

# **Moore Township, Northampton County Annex**

## **Hazard Mitigation Plan Points-of-Contact**

### **Primary:**

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Emergency Management Coordinator (EMC)  
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### **Alternate:**

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## **Municipal Profile**

Moore Township is a rural township located in the northwestern portion of Northampton County. It encompasses an area of 37.5 square miles and has an approximate population of 9,322 (2020 Census). The township is bordered by Lehigh Township to the west, Allen Township to the southwest, East Allen Township to the south, Upper Nazareth Township to the southeast, Bushkill Township to the east, Ross Township (Monroe County) to the northwest, Eldred Township (Monroe County) to the north, and Lower Towamensing Township (Carbon County) to the northwest. Moore Township also surrounds Chapman Borough in the township's southeast region.

The Hokendauqua Creek begins in the western part of the township and flows southwest into Lehigh Township. The Monocacy Creek begins in the south-central portion of the township and flows south through Chapman Borough and parallel to PA Route 987 into East Allen Township. The Bushkill Creek begins along the northern part of the eastern border of the township and flows east into Bushkill Township.

PA Route 248 (Pheasant Drive) enters the township from Lehigh Township along the southern part of the township's western border and travels southeast to exit the township near the midpoint of the southern border with East Allen Township. PA Route 946 (Mountain View Drive) enters the township from Lehigh Township along the northern part of the township's western border, travels southeast to the middle of the township, then travels east as Community Drive to just inside the eastern border with Bushkill Township, where it turns south and exits (as Nazareth Drive) into Bushkill Township at the southern end of the border with Bushkill Township. PA Route 987 (Monocacy Drive) enters the township near the middle of the township's southern border with East Allen Township and travels north to its termination at PA Route 946. PA Route 512 (Moorestown Road) also enters the township near the middle of the township's southern border with East Allen Township, and travels northeast, exiting the township near the middle of its eastern border with Bushkill Township.

## 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.

Jason Harhart, Zoning Officer  
Role: Floodplain Administration

John Hofacker, Fire Chief  
Role: Fire Chief

Kevin Horvath, Engineer  
Role: Engineer

Stephen Nowroski, Township Manager  
Role: Township Manager

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.

Klecknersville Rangers Fire Company

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: Township Newsletters, Social media

Past: Same

## Compliance with the National Flood Insurance Program (NFIP)

| Topic  | Identify source of information if different from the one listed.   | Additional Comments                                       |
|--|--|---|
| <b>1. Staff Resources</b>  |  |   |
| Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?   | Community FPA  | N/A   |
| 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  | N/A   |
| What are the barriers to running an effective NFIP program in the community, if any?   | Community FPA  | No  |
| <b>2. Compliance History</b>   |  |   |
| Is the community in good standing with the NFIP?   | State NFIP Coordinator, FEMA NFIP Specialist, or community records | N/A   |
| Are there any outstanding compliance issues (i.e., current violations)?  |  | N/A   |
| When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?  |  | N/A   |
| Is a CAV or CAC scheduled or needed?   |  | N/A   |
| <b>3. Regulation</b>   |  |   |
| When did the community enter the NFIP?   | NFIP Community Status Book   | 8/2/1974  |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper?<br>How are residents assisted with mapping?  | Community FPA  | N/A   |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?  | Community FPA  | N/A   |
| Describe the permitting process  | Community FPA, State, FEMA NFIP                                    | N/A   |
| <b>4. Insurance Summary</b>  |  |   |
| How many NFIP policies are in the community?<br>What is the total premium and coverage?  | State NFIP Coordinator or FEMA NFIP Specialist                     | As of 9/22/2023 – 16 policies & \$10,352 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 – 15 claims & \$220,577.22 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   |

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

| 5. Community Rating System (CRS)   |   |     |
|--|---|-----|
| Does the community participate in CRS?   | Community FPA, State, or FEMA NFIP  | N/A |
| If so, what is the community's CRS Class Ranking?                                    | Flood Insurance Manual<br>( <a href="http://www.fema.gov/floodinsurancemanual.gov">http://www.fema.gov/floodinsurancemanual.gov</a> ) | 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.

