

Lehigh Township, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Alternate:

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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 10,774 (2020 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.

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| Alice Rehrig, Manager Role: Hazard Identification, Resolution, Project Coordinator | John Henry, Sergeant / Officer-in-Charge Role: Hazard Identification, Public Awareness |
| Scott Rehrig, Emergency Management Coordinator Role: Hazard Identification, Community Involvement, Public Awareness | Frank Zamadics, Public Works Director Role: Hazard Identification, Resolution |
| Roxann Colfer, Zoning Officer Role: Ordinance Overview | Richard Hildebrand, Fire Commissioner Role: Public Awareness, Hazard Identification |

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 2018 Hazard Mitigation Plan.

Current: Updates on Township Website, Newsletters & Police Department Facebook. Emergency Management Coordinator also 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.

Past: Same

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, GGIS, education or outreach, inspections, engineering capability) | Community FPA | When application for permits in the area of a stream are received, the NFP 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 | 11/15/1974 |
| 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. |

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

| 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 | As of 9/22/2023 – 14 policies & \$11,328 in premiums |
| 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 | As of 9/22/2023 – 13 claims & \$125,717.74 paid to claims |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | N/A |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or FEMA Insurance Specialist | N/A |
| 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 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 | Woodstone Lodge |
| Lehigh Elementary School | Teddy Bear Day Care |
| Becky's Drive-in Theater | Lorah's Farm (tractor pulls) |

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 |
| Lehigh Township Elementary School | |

Community Assets – *continued*

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 | Indian Creek |
| Bertsch Creek | Blue Mountain (forest) |
| Appalachian Trail | |

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.

| | |
|---|--------------------------|
| Bethlehem Water Treatment Plant | Norfolk Southern Railway |
| Heritage Village – private water system | PPL Transmission line |
| Buckeye Pipeline | Petroleum Pipeline |

Lehigh Township Municipal Authority water system & sewage system

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

| | |
|---------------------------------|---|
| Bethlehem Water Treatment Plant | Norfolk Southern – 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 Department |
| Lehigh Township Fire Company | Lehigh Township Elementary School |
| Bethany Wesleyan Church (shelter) | |

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

| | |
|--|-------------------------|
| Danielsville, Delps, Bryfogle & Indian Trail Parks | LTAA Complex |
| 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 2024 Plan? + Positive - Negative | Has the 2024 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 | 10/2023 | | Township | Supports | | | | |
| | Capital Improvement Plan | X | 2024 | | | | | | | |
| | 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 | 2024 | | County Emergency Management | | | N/A | | |
| | Emergency Operations Plan | X | 1/2/2024 | | Township & Local EMC | | + | | | |
| | Zoning Regulations | X | 4/3/2002 | X | Township | | | | | New ordinance expected to be adopted in 2026. |
| | 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 | Yes | No | Department / Agency | Change since 2024 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|--------------------------------|---|-----|----|---------------------|---|---|--|
| | | | | | | | |
| 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 | | | | | | |
| | Grant writers or fiscal staff to handle large / complex grants | | | | | | |
| | Other | | | | | | |

Capability Assessment – continued

| Capability | | Yes | No | Department / Agency | Change since 2024 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|-------------------------------|---|-----|----|---------------------|---|---|---|
| 3. Financial Resources | Capital improvement programming | | | | | | |
| | Community Development Block Grants (CDBG) | X | | County | + | | Twp. became eligible in 2025 |
| | Special purposes taxes | X | | Township | + | | Fire Tax adopted to help fund needs of Volunteer fire co. |
| | Gas / Electricity utility fees | | | | | | |
| | Water / Sewer fees | | | | | | |
| | Stormwater utility fees | | | | | | |
| | Development impact fees | | | | | | |
| | General obligation, revenue, and / or special tax bonds | | | | | | |
| | Partnering arrangements or intergovernmental agreements | | | | | | |
| | Other | | | | | | |

| Capability | ✓ Program ✓ Organization | Yes | No | Department / Agency | Change since 2024 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|------------------------------------|---|-----|----|------------------------------|---|---|---------------------|
| 4. Education & Outreach | Firewise Communities Certification | | | | | | |
| | StormReady Certification | | | | | | |
| | Natural disaster or safety-related school programs | | | | | | |
| | 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. | | | | | | |
| | Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. | | | | | | |
| | Other | | | | | | |

