11/7/12; Roadways were washed out; 23 residential and 12 commercial properties experienced damage/ The cost to cleanup and grind and chip trees was \$3,600. The Township requested Public Assistance for reimbursement for labor, regular time equipment (\$29,247.40) and contract (\$3,600) for a total of \$45,511.37.

9.6.4 Hazard Vulnerabilities and Ranking

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

Table 9.6-2. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Dam Failure	Damage estimate not available	Occasional	24	Medium
Drought	Damage estimate not available	Frequent	30	Medium
Earthquake	100-Year GBS: \$0	Occasional	28	Medium
	500-Year GBS: \$163,631			
	2,500-Year GBS: \$2,613,132			
Flood	1% Annual Chance: \$10,471,530	Frequent	18	Medium
Geologic	RCV Exposed to Carbonate Rock Areas: \$342,439,820	Frequent	54	High
	100-year MRP: \$182,198.00			
Hurricane	500-year MRP: 1669093	Frequent	48	High
	Annualized: \$17,523.00			
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Storm	100-Year MRP: \$182,198	Frequent	48	High
	500-year MRP: \$1,669,093			
	Annualized: \$17,523			
Severe Winter Storm	1% GBS: \$2,547,536	Frequent	51	High
	5% GBS: \$12,737,682			
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$12,394,200	Frequent	24	Medium
Hazardous Materials	Damage estimate not available	Frequent	36	High

Notes:

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

- a. The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.
- b. High = Total hazard priority risk ranking score of 31 and above
 Medium = Total hazard priority risk ranking of 20-30+
 Low = Total hazard risk ranking below 20
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 2.2 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the geologic and wildfire hazards, the improved value and estimated contents of buildings located within the identified hazard zones is provided.



National Flood Insurance Program (NFIP) Summary

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

Table 9.6-3. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Franklin, Township of	17	9	\$32,650	1	0	5

Source: FEMA, 2014

Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of December 31, 2014 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. Number of claims includes open and closed claims. The number of claims represents claims closed by 12/31/2014.

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

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

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

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

Critical Facilities

The table below presents the number of critical facilities, by type, in the community located in the effective FEMA flood zones (1% and 0.2% annual chance boundaries).

Table 9.4-4. Number of Critical Facilities in the DFIRM 1% and 0.2% Annual Chance Flood Boundaries

Municipality	1% Annual Chance		0.2% Annual Chance	
	DPW	EMS	DPW	EMS
Franklin, Township of	1	1	1	1

Source: Warren County, FEMA 2011

Other Vulnerabilities Identified by Municipality

According to the Township’s 2007 Natural Resource inventory, ‘The low-lying sedimentary formation accounts for 57.52% of Township land and is associated with the Musconetcong River and Pohatcong Creek river valleys. Lithology of this formation includes limestone, shale, and sandstone, and is dominated by Allentown Dolomite. Sinkholes are a common feature of this type of karst geology, which is defined by the dissolution of the soluble lithology.’

The northern and central sections of the Township are characterized by steep slopes and ridgelines (greater than 25%). In general, the soils of Franklin Township are very susceptible to erosion. Highly Erodible soils cover 46% of the Township, while Potentially Highly Erodible Soils are found throughout 45% of the Township. Erosion within the Township is largely a function of slope and topography (NRI, 2007).



9.6.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

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

Planning and Regulatory Capability

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

Table 9.6-4. 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.)
Planning Capability				
Master Plan	Yes	Local	Land Use Board	2011 Master Plan Reexamination Report
Capital Improvements Plan	No	Local		
Floodplain Management / Basin Plan	Yes	Local	Engineer	Flood Damage Prevention Ordinance, Part II, Chapter 80
Stormwater Management Plan	Yes	Local	Engineer	September, 2005
Open Space Plan	Yes	Local	Engineer, Open Space Commission	Open Space and Recreation Plan, January 2006
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No	County and Local	OEM	Emergency Operations Plan (EOP)
Emergency Response Plan	Yes	Local		Emergency Operations Plan (EOP)
Post-Disaster Recovery Plan	No			
Transportation Plan	Yes	State DOT	DOT	
Strategic Recovery Planning Report	No			
Other Plans:	Yes	Local, County, State	Land Use Board	
Regulatory Capability				
Building Code	Yes	State & Local	Building Department	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.) Part II, Chapter 80