None

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

Soccer Tournaments

Recreation Center

Community Days Events

### 2. Economy

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

None

### 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.

None

### 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.

None

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

Possible construction of PennEast pipeline through the Township

**Community Assets – continued**

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

None

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

Klecknersville Rangers Fire Company | Township Municipal & Police Building

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

None

## Capability Assessment

| Capability               | ✓ Regulatory<br>✓ Tools<br>✓ Programs                      | Status   |                         |                   | Department / Agency Responsible | Effect on Hazard Loss Reduction:<br>-Supports<br>-Neutral<br>-Hinders | Change since 2018 Plan?<br>+ Positive<br>- Negative | Has the 2018 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        | 2022                    |                   | Planning & Zoning               | Supports  | Positive  | Land Development reviews   |   |   |
|                          | Capital Improvement Plan                                   | X        |                         |                   | Public Works                    | Supports  |   |  |   |   |
|                          | Economic Development Plan                                  |          |                         |                   |                                 |   |   |  |   |   |
|                          | Continuity of Operations Plan                              |          |                         | X                 | Police & Public Works           | Supports  |   |  |   | Beginning development                         |
|                          | Stormwater Management Plan / Ordinance                     | X        | 2003 & 2018             | X                 | Planning & Zoning               | Supports  | Positive  | Land Development Reviews   |   | Ordinances being updated for adoption in 2024 |
|                          | Open Space Management Plan (or Parks/Rec., Greenways Plan) | X        | 2012                    | X                 | Planning & Zoning               | Supports  | Positive  | Land Development Reviews   |   | Plan is beginning to be updated               |
|                          | Natural Resource Protection Plan                           |          |                         |                   |                                 |   |   |  |   |   |
|                          | Transportation Plan  |          |                         |                   |                                 |   |   |  |   |   |
|                          | Historic Preservation Plan                                 |          |                         |                   |                                 |   |   |  |   |   |
|                          | Floodplain Management Plan                                 | X        | 2014                    |                   | Planning & Zoning               | Supports  | Positive  | Land Development and Zoning Reviews  |   |   |
|                          | Farmland Preservation                                      | X        | 2012                    |                   | Planning & Zoning               | Supports  | Positive  | Land Development Reviews   |   |   |
|                          | Evacuation Plan  |          |                         | X                 | Police & Public Works           | Supports  |   |  |   | Beginning development                         |
|                          | Disaster Recovery Plan                                     |          |                         | X                 | Police & Public Works           | Supports  |   |  |   | Beginning Development                         |
| Hazard Mitigation Plan   | X  | 2024     | X                       |                   |                                 |   | N/A   |  |   |   |

**Capability Assessment – continued**

| Capability                          | ✓ Regulatory<br>✓ Tools<br>✓ Programs | Status   |                         |                   | Department / Agency Responsible | Effect on Hazard Loss Reduction:<br>-Supports<br>-Neutral<br>-Hinders | Change since 2018 Plan?<br>+ Positive<br>- Negative | Has the 2018 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 |                                 |   |   |  |   |                             |
| <b>1. Planning &amp; Regulatory</b> | Emergency Operations Plan             | X        | 4/2020                  |                   | Police & Public Works           | Supports  |   |  |   |                             |
|                                     | Zoning Regulations                    | X        | 2011                    | X                 | Planning & Zoning               | Supports  |   |  |   | Under review for amendments |
|                                     | Floodplain Regulations                | X        | 7/16/14                 |                   | Planning & Zoning               | Supports  |   |  |   |                             |
|                                     | NFIP Participation                    |          |                         |                   |                                 |   |   |  |   |                             |
|                                     | Building Code                         |          |                         |                   |                                 |   |   |  |   |                             |
|                                     | Fire Code                             |          |                         |                   |                                 |   |   |  |   |                             |
|                                     | Other                                 |          |                         |                   |                                 |   |   |  |   |                             |



**Capability Assessment – continued**

| Capability                                | ✓ <b>Staff</b><br>✓ <b>Personnel</b><br>✓ <b>Resources</b>  |     |    | Department / Agency | Change since 2018 Plan?<br>+ Positive<br>- Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|---|---|-----|----|---------------------|---|---|---------------------|
|   |   | Yes | No |                     |   |   |                     |
| <b>2. Administrative &amp; Technology</b> | Planners (with land use / land development knowledge)   | X   |    | Planning Commission |   |   |                     |
|   | Planners or engineers (with natural and / or human caused hazards knowledge)  | X   |    |                     |   |   |                     |
|   | Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X   |    |                     |   |   |                     |
|   | Emergency Manager   | X   |    |                     |   |   |                     |
|   | Floodplain administrator / manager  | X   |    |                     |   |   |                     |
|   | Land surveyors  | X   |    |                     |   |   |                     |
|   | Staff familiar with the hazards of the community  | X   |    |                     |   |   |                     |
|   | Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program                                     | X   |    |                     |   |   |                     |
|   | Grant writers or fiscal staff to handle large / complex grants  |     |    |                     |   |   |                     |
|   | Other   |     |    |                     |   |   |                     |

| Capability                    |   |    | Department / Agency | Change since 2018 Plan?<br>+ Positive<br>- Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|-------------------------------|---|----|---------------------|---|---|---------------------|
|                               | Yes   | No |                     |   |   |                     |
| <b>3. Financial Resources</b> | Capital improvement programming                         | X  |                     |   |   |                     |
|                               | Community Development Block Grants (CDBG)               |    |                     |   |   |                     |
|                               | 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 |    |                     |   |   |                     |
|                               | Partnering arrangements or intergovernmental agreements |    |                     |   |   |                     |
| Other                         |   |    |                     |   |   |                     |