Capability Assessment – continued

| Capability | | Degree of Capability | | | Change since the 2024 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 | | Phase I started |
| Hilltop Center / Lehigh Valley Resort & Spa | Mixed Use w/ commercial & residential | 500 | 300 Cherryville Road | Large Gatherings | Hotel & spa construction starting in 2026 |
| Cherryville Partners / Turkey Hill | Commercial | 1 | Rt. 248 & Blue Mountain Drive | High volume traffic | Intersection improvement & convenience store – project stalled |

Natural & Non-Natural Event History

| Type of Event and Date(s) | FEMA Disaster # (if applicable) | Local Damage(s) or Loss(es) |
|---|---------------------------------|--|
| 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. |

2018 Municipal Action Plan Status

| Existing Mitigation Action (from 2018 Hazard Mitigation Plan) | | Status | | | | | Additional Comments |
|--|--|--------------------------|-------------|------------|-----------|--------------|--|
| | | No Progress / Unknown | In Progress | Continuous | Completed | Discontinued | |
| 1 | Continued to utilize Nixle and township website for public information / notification. | X | | | | | Applied for FEMA Hazard Mitigation Grant funding in 2019 FY. |
| 2 | Upgrade backup power at the Police Station to properly support police and emergency management functions. Include generator costs in Capital Improvement Planning. | | | | X | | Generators installed at plants and pump stations Action not carried through to the 2018 Action Plan. |
| 3 | Upgrade emergency communications systems. | | | X | | | |
| 4 | Assess vulnerability of electric substation and, if warranted, secure funding to mitigate. | X | | | | | |
| 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. | X | | | | | |
| 6 | 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 | | | | | |
| 7 | 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 as Initiatives below. | | | X | | | Ordinance updated |

2018 Municipal Action Plan Status – continued

| Existing Mitigation Action (from 2018 Hazard Mitigation Plan) | | Status | | | | | Additional Comments |
|--|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
| | | No Progress / Unknown | In Progress | Continuous | Completed | Discontinued | |
| 8 | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards). | | | X | | | |
| 9 | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | | | X | | | |
| 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. | X | | | | | |
| 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. | X | | | | | |
| 12 | Obtain and archive elevation certificates for NFIP compliance. | | | X | | | |
| 13 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. | | | X | | | |
| 14 | Complete the ongoing updates of the Comprehensive Emergency Management Plans. | | | X | | | |
| 15 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | | X | | | | |
| 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. | X | | | | | |
| 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). | | X | | | | |
| 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. | | | X | | | |
| 19 | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. | | | X | | | |
| 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. | | | X | | | |

2018 Municipal Action Plan Status – continued

| Existing Mitigation Action (from 2018 Hazard Mitigation Plan) | | Status | | | | | Additional Comments |
|--|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
| | | No Progress / Unknown | In Progress | Continuous | Completed | Discontinued | |
| 21 | Devise a public education and outreach plan regarding disease prevention. | | | X | | | |
| 22 | Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. | | | X | | | |
| 23 | Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form. | | | X | | | |
| 24 | Provide training and education for first responders to ensure effective emergency care. | | | X | | | |
| 25 | Provide education and outreach, especially in K-12, regarding drug abuse prevention. | | | X | | | |
| 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. | | | X | | | |
| 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. | | | X | | | |

Notes:

1. Actions not carried through to the 2023 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2023 Action Plan even if identified by the municipality as completed.