Table 9.6-4. 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.)
Zoning Ordinance	Yes	Local	Zoning Officer; Land Use Board	Part II, Chapter 90
Subdivision Ordinance	Yes	Local	Zoning Officer; Land Use Board	Chapter 90
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Zoning Officer/NFIP Floodplain Administrator	Chapter80
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	No			
Growth Management Ordinances	Yes	Local	Land Use Board	Chapter 90
Site Plan Review Requirements	Yes	Local	Land Use Board	Chapter 90
Stormwater Management Ordinance	Yes	Local	Engineer	Chapter 119.1
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Engineer	Chapter 90
Natural Hazard Ordinance	Yes	Local	Land Use Board	Chapter 90-3
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local	Land Use	Carbonate Rock Area: Chapter 90-3 Geologic hazard: Chapter 90-3

Administrative and Technical Capability

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

Table 9.6-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Township
Mitigation Planning Committee	Yes	Committee formed for this HMP update
Environmental Board/Commission	Yes	Open Space Commission
Open Space Board/Committee	Yes	Township Committee
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	Yes	DPW
Mutual Aid Agreements	Yes	FIRE/EMS





Table 9.6-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Michael S. Finelli, P.E./KYLE
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Michael S. Finelli, P.E.
Planners or engineers with an understanding of natural hazards	Yes	Michael S. Finelli, P.E./KYLE
NFIP Floodplain Administrator	Yes	Zoning Officer, Michael S. Finelli, P.E.
Surveyor(s)	Yes	
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Michael S. Finelli, P.E.
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	OEM
Grant Writer(s)	Yes	Michael S. Finelli, P.E./OEM/FIRE
Staff with expertise or training in benefit/cost analysis	Yes	Engineer
Professionals trained in conducting damage assessments	Yes	OEM and Engineer

Fiscal Capability

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

Table 9.6-6. Fiscal Capabilities

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



Education/Outreach and Community Classifications

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

Table 9.6-7. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	NP	
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	4	2/6/15
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	8	10/12/14
Storm Ready	Yes		
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	No		

NP = Not participating

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 <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>



Self-Assessment of Capability

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

Table 9.6-8. Self-Assessment of Capability

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

Michael S. Finelli, P.E. (Zoning Officer)

Flood Vulnerability Summary

The Township does not maintain a formal list of properties that have been damaged by floods. During Hurricane Sandy, no structures were damaged. The FPA does make Substantial Damage estimates; however, none were made during Sandy. Currently, there are no properties interested in mitigation. If there was interest, the property owner and their flood insurance would be the funding sources.

Resources

The Township FPA is not the sole person assuming the responsibilities of floodplain administration. He has the support of technical staff in the office. NFIP administration services and functions provided by the FPA and staff include permit review, inspections, damages assessments and GIS. The Township also provides education and outreach to the community regarding flood hazards/risk that includes stormwater management brochures and public meeting presentations. The FPA indicated that there are currently no barriers to running an effective floodplain program and that he feels adequately supported and trained to fulfill his responsibilities. The FPA also stated that he would consider attending continuing education and/or certification training on floodplain management if offered.

Compliance History

The Township of Franklin is currently in good-standing with the NFIP and the most recent compliance audit was conducted in spring 2014.

Regulatory

The Township's floodplain management regulations/ordinances meets the FEMA and State minimum requirements; however, they do not exceed these requirements. The Township has local ordinances, plans and



programs that support floodplain management and meets the NFIP requirements. The planning and zoning boards consider efforts to reduce flood risk when they review variances.

