



9.19 Town of Phillipsburg

This section presents the jurisdictional annex for the Town of Phillipsburg.

9.19.1 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
Victoria L. Kleiner, Acting Municipal Clerk 675 Corliss Avenue, Phillipsburg, NJ 08865 (908) 454-5500 ext. 309 vkleiner@phillipsburgnj.org	Lorraine Loudenberry, Assistant 675 Corliss Avenue, Phillipsburg, NJ 08865 (908) 454-5500 ext. 348 lloudenberry@phillipsburgnj.org

9.19.2 Municipal Profile

The Town of Phillipsburg is located along the Delaware River and in the New Jersey Highlands Region. The Town is found in southwestern Warren County and covers an area of 3.3 square miles. According to the U.S. Census, the 2010 population for Town of Phillipsburg was 14,950. The Town is bordered to the north by Lopatcong Township, to the south and east by Pohatcong Township, and to the west by the Delaware River and the State of Pennsylvania. The Town of Phillipsburg contains a mix of residential, commercial, industrial, and institutional establishments. The Delaware River, Lopatcong Creek and the Morris Canal are the major waterbodies found in Phillipsburg.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in section 9.X of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.19-1. 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					
Hillcrest Acres	Res	7	Frost Avenue Block 502 Lots 22.01-22.07		Completed
Known or Anticipated Development in the Next Five (5) Years					
Riverview at Delaware Station	Res.	448	Howard Street Block 2102 Lots 2 & 11		Planning Board
Ravenscroft Apartments	Res.	24	Fairview Avenue Block 205 Lot 2		Planning Board
Opus Investments, LLC	Comm.	9	State Hwy 22 & Roseberry Street Block 3201 Lots 1-3, 7.01-7.13, Block 3301 Lots 1, 4, 4.01, 5 & 6	None	Planning Board / (Distribution Centers)

* Only location-specific hazard zones or vulnerabilities identified.



9.19.3 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 at the municipal level, is presented in the table below. This summary is based on reference material or local sources. For further details on these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.19-2. 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	During Hurricane Irene, the Town's fire department and emergency management services were on constant duty for numerous storm-related calls. There are numerous road closures and power outages in the Town due to downed trees and wires. Infrastructure damage in the Town included: Riverside Way sewage lift station damage; Pohatcong sewer interceptor collapse; Kurland Alley storm sewer collapsed; and the aeration motor at the wastewater treatment plant was destroyed by flooding. The roof of the wastewater treatment plant was damaged. Damages to private properties included flooded basements, damaged roofs, and power outages. Public assistance was requested. Other costs to the Town included overtime for DPW employees.
September 28 – October 6, 2011	Remnants of Tropical Storm Lee	DR-4039	Yes	Tropical Storm Lee caused the Lopatcong Creek to flood and it impacted primary treatment units at the wastewater treatment plant. There was no other documented damage in the Town.
October 29, 2011	Severe Storm	DR-4048	Yes	During this event, the DPW had to remove debris throughout the Town.
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	During Hurricane Sandy, the Town's fire department and emergency management services were on constant duty for numerous storm-related calls. At least 50% of the Town p's roads were impassable due to downed trees and wires. The entire Town was without power for 48 hours. There was severe damage to the wastewater treatment plant. Traffic signals and controls were destroyed on South Main Street at the intersections of Union Square and McKean Street. Windows and computers were damaged at the municipal building and the roof was damaged at the Youth Corps building. Private property damage included damaged roofs, flooded basements, loss of power, and closed businesses. The Town requested public assistance. Other losses to the Town included overtime for DPW for debris removal.



9.19.4 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 Town of Phillipsburg. 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 Town of Phillipsburg.

Table 9.19 3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Dam Failure	Damage estimate not available	Occasional	24	Occasional
Drought	Damage estimate not available	Frequent	30	Frequent
Earthquake	100-Year GBS: \$0 500-Year GBS: \$485,336 2,500-Year GBS: \$7,415,535	Occasional	28	Medium
Flood	1% Annual Chance: \$31,721,200	Frequent	18	Medium
Geologic	RCV Exposed to Carbonate Rock Areas: \$1,247,190,788	Frequent	54	High
Hurricane	100-year MRP: \$230,691.00 500-year MRP: 2378486 Annualized: \$22,934.00	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Storm	100-Year MRP: \$230,691 500-year MRP: \$2,378,486 Annualized: \$22,934	Frequent	48	High
Severe Winter Storm	1% GBS: \$7,244,275 5% GBS: \$36,221,376	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$416,250	Occasional	16	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 Town of Phillipsburg.