2024 Mitigation Action Plan

| Mitigation Action | | Mitigation Action Category | 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. | 4 | 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. | 17 | 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. | 19 | 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. | 21 | Education & Awareness | Flood, Utility Interruption | High | Medium-High | Available Grant Programs; Municipal Budget | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA | Short-term assessment, long-term (depending on funding) | Existing |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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 |
|-------------------|--|----------------------------|-------------------------------|---------------------|----------------------|----------------|--|--|----------------------------------|---|
| 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. | 1 | Structure & Infrastructure | Flood | High | High | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA | Long-term (depending on funding) | Existing |
| 6 | 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. | 2 | Structure & Infrastructure | Flood | High | High | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA pal | Long-term (depending on funding) | Existing |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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 |
|-------------------|---|----------------------------|-------------------------------|------------------------------|----------------------|----------------|-------------------|--|-------------------------|---|
| 7 | Maintain compliance with and good standing in the NFIP including adoption & enforcement of floodplain management requirements (e.g. regulating all new & 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 and criteria through the following NFIP- related continued compliance actions identified below. | 3 | Local plans & Regulations | Flood | High | High | Municipal Budget | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, ISO FEMA | Ongoing | New & Existing |
| 8 | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage / improvements) sinkhole risk (e.g. carbonate bedrock standards). | 5 | Local plans & Regulations | Flood; Subsidence/ Sinkholes | High | Low | Municipal Budget | Municipality (Mun. Engineer / NFIP Floodplain Adm.) w/ support from PEMA, FEMA | Short-term | New & Existing |
| 9 | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | 3 | Local plans & Regulations | Flood | High | Low | Municipal Budget | NFIP Floodplain Administrator w/ support from PADEP, PEMA, FEMA | Short-term | N/A |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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 |
|-------------------|--|----------------------------|-------------------------------|---------------------|----------------------|--------------------------------|--|--|-----------------------------------|---|
| 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. | 6 | Local plans & Regulations | Flood | Medium | 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. | 7 | Local plans & Regulations | Flood | High | Low | Municipal Budget | NFIP Floodplain Administrator w/ support from PADEP, PEMA, FEMA | Short-term | N/A |
| 12 | Obtain and archive elevation certificates for NFIP compliance. | 8 | Local plans & Regulations | Flood | Low | 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 | 9 | 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 |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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. | 10 | Local plans & Regulations | All Hazards | Medium | Low | Municipal Budget | Municipality w/ support from PEMA | Ongoing | New & Existing |
| 15 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | 11 | All Categories | All Hazards | Medium | Low | Municipal Budget | Municipality w/ support from surrounding municipalities and County | Ongoing | New & Existing |
| 16 | Develop & 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. | 12 | Structure & Infrastructure | All Hazards | Low | Medium | Municipal Budget | Municipality w/ 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). | 13 | Structure & Infrastructure | All Hazards | Medium | Medium | Municipal Budget, FEMA HMA grant programs | Municipality w/ 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. | 11 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality, working w/ County EMA and PA Department of Health | Ongoing | N/A |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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 |
|-------------------|---|----------------------------|-------------------------------|-------------------------------|----------------------|----------------|-------------------|-------------------------------|-------------------------|---|
| 19 | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. | 27 | Local plans & Regulations | Pandemic & Infectious Disease | High | Low | Municipal Budget | Municipality | Short-term | N/A |
| 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. | 11 | Local plans & Regulations | Pandemic & Infectious Disease | Medium | Low | Municipal Budget | Municipality | Short-term | N/A |
| 21 | Devise a public education and outreach plan regarding disease prevention. | 27 | Education & Awareness | Pandemic & Infectious Disease | High | 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. | 27 | 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. | 27 | 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. | 27 | Local plans & Regulations | Drug Overdose Crisis | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| 25 | Provide education and outreach, especially in K12, regarding drug abuse prevention. | 27 | Education & Awareness | Drug Overdose Crisis | High | Low | Municipal Budget | Municipality/ School District | Ongoing | N/A |

2024 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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 |
|-------------------|--|----------------------------|-------------------------------|---------------------|----------------------|----------------|--|---------------------------------------|-------------------------|---|
| 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. | 17 | Structure & Infrastructure | All Hazards | High | Medium – High | FEMA Mitigation Grant Programs (PDM, HMGP), Municipal Budget | Municipality w/ support from Local EM | Short Term | New & Existing |
| 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. | 17 | Structure & Infrastructure | All Hazards | High | Medium – High | FEMA Mitigation Grant Programs (PDM, HMGP), Municipal Budget | Municipality w/ 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):

- **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