Community Rating System

The Township of Franklin does not participate in the Community Rating System (CRS) program. However, the Township has considered joining and would attend a CRS seminar if offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

Planning

The Township is located in both the Highlands Planning Area (75%) and Preservation Area (25%). The goals of the 2011 Highlands Master Plan Element include to protect, restore and enhance the quality and quantity of surface and groundwater, to preserve extensive and contiguous areas of land in its natural state, to promote the conservation of water resource, and to promote brownfield remediation and redevelopment if possible. Many objectives are aimed to protect forest resources, open water and riparian areas, steep slopes, critical habitats, water resources and prime groundwater recharge areas. The Plan proposes to prohibit certain land uses in these areas in addition to land located above carbonate bedrock. The 2011 Highlands Environmental Resource Inventory identifies the location and extent of these natural resources and environmentally sensitive areas within the Township.

The 2008 Comprehensive Farmland Preservation details the current state of farmland preservation in the Township, as well as proposes preservation goals and other mitigation actions. At the time of the Plan's development, the Township had already preserved 2,038 acres of farmland; future goals were: 1 year target of 250 additional acres, 5 year target of additional 1,250 acres and 10 year target of 2,500 additional acres of farmland preservation. The Plan also proposed to include agricultural Best Management Practices in order to improve water quality in the Musconetcong River.

The 2006 Open Space and Recreation Plan aims to protect forested ridgelines, preserve natural areas, protect and improve surface and ground water resources and to preserve lands along the Pohatcong and Musconetcong River corridors. The Township has established an Open Space Trust Fund of 6.5 cents per \$100 of assessed value to fund open space acquisition projects. The Plan identifies preserving and restoring wetlands and river corridors as an important feature in flood management, pollution control and aquifer recharge.

The 2007 Natural Resource Inventory (NRI) identifies natural resources and environmentally sensitive areas to aid in the Land Use development decisions. The NRI also allows for informed decisions when planning within environmentally sensitive areas, such as steep slopes, erodible soils, floodplains, etc.

The Township also has a stormwater management plan, transportation plan, and fire plan. The Township does not have a Continuity of Operations (COOP) Plan but this will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.



Regulatory and Enforcement (Ordinances)

The Township has multiple ordinances pertaining to the mitigation of hazards. These ordinances include the NFIP Flood Damage Prevention Ordinance, a stormwater management ordinance, a flood damage prevention ordinance and a soil erosion and sediment control ordinance. Currently, the municipal codes and standards for floodplain management do not exceed the federal and state minimum requirements. This will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.

According to the Township's 2007 NRI, Franklin Township has specific regulations regarding development and construction grading on slopes, as included in the Land Use Ordinance (§90). This ordinance prohibits development in "critical areas", defined as having slopes of 20% or greater (§90-72C), and also defines the minimum buildable area in the Township as areas with slopes of less than 25%. The Highlands Act states there shall be no new development on slopes greater than 20% and places additional restrictions on slopes greater than 10%.

Prior to land use, zoning changes, or development permitting, the Township reviews the hazard mitigation plan and other hazard analysis to ensure consistent and compatible land use. Additionally, the Township encourages consideration of low occupancy, low-density zoning in hazard areas. The Township also limits development in high hazard areas throughout the municipality. The Township's permit review process includes addressing hazards. Hazard resistant construction standards are also incorporated into the design and location of projects. Rezoning procedures recognizes hazard areas as limits on zoning changes.

Operational and Administration

The Township has established a Land Use Board and Environmental Commission that aid in planning decisions to support the conservation and preservation of the Township's critical environmental features. The Township has also established a Public Safety Committee that is tasked with reviewing issues relative to public safety that have been raised by the residents of the Township, to review and make recommendations regarding the provision of emergency services to the Planning Board and Zoning Board of Adjustment, and to prepare the budget recommendations relative to all emergency groups.