Table 9.19-3. 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)
Phillipsburg, Town of	26	63	\$3,120,792	3	0	11

Source: FEMA Region 2, 2014

(1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 11/30/2014. Please note the total number of repetitive loss properties includes the severe repetitive loss properties. The number of claims represents claims closed by 11/30/14.

(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 is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

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.

Number of policies and claims and claims total exclude properties located outside County boundary, based on provided latitude and longitude.

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 9.19-4. Critical Facilities in the DFIRM 1% and 0.2% Annual Chance Flood Boundaries

Name	Municipality	Type	1% Boundary	0.2% Boundary
U.S. Gas (Union Square)	Phillipsburg, Town of	Gas Station		X

Source: Warren County, FEMA 2011

Other Vulnerabilities Identified by Municipality

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. Further, mitigation projects have been identified that may more specifically detail vulnerabilities in the community. There are no additional vulnerabilities identified at this time.

9.19.5 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 Town of Phillipsburg.

Table 9.19-5. 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	Planning Board	Chapter 555
Capital Improvements Plan	Yes	Local		
Floodplain Management / Basin Plan	Yes	Local	Inspections-Bldg Code Official	Chapter 318 Flood Plain Damage Prevention
Stormwater Management Plan	Yes	Local	Engineering	Chapter 535 Stormwater Management Rules
Open Space Plan	Yes	Local	Planning/ Recreation	Chapter 5
Stream Corridor Management Plan				
Watershed Management or Protection Plan				
Economic Development Plan	Yes	Local	Administration-EDC	Chapter 5-67
Comprehensive Emergency Management Plan	Yes	Local	OEM	Emergency OPS Plan
Emergency Response Plan	Yes	Local	OEM	Emergency OPS Plan
Post-Disaster Recovery Plan	Yes	Local	OEM	Emergency OPS Plan
Transportation Plan				
Strategic Recovery Planning Report				
Other Plans:				
Regulatory Capability				
Building Code	Yes	State & Local	Township	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes	Local	Planning Board	Chapter 625
Subdivision Ordinance	Yes	Local	Planning Board	Chapter 555
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Building/Zoning Inspector	Chapter 318, Adopted 7/5/2011
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local	Building/Zoning Inspector	N.J.A.C 7:13 Flood Hazard Area Control Act
Growth Management Ordinances				



Table 9.19-5. 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.)
Site Plan Review Requirements	Yes	Local	Planning	Chapter 510
Stormwater Management Ordinance	Yes	Local	Planning	Chapter 535
Municipal Separate Storm Sewer System (MS4)	Yes	Local	DPW/ Inspections	Chapter 538
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State	Division of Consumer Affairs	N.J.A.C. 13:45A-29.1
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Phillipsburg.

Table 9.19-6. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	Yes	Office of Emergency Management
Environmental Board/Commission	Yes	Planning Board/ Env Commission
Open Space Board/Committee	Yes	Recreation
Economic Development Commission/Committee	Yes	Economic Development Committee
Maintenance Programs to Reduce Risk	Yes	Inspections
Mutual Aid Agreements	Yes	
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Engineering
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Engineering
Planners or engineers with an understanding of natural hazards	Yes	Engineering
NFIP Floodplain Administrator	Yes	Inspections –Building Code Official
Surveyor(s)	Yes	Engineering
Personnel skilled or trained in GIS and/or Hazus-MH applications	No	
Scientist familiar with natural hazards	No	





Table 9.19-6. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Emergency Manager	Yes	Office of Emergency Management
Grant Writer(s)	Yes	Engineering / Office of Emergency Management
Staff with expertise or training in benefit/cost analysis	Yes	Engineering
Professionals trained in conducting damage assessments	No	

Fiscal Capability

The table below summarizes financial resources available to the Town of Phillipsburg.

Table 9.19-7. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community development Block Grants (CDBG, CDBG-DR)	
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	
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	Yes
Open Space Acquisition Funding Programs	No
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 Town of Phillipsburg.

Table 9.19-8. 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	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	3	2012
Storm Ready	No	NP	N/A
Firewise	No	NP	N/A
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No		





Table 9.19-8. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Public Education Program/Outreach (through website, social media)	Yes	Website	
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 Town of Phillipsburg’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.19-9. 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 Limited financial resources. Need to identify potential funding sources.		
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.	X Limited staff. Many positions part-time due to budgetary constraints.		





National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Kevin Duddy, Building Code Official

Flood Vulnerability Summary

The Town does not maintain lists or inventories of properties damaged by floods. There were no structures damaged during Hurricane Sandy. The FPA does not make Substantial Damage estimates in the Town. There are currently no properties interested in mitigation (elevation or acquisition).