**Capability Assessment – continued**

| Capability              | ✓ Program<br>✓ Organization   | Yes | No | Department / Agency                     | Change since 2018 Plan?<br>+ Positive<br>- 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                         |   |   |                     |
|                         | 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. | X   |    | Land and Environmental Protection Board |   |   |                     |
|                         | Other   |     |    |   |   |   |                     |

| Capability           |                              | Degree of Capability |          |      | Change since the 2018 Hazard Mitigation Plan?<br>If so, how? | Additional Comments |
|----------------------|------------------------------|----------------------|----------|------|--|---------------------|
|                      |                              | Limited              | Moderate | High |  |                     |
| 5. Self – Assessment | Planning and Regulatory      |                      | X        |      |  |                     |
|                      | Administrative and Technical |                      | X        |      |  |                     |
|                      | Financial                    |                      | X        |      |  |                     |
|                      | Education and Outreach       |                      | X        |      |  |                     |

### Known or Anticipated Future Development / Redevelopment

| Development / Property Name   | Type of Development | Number of Structures | Location | Known Hazard Zone | Description / Status |
|-------------------------------|---------------------|----------------------|----------|-------------------|----------------------|
| None identified at this time. |                     |                      |          |                   |                      |

### 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<br>(from 2018 Hazard Mitigation Plan) |  | Status                   |             |            |           |              | Additional Comments |
|--|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|  |  | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued |                     |
| 1  | Replace undersized stormwater culverts – locations to be provided.   |                          |             | X          |           |              |                     |
| 2  | Retrofit structures located in hazard prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.<br>Phase 1: Identify appropriate candidates for retrofitting based on cost effectiveness versus relocation.<br>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          |           |              |                     |
| 3  | 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.<br>Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting.<br>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          |           |              |                     |
| 4  | 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          |           |              |                     |

**2018 Municipal Action Plan Status – continued**

|    | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)   | Status                   |             |            |           |              | Additional Comments |
|----|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|    |  | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued |                     |
| 5  | Conduct and facilitate community and public education for residents and businesses to include, but not be limited to, the following to promote and effect hazard risk reduction:<br>- Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.<br>- 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.<br>- 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.<br>- Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. |                          |             | X          |           |              |                     |
| 6  | 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          |           |              |                     |
| 7  | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.   |                          |             | X          |           |              |                     |
| 8  | 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          |           |              |                     |
| 9  | 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          |           |              |                     |
| 10 | Obtain and archive elevation certificates for NFIP compliance.   |                          |             | X          |           |              |                     |
| 11 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0.   |                          |             | X          |           |              |                     |
| 12 | Complete the ongoing updates of the Comprehensive Emergency Management Plans.  |                          |             | X          |           |              |                     |
| 13 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.   |                          |             | X          |           |              |                     |

**2018 Municipal Action Plan Status – continued**

|    | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)   | Status                   |             |            |           |              | Additional Comments |
|----|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|    |  | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued |                     |
| 14 | 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          |           |              |                     |
| 15 | 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 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.

## 2023 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                 | Replace undersized stormwater culverts – locations to be provided.  | 14                         | Structure & Infrastructure    | Flood               | Medium               | High           | Local budgets; FEMA mitigation grants as applicable                                | Township Engineering and Public Works  | Long-term                        | Existing                                    |
| 2                 | Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.<br>Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation.<br>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                                    |

**2023 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 |
|---|----------------------------|-------------------------------|---------------------|----------------------|----------------|--|--|----------------------------------|---|
| <p><b>3</b> 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.</p>        | 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                                    |
| <p><b>4</b> Maintain compliance with and good standing in the NFIP including adoption &amp; enforcement of floodplain management requirements (e.g. regulating all new &amp; substantially improved construction in Special Hazard Flood Areas), floodplain identification &amp; mapping, &amp; 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.</p> | 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                              |



**2023 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 |
|--|----------------------------|-------------------------------|---------------------|----------------------|----------------|-------------------|--|-------------------------|---|
| <p><b>5</b> Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction:</p> <ul style="list-style-type: none"> <li>- Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.</li> <li>- 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.</li> <li>- 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.</li> <li>- Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.</li> </ul> | 4                          | Education & Awareness         | All Hazards         | High                 | Low-Medium     | Municipal Budget  | Municipality w/ support from Planning Partners, PEMA, FEMA | Short-term              | N/A                                       |

**2023 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 |
|-------------------|--|----------------------------|-------------------------------|-------------------------------|----------------------|----------------|-------------------|--|-----------------------------------|---|
| <b>6</b>          | 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                              |
| <b>7</b>          | 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   |
| <b>8</b>          | 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   |
| <b>9</b>          | 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   |

**2023 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                | Obtain and archive elevation certificates for NFIP compliance.  | 8                          | Local plans & Regulations     | Flood               | Low                  | Low                            | Municipal Budget   | NFIP Floodplain Administrator  | Ongoing                 | N/A   |
| 11                | 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) w/ support from Planning Partners (through their Points of Contact), PEMA | Ongoing                 | New & Existing                              |
| 12                | 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                              |
| 13                | 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                              |
| 14                | Develop & maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel<br>– Improve post disaster capabilities<br>– 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   |

**2023 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 |
|--|----------------------------|-------------------------------|---------------------|----------------------|----------------|---|---|--|---|
| 15<br>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   |

**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