The Township has provided protection to buildings and infrastructure in high hazard areas that includes flood proofing, elevation, etc.

The Township has plans and practices in place to protect natural resources.

At this time, employee job descriptions within the Township do not include hazard mitigation. This will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.

The Township does not have a community resilience committee or advisor; however, this will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.

Funding

The Township has access to the Open Space Trust Fund for open space acquisition projects, as well as access to state and federal funding sources. The Township's municipal/operating budget and capital improvement budget do not have line items for hazard mitigation. This will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.

Funding for mitigation projects identified in the hazard mitigation plan has been provided by the Township.



Education and Outreach

The Township provides general safety resources on its website, including stormwater education and testing your home for radon. The Township also has a public outreach program to inform its citizens on hazards within the community. The Township reaches out to local colleges and universities for technical assistance with natural hazard mitigation activities.

Training on best practices for hazard mitigation is not currently offered in the Township. This will be pursued in the next five years. Refer to Table 9.6-10 for details on this proposed mitigation action.

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9.6.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2011 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.

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Table 9.6-9. Past Mitigation Initiative Status

2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g, FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why
Franklin 1: Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.	Station Commander	No progress	0% complete No Funding	Include in 2016 HMP	This project has not been completed due to lack of funding. The Township will include this action in the 2016 HMP update.
Franklin 2: Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	WCOEM, TWP OEM	No progress	0% complete No Funding	Include in 2016 HMP	This project has not been completed due to lack of funding. The Township will include this action in the 2016 HMP update.

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Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

There are no additional mitigation projects/activities identified that have also been completed but were not identified in the previous mitigation strategy in the 2011 Plan.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Township participated in a mitigation action workshop in March 2015 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). In May 2015, the Township participated in a second workshop led by FEMA Region 2 and NJOEM and was provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.6-10 summarizes the comprehensive-range of specific mitigation initiatives the Township 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 9.6-11 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.6-10. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Franklin - 1	Provide training on best practices for hazard mitigation	N/A	All	4, 5	Township	High	Low	Local funding	Short Term (DOF)	Medium	EAP	PI
Franklin - 2	Prepare a Continuity of Operations Plan for the Township	N/A	All	1, 4, 6	Township	High	Medium	Local funding	Short Term (DOF)	Medium	LPR	PR
Franklin - 3	Create a community resilience committee and advisor within the Township	N/A	All	All	Township	High	Low	Local funding	Short Term (DOF)	Medium	LPR	PR
Franklin - 4	Include line items for projects from the mitigation plan in the municipal and capital improvement budgets	N/A	All	All	Township	High	Low	Local funding	Short Term (DOF)	Medium	LPR	PR
Franklin - 5	Enhance floodplain management standards to exceed FEMA and state minimum requirements	N/A	Flood, Severe Weather, Hurricane/Tropical Storm	1, 2	NFIP Floodplain Administrator/ Zoning Officer	High	Low	Local funding	Short Term (DOF)	Medium	LPR	PR
Franklin - 6	Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.	Existing	All	1, 2, 6	Township, Fire Dept., OEM	Medium	Medium	Grant funding with local cost share	Short Term (DOF)	High	SIP	PP
Franklin - 7	Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	N/A	All	All	Township	High	Low	Local funding	Short Term (DOF)	High	EAP	PI
Franklin - 8	Ensure continuity of operations at critical facilities. This includes the purchase and installation generators at critical facilities in the Township such as the municipal building, EOC, and emergency services facilities.	Existing	All	1, 2, 6	Township	High	Medium	FEMA HMA funding with local cost share	Short Term (DOF)	High	SIP	PP
Franklin - 9	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/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 and determine most cost-effective mitigation option.											