Resources

The FPA is not the sole person assuming the responsibilities of floodplain administration. NFIP administrative services provided by the FPA and staff include permit review, inspections, damage assessments, and record keeping. The Town currently does not provide any education or outreach regarding flood hazard/risk or flood risk reduction. The FPA indicated that there are no barriers to running an effective floodplain management program and that he feels adequately supported and trained. The FPA would consider attending continuing education and/or certification training of floodplain management if it were offered.

Compliance History

The Town is currently in good-standing with the NFIP; however, the FPA is unaware of any compliance audits conducted.

Regulatory

The Town's floodplain management regulations/ordinances do not exceed the FEMA and state minimum requirements. However, there are other local ordinances that support floodplain management and includes Chapter 318 (Flood Damage Prevention) of the Town code. The Town has considered joining CRS and would attend a CRS seminar if offered.

Community Rating System

The Town of Phillipsburg does not participate in the Community Rating System (CRS) program.

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 2013 Master Plan Reexamination determined that the goals of the 2004 Reexamination and Update remained primary goals for the Town. Identifying and preserving environmental features through preparing design standards and regulations for development, developing a Recreation and Open Space Plan, and filing for ROSI with the Green Acres Program for funding eligibility were objectives to further to purpose of the Master Plan. The Plan also included recommendations for subsequent updates, which included placing an Open Space and Recreation Plan Element and Conservation Element as priority elements and potentially preparing and adopting critical area ordinances for stream corridors, steep slopes, carbonate bedrock, and wellhead protection areas.



The 2013 Riverfront Redevelopment Plan and Phillipsburg Commerce Park Redevelopment Plan both incorporate the goals and objectives of the 2013 Master Plan Reexamination into the design proposals for the area. Design standards for riverfront redevelopment will protect the steep slopes, stream, canal and river corridors, and rock outcroppings within the redevelopment area. Both redevelopments will identify, remediate and reuse contaminated lands from past industrial activity.

The town of Phillipsburg in Warren County has 2,133 acres in the Planning Area of the Highlands Region (where conformance is entirely voluntary). The municipality submitted a Petition for Plan Conformance that was approved by the Highlands Council on October 13, 2011. The 2012 Highlands Environmentally Resource Inventory identifies the location and extent of natural resources and environmentally sensitive areas, which include the areas identified for critical area ordinances in the 2013 Master Plan Reexamination.

The Town is currently developing a Continuity of Operations (COOP) Plan which will integrate mitigation. Additionally, the Town has a fire plan that has a risk assessment and vulnerable areas identified.

Regulatory and Enforcement (Ordinances)

The Town has multiple ordinances pertaining to the mitigation of hazards. These ordinances include the NFIP Flood Damage Prevention Ordinance, a stormwater management ordinance, a hazardous materials cleanup ordinance, and a snow and ice emergencies ordinance.

The Town encourages consideration of low occupancy, low-density zoning in hazard areas, when practical. The Town also limits development in the high hazard areas. The permit review process for the municipality includes addressing of hazards. Hazard resistant construction standards are also incorporated into the design and location of projects within the Town.

Operational and Administration

The Town provides training on the following topics: best practices for hazard mitigation, grant applications, and hazard identification.

Funding

The Town's capital improvement budget providing funding to protect buildings and/or infrastructure in high hazard areas.

Education and Outreach

The Town posts upcoming community events and advisories on its website's homepage. The Office of Emergency Management provides information from FEMA to residents on how to prepare for emergency events and what to do after an event.

9.19.6 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.



Table 9.19-10. Past Mitigation Initiative Status

2011 Mitigation Action	Responsible Agency	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
Phillipsburg 1: Acquisition / Elevation of two Repetitive Loss (RP) properties on Broad Street.	OEM Coordinator	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	1. Work with Warren County OEM to Identify Properties 2. Pursue grant opportunities for Acquisition/ Elevation of Properties.
Phillipsburg 2: Acquisition / Elevation of one RL property on Center Street.	OEM Coordinator	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	1. Work with Warren County OEM to Identify Property. 2. Pursue grant opportunities for Acquisition/ Elevation of Property.
Phillipsburg 3: Acquisition / Elevation of one RL property on North Main Street.	OEM Coordinator	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	1. Work with Warren County OEM to Identify Property. 2. Pursue grant opportunities for Acquisition/ Elevation of Property.
Phillipsburg 4: Flood-proof the Mallinckrodt Baker building located on Broad Street.	Facility Administrator	Choose an item.	1. 2. 3.	Choose an item.	1. 2.
Phillipsburg 5: Elevate utilities above flood level at the Waste Water Treatment Plant located on South Main Street.	Town Administrator	Complete	This project has been completed.	Discontinue	This project has been completed; therefore, it will not be included in the 2016 HMP update.
Phillipsburg 6: Extend 800 feet to retaining wall along Delaware River and Riverside way.	Department of Public Works Supervisor	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	There has been no progress on this project due to budget constraints. The Town will include this action in the 2016 HMP update.
Phillipsburg 7: Installation of duckbill valves/flapper valves on Lopatcong Creek.	Department of Public Works Supervisor	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	There has been no progress on this project due to budget constraints. The Town will include this action in the 2016 HMP update.



