

Lehigh Township, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Municipal Profile

Lehigh Township is a largely rural township located in the northwest corner of Northampton County. It encompasses an area of 29.9 square miles, and has an approximate population of 10,526 (2010 Census). The township is bordered by Moore Township to the east, Allen Township to the south, North Whitehall Township (Lehigh County) to the south, Walnutport Borough, Washington Township (Lehigh County), and Slatington Borough (Lehigh County) to the west, and Carbon County to the north.

Lehigh Township is bordered to the west and south by the Lehigh River. The Bertsch Creek flows southwest from near the intersection of PA Routes 248 and 946 to the Lehigh River south of Walnutport. In addition, the Indian Creek flows southward out of the township from the Indian Trail Park in the southern portion of the township. The Hokendauqua Creek enters the township from the east just south of PA Route 248, and then turns south out of the township.

PA Route 145 (Riverview Drive) crosses into Lehigh Township at Treichlers, and runs north-south along the Lehigh River until joining PA Route 248 (Lehigh Drive) in the northwest corner of the township. PA Route 248 runs northwest-southwest from there to the southeastern part of the township before entering Moore Township. PA Route 946 (Mountain View Drive) enters the northern part of the township from Moore Township and travels west to end in Walnutport. Other major east-west roads include Timberline Drive in the north, and Dogwood Road that travels southwest-northeast from PA Route 946 east of Danielsville to Cherryville, where it meets Blue Mountain Drive, which runs north-south from Treichlers to Danielsville.

Municipal Participation

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

Scott Fogel, Police Chief

Role: Hazard Identification, Public Awareness

Frank Zamadics, Public Works Director

Role: Hazard Identification, Resolution

Richard Hildebrand, Fire Chief

Role: Public Awareness, Hazard Identification

Scott Rehrig, Emergency Management Coordinator

Role: Hazard Identification, Community Involvement, Public Awareness

Elizabeth Gehman, Zoning Officer / Floodplain Administrator

Role: Ordinance Overview

Alice Rehrig, Manager

Role: Hazard Identification, Resolution, Project Coordinator

2. Identify community stakeholders such as; neighborhood groups, religious groups, major employers / businesses, etc., that will be informed and / or involved in the planning process and describe how they will be involved.

Northampton Area School District

Carbon Lehigh Intermediate Unit

Livengood Excavators

3. Describe how the public **will be engaged** in the current planning process examples, newsletters, social media, etc., **and how they were engaged** since the 2013 Hazard Mitigation Plan.

Updates on Township Website

Newsletters

Police Department Facebook

Emergency Management Coordinator attended community events to promote preparedness

Information has been included on the Township website

An Emergency Management Facebook page has been created as a method of communication for information and emergencies.

Compliance with the National Flood Insurance Program (NFIP)

Topic	Identify source of information, if different from the one listed.	Additional Comments
1. Staff Resources		
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	No
Is floodplain management an auxiliary function?	Community FPA	No
Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	Community FPA	When application for permits in the area of a stream are received, the NFIP maps are checked, if close to flood plain, an Engineering Study is required and reviewed by the Township Engineer.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	Expenses associated with Emergency Reviews.
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Yes
Are there any outstanding compliance issues (i.e., current violations)?		No
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		CAC when developing Floodplain Ordinance
Is a CAV or CAC scheduled or needed?		No
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Paper maps are available for public viewing.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Meet regulations
Describe the permitting process	Community FPA, State, FEMA NFIP	Application provides engineering study. Township Engineer reviews then permits are issued if appropriate.
4. Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	
How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been?	FEMA NFIP or Insurance Specialist	
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	

Compliance with the National Flood Insurance Program (NFIP) – *continued*

Topic	Identify source of information, if different from the one listed.	Additional Comments
5. Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov)	N/A
What categories and activities provide CRS points and how can the Class be improved?		N/A
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A

Community Assets

Community assets are defined to include anything that is important to the character as well as the function of a community, and can be described in four categories, they are; people, economy, natural environment and built environment. Please identify the community assets and location under each category.