Table 9.6-10. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	Phase 2: Work with the property owners to implement selected action based on available funding and local match availability.											
	See above.	Existing	All		Engineering via NFIP FPA with NJOEM, FEMA support	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	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:

CRS	Community Rating System	N/A	Not applicable
DPW	Department of Public Works	NFIP	National Flood Insurance Program
FEMA	Federal Emergency Management Agency	NJDEP	New Jersey Department of Environmental Protection
FPA	Floodplain Administrator	NJOEM	New Jersey Office of Emergency Management
HMA	Hazard Mitigation Assistance	OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

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

Timeline:

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

Costs:

Where actual project costs have been reasonably estimated:

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

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

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.

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.





Costs:

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:

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 9.6-11. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Franklin - 1	Provide training on best practices for hazard mitigation	1	1	1	1	0	1	0	0	0	0	1	1	0	0	7	Medium
Franklin - 2	Prepare a Continuity of Operations Plan for the Township	1	1	1	1	0	1	0	0	0	1	1	1	0	1	9	Medium
Franklin - 3	Create a community resilience committee and advisor within the Township	1	1	1	1	0	1	0	0	0	0	1	1	0	0	7	Medium
Franklin - 4	Include line items for projects from the mitigation plan in the municipal and capital improvement budgets	1	1	1	1	0	1	0	0	0	0	1	1	0	0	7	Medium
Franklin - 5	Enhance floodplain management standards to exceed FEMA and state minimum requirements	1	1	1	1	0	1	0	1	0	1	1	1	0	0	9	Medium
Franklin - 6	Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.	1	1	1	1	1	1	1	0	1	1	1	1	1	1	13	High
Franklin - 7	Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
Franklin - 8	Purchase and install generators at critical facilities in the Township. This includes the municipal building, EOC, and emergency services facilities.	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
Franklin - 9	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High



Table 9.6-11. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	properties as a priority when applicable.																

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.

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9.6.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.6.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Franklin 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 Franklin has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.6.9 Additional Comments

None at this time.

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Figure 9.6-1. Township of Franklin Hazard Area Extent and Location Map 1