2011 Mitigation Action	Responsible Agency	Status (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g, FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why
Phillipsburg 8: Upgrade and improvement storm water management system with addition of check valves.	Department of Public Works Supervisor	No Progress	1. 0% 2. Budget constraints have prevented any action. 3. Need to identify potential funding source (grant).	Include in 2016 HMP	There has been no progress on this project due to budget constraints. The Town will include this action in the 2016 HMP update.
Phillipsburg 9: Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	WCOEM, OEM Coordinator	In Progress	This is currently being conducted in the Town – using Town website to post important information and OEM providing information to residents.	Include in 2016 HMP	This is an ongoing action and will be included in the 2016 HMP update.

DRAFT



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 County hosted a mitigation action workshop in March 2015 where the following FEMA publications were provided to all plan participants to use as a resource as part of the municipal 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 9.19-11 summarizes the comprehensive-range of specific mitigation initiatives the Town 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.’ Table 9.19-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.19-11. 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
Phillipsburg-1 (LOI #904)	Support the continuity of operations at critical facilities. At this time the following is identified: Purchase generators for emergency services – firehouse #94	Existing	All	1, 2, 6	Town	Medium	High	FEMA HMA with local cost share	Short Term / DOF	Medium	SIP	PP
Phillipsburg-2 (old Phillipsburg-1, 2 and 3)	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. Phase 2: Work with the property owners to implement selected action based on available funding and local match availability.	Existing	Flood	1, 2	Town Council	High – removal of RL properties	High	FEMA HMA; Blue Acres or another funding source	Short Term	Medium	SIP	PP
Phillipsburg-3 (old Phillipsburg-6)	Extend 800 feet to retaining wall along Delaware River and Riverside way.	Existing	Flood, Severe Weather	2	Department of Public Works Supervisor	Medium	Medium to High	Federal or State grant funding with local cost share	Short Term / DOF	Medium	SIP	PP
Phillipsburg-4 (old Phillipsburg-7)	Installation of duckbill valves/flapper valves on Lopatcong Creek.	Existing	Flood, Severe Weather	2	Department of Public Works Supervisor	Medium	Medium to High	FEMA HMA grant funding with local cost share	Short Term / DOF	Medium	SIP	PP
Phillipsburg-5 (old Phillipsburg-8)	Upgrade and improvement storm water management system with addition of check valves.	Existing	Flood, Severe Weather	2	Department of Public Works Supervisor	Medium	Medium to High	FEMA HMA grant funding with local cost share	Short Term / DOF	Medium	SIP	PP
Phillipsburg-6 (old Phillipsburg-9)	Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	N/A	All	All	WCOEM, OEM Coordinator	High	Low	Municipal Budget	Ongoing	High	EAP, LPR	PI, PR



Table 9.19-11. 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
Phillipsburg-7	Restoration of Warren Street Detention Basin to increase available storage capacity for stormwater runoff from State Highway Route 22.	N/A	Flood	1, 2	NJDOT/ NJDEP, Town Council	See Action Worksheet	High	FEMA HMA grant Funding	Short Term	High	SIP	PP
Phillipsburg-8	Install backflow preventers at key locations subject to frequent flooding	N/A	Flood	1, 2	Town Council	See Action Worksheet	High	FEMA HMA grant Funding	Short Term	High	SIP	PP
Phillipsburg-9	Review the County HMP and other hazard analysis prior to land use, zoning changes or development permitting and while updating any ordinances within the Town.	N/A	All	3, 4, 5	Town Council	Medium	Low	Municipal Budget	Ongoing	Medium	LPR	PR
Phillipsburg-10	Review and incorporate the County HMP into the next master / comprehensive plan update for the Town.	N/A	All	3, 4, 5	Town Council	Medium	Low	Municipal Budget	Ongoing	Medium	LPR	PR
Phillipsburg-11	Include a line item in the Capital Improvement Plan and Municipal/Operating Budget for mitigation project funding in the Town.	N/A	All	3, 4, 5	Town Council	Medium	Low	Municipal Budget	Ongoing	Medium	LPR	PR

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
 DPW Department of Public Works
 FEMA Federal Emergency Management Agency
 FPA Floodplain Administrator
 HMA Hazard Mitigation Assistance