1. People

- Concentrations of vulnerable populations such as the elderly, physically or mentally disabled, non-English speaking, and the medically or chemically dependent.

Liza's House
 Pond View Manor
 Hope Springs Hope Lutheran Senior Center

- Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

Bethany Wesleyan Church	Teddy Bear Day Care
Woodstone Lodge	Becky's Drive-In Theater
Lehigh Elementary School	Lorah's Farm (tractor pulls)

Community Assets – *continued*

2. Economy

Major employers, primary economic sectors such as agriculture and commercial centers where losses would have a severe impact on the community.

Carbon Lehigh Intermediate Unit
Livengood Excavators

3. Natural Environment

Those areas / features that can provide protective functions that reduce the magnitude of hazard events such as, wetlands or riparian areas, and other environmental features important to protect.

Lehigh River	Blue Mountain (forest)
Indian Creek	Appalachian Trail
Bertsch Creek	

4. Built Environment

- Existing structures such as, concentrations of buildings that may be more vulnerable to hazards based on location, age, construction type and / or condition of use.

Lehigh Township Historical Society Building

- Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.

Lehigh Township Municipal Authority water system & sewage system
Bethlehem Water Treatment Plant
Conrail Train Service
Heritage Village – private water system

- High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.

Bethlehem Water Treatment Plant
Conrail Train Service – hauling of hazardous materials

Community Assets – *continued*

- Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.

Lehigh Township Municipal Building
Lehigh Township Police Station
Lehigh Township Fire Company

Lehigh Township Elementary School
Bethany Wesleyan Church (shelter)

- Cultural / historical resources such as, museums, parks, stadiums, etc.

Lehigh Township Historical Society Building
Indianland School House

Capability Assessment

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Comprehensive Plan	X	8/4/1999	X						Currently under review
	Capital Improvement Plan	X	11/2016							
	Economic Development Plan									
	Continuity of Operations Plan									
	Stormwater Management Plan / Ordinance	X	3/8/2016							
	Open Space Management Plan (or Parks/Rec., Greenways Plan)									
	Natural Resource Protection Plan									
	Transportation Plan									
	Historic Preservation Plan									
	Floodplain Management Plan	X	7/8/2014		Township		+			
	Farmland Preservation									
	Evacuation Plan									
	Disaster Recovery Plan									
	Hazard Mitigation Plan	X	11/2018		Lehigh Valley Planning Commission, County Emergency Management			N/A		

Capability Assessment – continued

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Emergency Operations Plan	X	1/2019		Township & Emergency Management Coordinator		+			
	Zoning Regulations	X	4/3/2002		Township					Updates to several sections of the ordinance.
	Floodplain Regulations	X	7/8/2014		Township		+			
	NFIP Participation									
	Building Code	X	7/5/2004		State					
	Fire Code									
	Other									

Capability Assessment – *continued*

Capability	✓ Staff ✓ Personnel ✓ Resources			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
2. Administrative & Technology	Planners (with land use / land development knowledge)	X		Planning, Zoning			Volunteer Planning Commission & LVPC
	Planners or engineers (with natural and / or human-caused hazards knowledge)	X					Appointed Engineer
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	X					Appointed Engineering Firm
	Emergency Manager	X					Volunteer with Local EMC Training Firm
	Floodplain administrator / manager	X		Zoning	Yes		
	Land surveyors	X					Appointed by Engineering Firm
	Staff familiar with the hazards of the community	X		Public Works			
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program		X				
	Grant writers or fiscal staff to handle large / complex grants		X				
	Other						

Capability Assessment – continued

Capability				Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
3. Financial Resources	Capital improvement programming		X				
	Community Development Block Grants (CDBG)		X		No longer eligible.		
	Special purposes taxes		X				
	Gas / Electricity utility fees		X				
	Water / Sewer fees		X				
	Stormwater utility fees		X				
	Development impact fees		X				
	General obligation, revenue, and / or special tax bonds		X				
	Partnering arrangements or intergovernmental agreements		X				
Other							