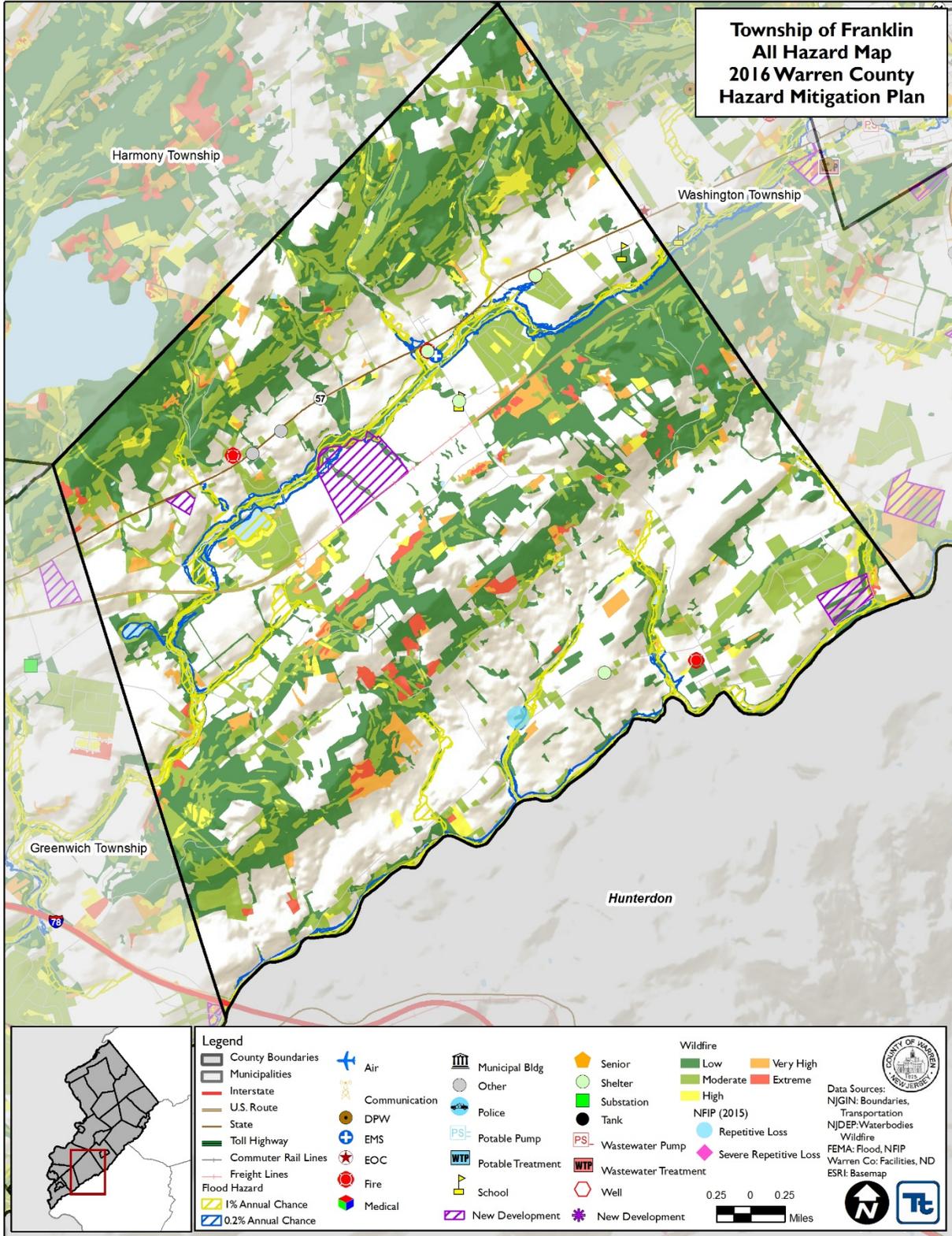
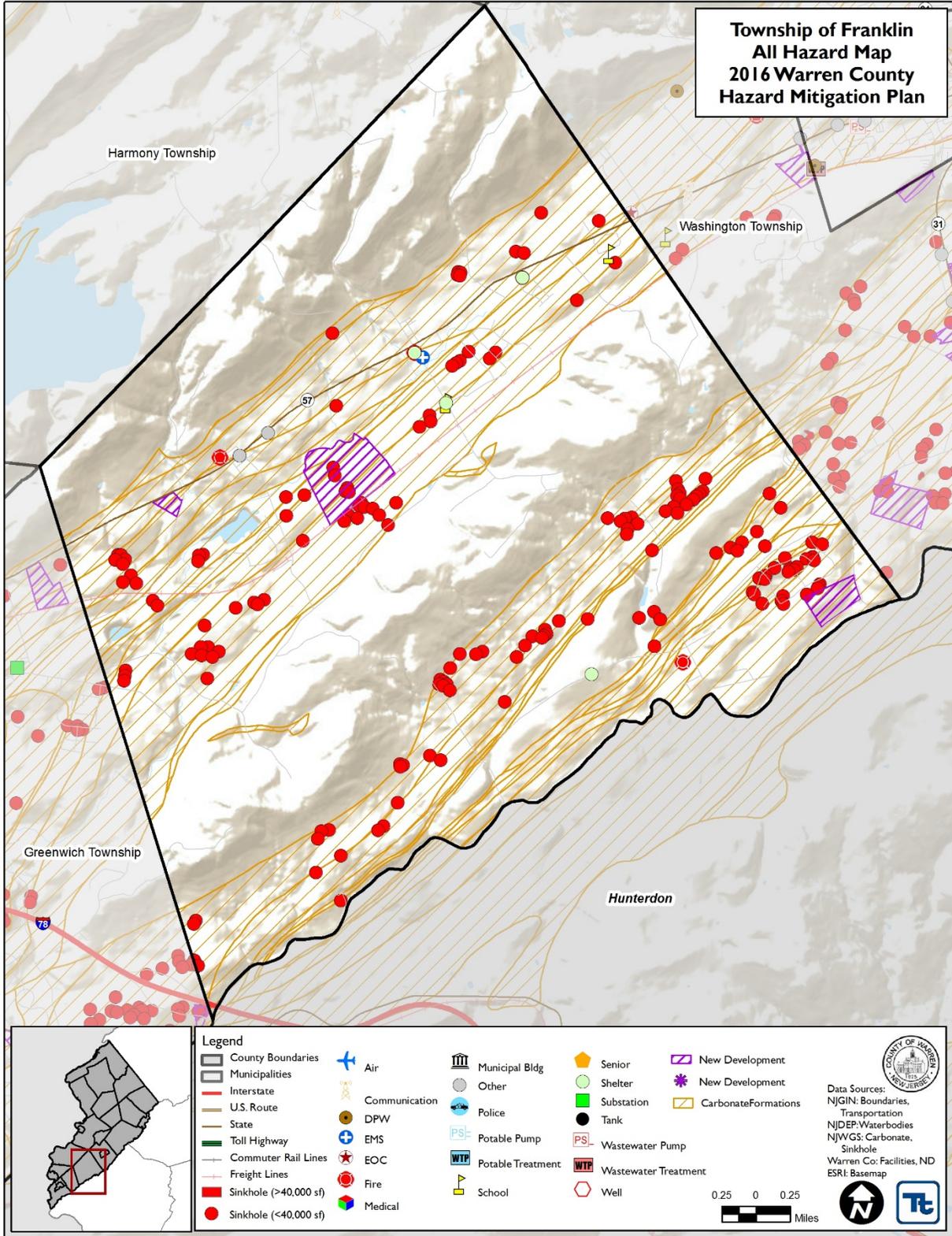