N/A Not applicable
 NFIP National Flood Insurance Program
 NJDEP New Jersey Department of Environmental Protection
 NJOEM New Jersey Office of Emergency Management
 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.
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 9.19-12. 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
Phillipsburg-1 (LOI #904)	Support the continuity of operations at critical facilities - Purchase generators for emergency services – firehouse #94	1	1	1	1	1	1	0	0	0	1	1	1	0	0	9	High
Phillipsburg-2 (old Phillipsburg-1, 2 and 3)	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.	0	1	1	1	1	1	-1	1	0	1	0	0	1	0	7	Medium
Phillipsburg-3 (old Phillipsburg-6)	Extend 800 feet to retaining wall along Delaware River and Riverside way.	1	1	1	1	1	0	0	0	0	1	1	1	0	0	8	Medium
Phillipsburg-4 (old Phillipsburg-7)	Installation of duckbill valves/flapper valves on Lopatcong Creek.	1	1	1	1	1	0	0	0	0	1	1	1	0	0	8	Medium
Phillipsburg-5 (old Phillipsburg-8)	Upgrade and improvement storm water management system with addition of check valves.	1	1	1	1	1	0	0	0	0	1	1	1	0	0	8	Medium
Phillipsburg-6 (old Phillipsburg-9)	Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
Phillipsburg-7	Restoration of Warren Street Detention Basin to increase available storage capacity for stormwater runoff	1	1	1	1	1	1	-1	1	0	1	0	1	1	0	9	High





Table 9.19-12. 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
	from State Highway Route 22.																
Philipsburg-8	Install backflow preventers at key locations subject to frequent flooding	1	1	1	1	1	1	-1	1	0	1	0	1	1	1	10	High
Philipsburg-9	Review the County HMP and other hazard analysis prior to land use, zoning changes or development permitting and while updating any ordinances within the Town.	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	Medium
Philipsburg-10	Review and incorporate the County HMP into the next master/comprehensive plan update for the Town.	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	Medium
Philipsburg-11	Include a line item in the Capital Improvement Plan and Municipal/Operating Budget for mitigation project funding in the Town.	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	Medium

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



9.19.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.19.8 Hazard Area Extent and Location

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

9.19.9 Additional Comments

None at this time.