Capability	✓ Program ✓ Organization			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
4. Education & Outreach	Firewise Communities Certification		X				
	StormReady Certification		X				
	Natural disaster or safety-related school programs		X				
	Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.	X		Fire Department, Police, EMC	More community outreach.	Greater community involvement.	
	Public-private partnership initiatives addressing disaster related issues.		X				
	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.		X				
	Other						

Capability Assessment – continued

Capability		Degree of Capability			Change since the 2013 Hazard Mitigation Plan? If so, how?	Additional Comments
		Limited	Moderate	High		
5. Self – Assessment	Planning and Regulatory		X		Updated Floodplain Ordinance.	
	Administrative and Technical		X			
	Financial	X				
	Education and Outreach		X		Greater community outreach.	

Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Northwoods	Residential	175	Heritage Lane		In planning process
Hilltop Center	Mixed Use	500	Cherryville Road – Seminary Property		Starting planning process in spring
Top of Mountain Estates	Residential	50	Timberline & Quince		Approved
Cherryville Partners	Commercial	2	Rt. 248 & Blue Mountain Drive	High volume traffic	Approved – Intersection improvement
Wynnefield Manor	Residential	25	Blue Mountain Drive & Cherryville Road		

Natural & Non-Natural Event History Specific to Lehigh Township

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
Snowstorm (1/23/2016)	DR-4267-PA	Short-term road closures in multiple locations.
Flooding / Rain Event (8/2018)	DR-4408-PA	Damage to numerous roadways due to flooding.
Pennsylvania COVID-19 Pandemic – 1/2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
Remnants of Hurricane Ida	DR-4618-PA	Assistance to eligible individuals and families affected by this disaster.

2013 Municipal Action Plan Status

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
1	Conduct and facilitate community and public education and outreach for residents and businesses, focusing on increasing personal preparedness and an increased awareness and use of available emergency warning and notification systems/services (e.g. NY Alert, reverse 911). This effort shall include, but not be limited to, the following to promote and effect natural hazard risk reduction: - Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. • Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.			X			Use of website, Nixle, social media for public notification and awareness
2	Upgrade backup power at the Police Station to properly support police and emergency management functions	X					Applied for FEMA Hazard Mitigation Grant funding in 2019 FY.
3	Work with Northampton County EMS to install backup power at the Lehigh Township Municipal Authority (Danielsville and Pennsville). This project is part of the Northampton Countywide Generator Project, funded through 2008 LPDM.				X		Generators installed at plants and pump stations Action not carried through to the 2018 Action Plan.
4	Upgrade emergency communications systems			X			
5	Assess vulnerability of electric substation and, if warranted, secure funding to mitigate.	X					
6	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	X					

2013 Municipal Action Plan Status – continued

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
7	Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	X					
8	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.			X			Ordinance updated
9	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).			X			
10	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	X					
11	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	X					
12	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	X					
13	Archive elevation certificates	X					
14	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0		X				
15	Complete the ongoing updates of the Comprehensive Emergency Management Plans		X				

2013 Municipal Action Plan Status – *continued*

	Existing Mitigation Action (from 2013 Hazard Mitigation Plan)	Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
16	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.		X				
17	Identify and develop agreements with entities that can provide support with FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping	X					
18	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).		X				

Notes:

1. Actions not carried through to the 2018 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2018 Action Plan even if identified by the municipality as completed.