Figure 9.6-2. Township of Franklin Hazard Area Extent and Location Map 2





Action Number:

Franklin - 6

Mitigation Action/Initiative:

Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Potential damage and/or injury to personnel and property in the fire house
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Upgrade / reinforce the roof (if fully funded) 2. Evaluate roof for existing conditions/load bearing capabilities and install/construct minor improvements (if limited funding) 3. Existing roof to remain (if lack of funding)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.
Action/Project Category	SIP
Goals/Objectives Met	1, 2, 6
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	Substantial – personnel life/safety and physical property
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	Municipality, Fire, OEM
Local Planning Mechanism	Municipal
Potential Funding Sources	Grant funding & local
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Franklin - 6

Mitigation Action/Initiative: Retrofit roof to meet current standards for snow load on the area over the bays and kitchen at the Franklin Township Fire Department Station 2 building located on Second Street.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Local Champion	1	
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Action Number: Franklin - 8

Mitigation Action/Initiative: Ensure continuity of operations at critical facilities

Assessing the Risk	
Hazard(s) addressed:	All that may lead to power outages
Specific problem being mitigated:	Loss of power to critical facilities in the Township; these facilities are unable to continue their day-to-day and emergency operations
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Purchase and install generators at critical facilities in the Township. 2. Purchase portable generators – not feasible for long-term utility outages 3. Do nothing – current problem continues
Action/Project Intended for Implementation	
Description of Selected Action/Project	Ensure continuity of operations at critical facilities in the Township. This includes the purchase and installation generators at critical facilities in the Township. This includes the municipal building, EOC, and emergency services facilities.
Action/Project Category	SIP
Goals/Objectives Met	1, 2, 6
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium to High
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	OEM
Local Planning Mechanism	
Potential Funding Sources	FEMA HMA
Timeline for Completion	Short; depends on available funding
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Franklin - 8

Mitigation Action/Initiative: Ensure continuity of operations at critical facilities

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Grant funding is needed to implement this action
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Local Champion	1	
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	