DRAFT



Figure 9.19-1. Town of Phillipsburg Hazard Area Extent and Location Map 1

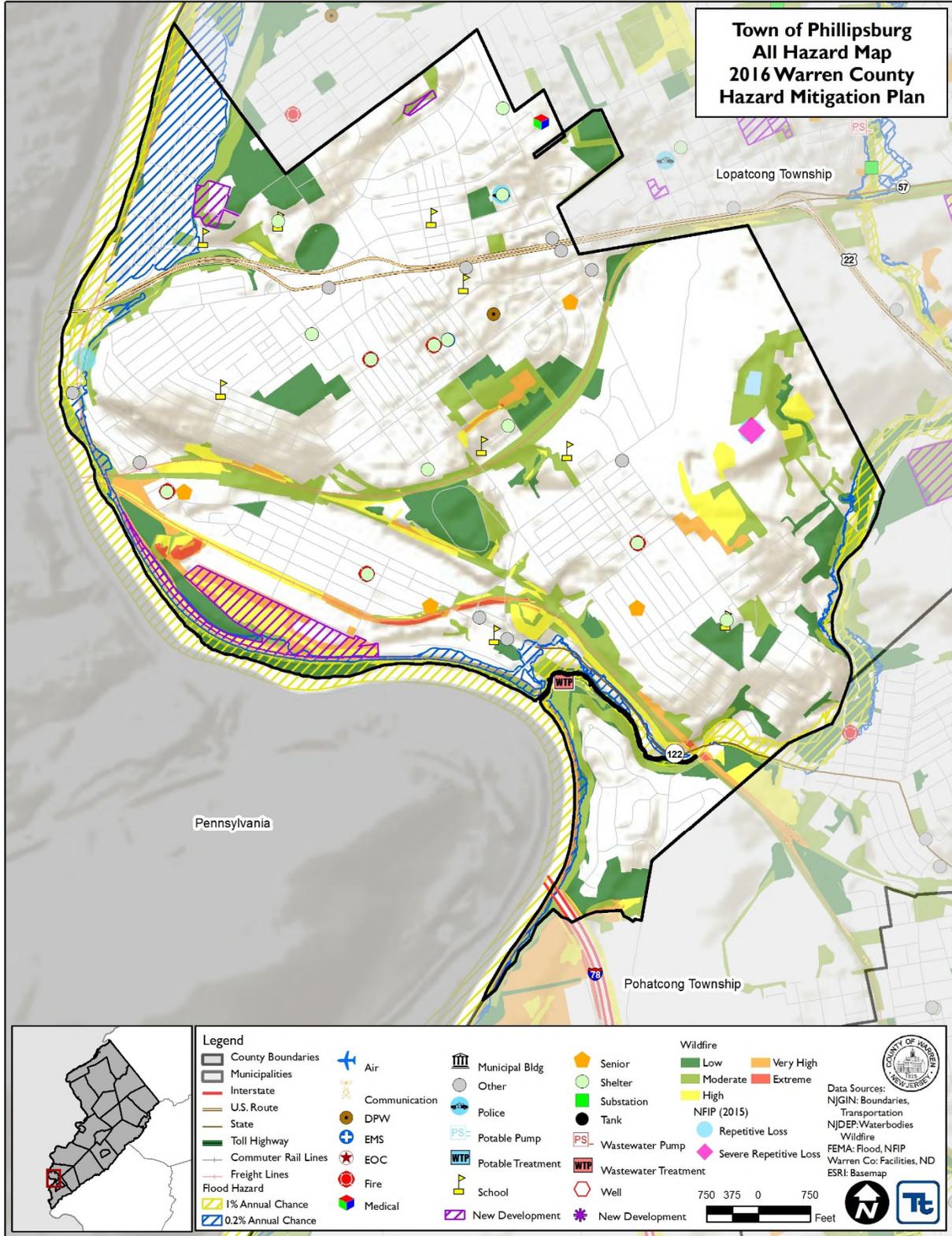
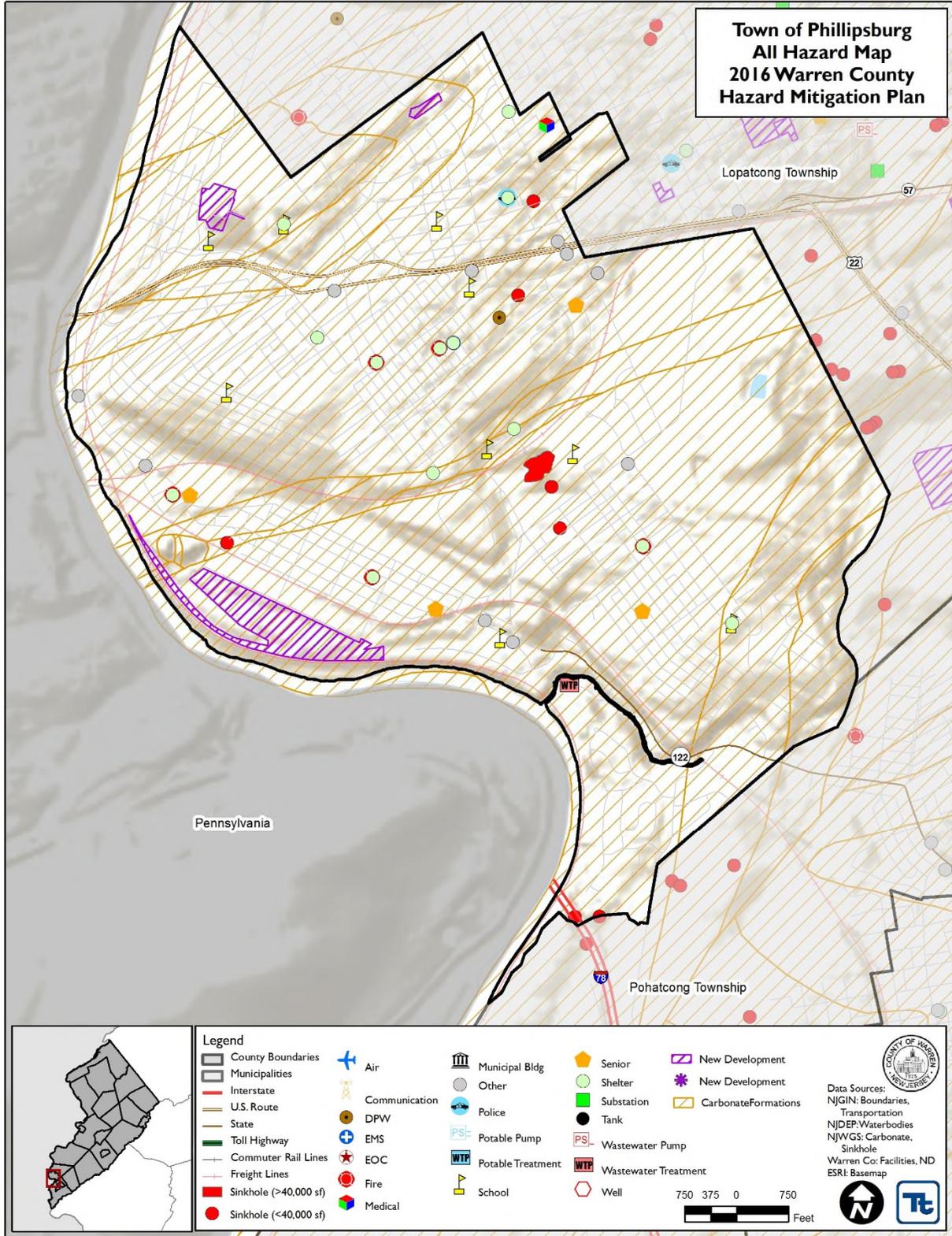