2018 Mitigation Action Plan

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
1	Continued to utilize Nixle and township website for public information / notification.	Education & Awareness	All Hazards	High	0	N/A	Municipality	Ongoing	N/A
2	Upgrade backup power at the Police Station to properly support police and emergency management functions. Include generator costs in Capital Improvement Planning.	Structure & Infrastructure	Winter Storm, Windstorm, Lightning Strike, Utility Interruption	High	\$25,000	Grants, Municipal Budget	Municipality	Short-term (5 years)	N/A
3	Upgrade emergency communications systems	Structure & Infrastructure	All Hazards	High	Medium	Available Grant Programs; Municipal Budget	Municipality through Police Department	Short-term (depending on funding)	N/A
4	Assess vulnerability of electric substation and, if warranted, secure funding to mitigate.	Education & Awareness	Flood, Utility Interruption	High	Medium-High	Available Grant Programs; Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term assessment, long-term (depending on funding)	Existing
5	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	Structure & Infrastructure	Flood	Medium-High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing

2018 Mitigation Action Plan – continued

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
<p>6 Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss & severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.</p>	Structure & Infrastructure	Flood	Medium-High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing
<p>7 Maintain compliance with & good standing in the NFIP including adoption & enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification & mapping, & flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards & criteria through the following NFIP- related continued compliance actions identified below.</p>	Local plans & Regulations	Flood	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA	Ongoing	New & Existing
<p>8 Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).</p>	Local plans & Regulations	Flood	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term	New & Existing

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
9	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term	N/A
10	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	Local plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A
11	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term	N/A
12	Obtain and archive elevation certificates for NFIP compliance.	Local plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Ongoing	N/A
13	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	All Categories	All Hazards	High	Low – High (for 5-year update)	Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Municipality (via mitigation planning point of contacts) with support from Planning Partners (through their Points of Contact), PEMA	Ongoing	New & Existing

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
14	Complete the ongoing updates of the Comprehensive Emergency Management Plans	Local plans & Regulations	All Hazards	High	Low	Municipal Budget	Municipality with support from PEMA	Ongoing	New & Existing
15	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.	All Categories	All Hazards	High	Low	Municipal Budget	Municipality with support from Surrounding municipalities and County	Ongoing	New & Existing
16	Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping.	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality with support from County, PEMA, FEMA	Short-term	N/A
17	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-, long-term (depending on funding)	N/A
18	Coordinate with the County Emergency Management Agency and PA Department of Health, which is responsible for setting up points of distribution and providers for immunizations.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
19	Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
20	Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
21	Devise a public education and outreach plan regarding disease prevention.	Education & Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
22	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Ongoing	N/A
23	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-term	N/A
24	Provide training and education for first responders to ensure effective emergency care.	Local plans & Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
25	Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education & Awareness	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality/ School District	Ongoing	N/A
26	Purchase & installation of permanent, alternative power source (IE: generator) at the Lehigh Township Police Department headquarters. The Lehigh Township Police Department hosts the townships' Emergency Operations Center (EOC) if even needed during or after a weather / non-weather related incident.	Structure & Infrastructure	All Hazards	High	Medium – High	FEMA Mitigation Grant Programs (PDM, HMGP), Municipal Budget	Municipality with support from Local EM	Short Term	New & Existing

2018 Mitigation Action Plan – continued

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H/M/L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
<p>27 Purchase & installation of permanent, alternative power source (IE: generator) at the Lehigh Township Municipal Building. The Lehigh Township Municipal Building houses all pertinent township municipal offices, it also doubles as the local shelter location for township residents during and/or after a weather / non-weather related incident.</p>	Structure & Infrastructure	All Hazards	High	Medium – High	FEMA Mitigation Grant Programs (PDM, HMGP), Municipal Budget	Municipality with support from Local EM	Short Term	New & Existing

Notes:

Estimated Costs:

- Where actual project costs have been reasonable 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.

Potential Funding (FEMA HMA):

- **BRIC** = Building Resilient Infrastructure and Communities
- **FMA** = Flood Mitigation Assistance Grant Program
- **HMGP** = Hazard Mitigation Grant Program
- **HSGP** = Homeland Security Grant Program
- **EMPG** = Emergency Management Performance Grant

Implementation Schedule:

- **Short Term** = 1 to 5 years
- **Long Term** = 5 years or greater
- **DOF** = Depending on Funding

Applies to New and/or Existing Structures:

- **N/A** = Not Applicable