Figure 9.19-2. Town of Phillipsburg Hazard Area Extent and Location Map 2





Action Number: Phillipsburg-1

Mitigation Action/Initiative: Support the continuity of operations at critical facilities - Purchase generators for emergency services

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Loss of power to critical facilities in the Town
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Purchase generators for emergency services purposes – firehouse #94 2. Do nothing – current problem continues 3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support the continuity of operations at critical facilities - Purchase generators for emergency services purposes for two firehouses on Main 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)	Medium
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible/Lead Agency/Department	Town
Local Planning Mechanism	Emergency Operations
Potential Funding Sources	HMGP with local cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Phillipsburg-1

Mitigation Action/Initiative: Support the continuity of operations at critical facilities - Purchase generators for emergency services

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Allow continuity of operations for emergency response during power outages
Property Protection	1	Allow emergency response to function properly during power outages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	Medium	



Action Number: Phillipsburg-3

Mitigation Action/Initiative: Extend 800 feet to retaining wall along Delaware River and Riverside Way

Assessing the Risk	
Hazard(s) addressed:	Flood, Sever Weather
Specific problem being mitigated:	Flooding of Delaware River on Riverside Way
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Extend 800 feet to retaining wall along Delaware River and Riverside Way
	2. No Action
	3. No other feasible actions/projects were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Extend 800 feet to retaining wall along Delaware River and Riverside Way
Action/Project Category	SIP
Goals/Objectives Met	2
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium to High
Priority*	Medium
Plan for Implementation	
Responsible/Lead Agency/Department	DPW Supervisor
Local Planning Mechanism	Stormwater Management
Potential Funding Sources	Grant funding with local cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Phillipsburg-3

Mitigation Action/Initiative: Extend 800 feet to retaining wall along Delaware River and Riverside Way

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect those residents that live in the area of this proposed project
Property Protection	1	Protect structures in the area of the proposed project
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Severe Weather, Flood
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	8	
Priority (High/Med/Low)	Medium	



Action Number: Philipsburg-4

Mitigation Action/Initiative: Installation of duckbill valves/flapper valves on Lopatcong Creek.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather
Specific problem being mitigated:	Flooding of Lopatcong Creek
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Installation of duckbill valves/flapper valves on Lopatcong Creek.
	2. No Action
	3. No other feasible actions/projects were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Installation of duckbill valves/flapper valves on Lopatcong Creek.
Action/Project Category	SIP
Goals/Objectives Met	2
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium to High
Priority*	Medium
Plan for Implementation	
Responsible/Lead Agency/Department	DPW Supervisor
Local Planning Mechanism	Stormwater Management
Potential Funding Sources	Grant funding with local cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Phillipsburg-4

Mitigation Action/Initiative: Installation of duckbill valves/flapper valves on Lopatcong Creek.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect those residents that live in the area of this proposed project
Property Protection	1	Protect structures in the area of the proposed project
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Severe Weather, Flood
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	8	
Priority (High/Med/Low)	Medium	



Action Number: Phillipsburg-5

Mitigation Action/Initiative: Upgrade and improvement storm water management system with addition of check valves.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather
Specific problem being mitigated:	Stormwater management system in the Town needs to be updated
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Upgrade and improvement storm water management system with addition of check valves. 2. No Action 3. No other feasible actions/projects were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Upgrade and improvement storm water management system with addition of check valves.
Action/Project Category	SIP
Goals/Objectives Met	2
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium to High
Priority*	Medium
Plan for Implementation	
Responsible/Lead Agency/Department	DPW Supervisor
Local Planning Mechanism	Stormwater Management
Potential Funding Sources	Grant funding with local cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Phillipsburg-5

Mitigation Action/Initiative: Upgrade and improvement storm water management system with addition of check valves.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect those residents that live in the area of this proposed project
Property Protection	1	Protect structures in the area of the proposed project
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Severe Weather, Flood
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	8	
Priority (High/Med/Low)	Medium	



Action Number: Phillipsburg-7

Mitigation Action/Initiative: Restoration of Warren Street Detention Basin

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Inadequate storage for stormwater runoff generated by State Highway Route 22. Sedimentation due road salt & debris has reduced capacity significantly which increases potential for flooding.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Excavation of basin floor to restore original cross section.
	2. Sediment removal and restoration of permanent vegetation
	3. No Action
Action/Project Intended for Implementation	
Description of Selected Action/Project	Excavation of basin floor to restore original cross section.
Action/Project Category	Structure/ Infrastructure Project (SIP)
Goals/Objectives Met	1, 2
Applies to existing and/or new development; or not applicable	N/A
Benefits (losses avoided)	Flooding of Warren Street Potential closure of Phillipsburg Middle School (adj to basin) Impact on Norfolk Southern Railroad (>\$100,000)
Estimated Cost	\$250,000
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	Town Council
Local Planning Mechanism	Town Council - Resolution
Potential Funding Sources	Grant funding necessary.
Timeline for Completion	Short Term – Immediate need due to highway runoff. Funding must be secured before implementation.
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Philipsburg-7

Mitigation Action/Initiative: Restoration of Warren Street Detention Basin

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Warren Street and neighboring residential properties would benefit from the additional storage afforded once basin was restored to original capacity.
Property Protection	1	Warren Street, the Phillipsburg Middle School and neighboring residential properties.
Cost-Effectiveness	1	The restoration of this basin would be a long-term benefit for this area. The additional storage would reduce the frequency of flooding and washouts both to Warren Street and downstream properties.
Technical	1	Providing the additional storage would be a long-term solution for this area of Town.
Political	1	The Mayor and Council have been working with NJDOT trying to resolve this ongoing issue.
Legal	1	The Basin is located on property belonging to the Board of Education. The Board of Education has an access and maintenance agreement with the Town of Phillipsburg concerning this basin.
Fiscal	-1	The Town must secure a grant in order for this project to move forward. The materials deposited within the basin is primarily road salts and other debris from the state highway.
Environmental	1	The sediment may require NJDEP approval for disposal due to the road salt and petroleum by-products common to stormwater runoff from roads.
Social	0	This project will only benefit the surrounding neighborhoods.
Administrative	1	Town Engineer would oversee the implementation of the grant.
Multi-Hazard	0	The action would address flooding only.
Timeline	1	The project would be completed shortly after a grant could be secured for funding.
Local Champion	1	Flood Plain Coordinator, Town Engineer
Other Community Objectives	0	The benefits would be seen by the existing property owners adjacent to this basin.
Total	9	
Priority (High/Med/Low)	High	



Action Number: Phillipsburg-8

Mitigation Action/Initiative: Installation of Backflow Preventers

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Flooding due to backwater from the Delaware River along riverside Way, North Main Street and Broad Street
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Install backflow preventers at key locations subject to frequent flooding
	2. No Action
	3. No other feasible actions/projects were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Install backflow preventers at key locations
Action/Project Category	Structure/ Infrastructure Project (SIP)
Goals/Objectives Met	1, 2
Applies to existing and/or new development; or not applicable	N/A
Benefits (losses avoided)	Flooding of Riverside Way, Municipal Parking Lot, N Main Street & Broad Street; Potential closure of Sanitary Pump Station adjacent to river; Impact on Norfolk Southern Railroad (>\$100,000)
Estimated Cost	\$300,000
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	Town Council
Local Planning Mechanism	Town Council - Resolution
Potential Funding Sources	Grant funding necessary.
Timeline for Completion	Short Term – Immediate need due to highway runoff. Funding must be secured before implementation.
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Phillipsburg-8

Mitigation Action/Initiative: Installation of Backflow Preventers

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Prevent flooding & shut-down of sanitary pump station
Property Protection	1	Sanitary pump station, municipal roadways and Norfolk Southern Railroad
Cost-Effectiveness	1	Sanitary pump station and Riverside Way have been impacted by recent flood events. Equipment at pump station remains vulnerable to future events.
Technical	1	Prevents back up of flood waters when Delaware River floods.
Political	1	Council has previously directed OEM Manager to pursue funding. Attempts have been unsuccessful.
Legal	1	Work would take place in town right-of-ways and easements.
Fiscal	-1	The Town must secure a grant to move forward with this measure.
Environmental	1	No environmental impacts, backflow preventers installed on existing infrastructure.
Social	0	Positive impact on Town and neighboring commercial properties.
Administrative	1	Grant would be supervised by Town's consulting engineer
Multi-Hazard	0	Action addresses flooding hazard only.
Timeline	1	If grant can be obtained, work could be completed within 5-year timeframe.
Local Champion	1	OEM Coordinator and Flood Plain Coordinator have both been actively pursuing funding for this measure.
Other Community Objectives	1	Reduce flooding potential for neighboring commercial interests and municipal parking lot which serves public during town events.
Total	10	
Priority (High/Med/Low)	High	