**Lower Milford Township, Lehigh County Annex**

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

|  |  |
| --- | --- |
| **Primary:** | **Alternate:** |
| Brian McKee  Emergency Management Coordinator  7607 Chestnut Hill Church Road, Coopersburg, PA 18036  610-967-4949  [emc@lowermilford.org](mailto:emc@lowermilford.org) | Emily Fucci  Township Administrator  7607 Chestnut Hill Church Road, Coopersburg, PA 18036  610-967-4949 x 116  [administrator@lowermilford.org](mailto:administrator@lowermilford.org) |

**Municipal Profile**

Lower Milford Township is located in the southern-most corner of Lehigh County, on the border with Bucks County to the southeast and Montgomery County to the southwest. Lower Milford Township consists mainly of agricultural land, and has a population of 3,841 (2020 Census). The Township is also bordered by; Upper Milford and Upper Saucon Townships to the northwest and northeast, respectively. The Township’s total area of 19.6 square miles includes the villages of Dillingersville; Hosensack; Kraussdale and Limeport.

Waterways in Lower Milford Township include the Saucon and Perkiomen Creeks, all of which are located within the Delaware watershed. The Saucon Creek begins in Lower Milford and partially drains into the Lehigh River. The Township is the source of three tributary creeks of the Perkiomen Creek, which drains into the Schuylkill River: Hosensack Creek (which starts near the source of the Saucon Creek), Unami Creek, and Macoby Creek.

The PA Turnpike Northeast Extension (Route 476) runs southeast-northwest through Lower Milford Township. The township’s major roads are Church View Road / Beverly Hills Road, Kings Highway, Limeport Pike, Palm Road, and Spinnerstown Road, which connects with Route 663 and the Quakertown Interchange of Interstate 476 just over the Bucks County line.

**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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| Emily Fucci, Township Administrator  Role: Planning / Advisory | Ellen Koplin, Supervisor Chair  Role: Planning |
| John Hagan, Public Works Foreman  Role: Planning |  |

**Municipal Participation – *continued***

1. 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.

Lower Milford Residents Association

1. 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.

|  |  |
| --- | --- |
| Website | Facebook |
| Newsletters | Township meetings |

**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 |  |
| Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability) | Community FPA | The zoning ordinance prohibits new structures within the floodplain. |
| What are the barriers to running an effective NFIP program in the community, if any? | Community FPA |  |
| **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)? |  | ? |
| Is a CAV or CAC scheduled or needed? |  | ? |
| **3. Regulation** | | |
| When did the community enter the NFIP? | NFIP Community Status Book | Unknown |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper?  How are residents assisted with mapping? | Community FPA | Paper-overlay on zoning map |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements?  If so, in what ways? | Community FPA | County GIS prohibits structures |
| Describe the permitting process | Community FPA, State, FEMA NFIP | Driveways, etc. are reviewed by the zoning hearing board |

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

|  |  |  |
| --- | --- | --- |
| **Topic** | **Identify source of information, if different from the one listed.** | **Additional Comments** |
| **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 | Unknown |
| 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 | Unknown |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | Approx. 100 |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or  FEMA Insurance Specialist |  |
| **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.

Village of Limeport

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

N/A

**Community Assets – *continued***

1. **Economy**

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

1. **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.

Lower Milford Marsh

Hosensack Marsh

1. **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.

Village of Limeport

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

Limeport Wastewater Treatment Facility

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

|  |  |
| --- | --- |
| Powder Valley Dam |  |
| PPL / First Energy Switch yard |  |

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

|  |  |
| --- | --- |
| Lower Milford Fire Co. | Former Lower Milford Elementary School (shelter) |
| Township building |  |

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

Limeport Stadium

**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 | 2005 |  | Planning Commission | support | positive | No | Funding | revised  2017- 12/17 |
| Capital Improvement Plan |  |  | X | Board of Supervisors | neutral | none | No | Funding |  |
| Economic Development Plan |  |  |  |  |  |  |  |  |  |
| Continuity of Operations Plan |  |  | X | Emergency management |  |  | No |  |  |
| Stormwater Management Plan / Ordinance | X | act 167 |  | Planning Commission |  |  | No |  | Saucon and  Perkiomen creeks |
| Open Space Management Plan (or Parks/Rec., Greenways Plan) | X |  |  | Planning Commission |  |  | No |  |  |
| Natural Resource Protection Plan | X | zoning  ordinance  2009 |  | Zoning Board | supports |  | No |  |  |
| Transportation Plan |  | part of comp plan |  |  |  |  | No |  |  |
| Historic Preservation Plan | X | zoning  ordinance  2009 |  | Zoning Board and Historical  Committee |  |  | No |  |  |
| Floodplain Management Plan | X | 2000 & 2009 |  |  |  |  | No |  |  |
| Farmland Preservation |  | comp plan |  |  |  |  | No |  |  |
| Evacuation Plan |  |  |  |  |  |  | No |  |  |
| Disaster Recovery Plan |  |  |  |  |  |  | No |  |  |

**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** | Hazard Mitigation Plan |  |  |  |  |  |  | No |  |  |
| Emergency Operations Plan | X | 2012 |  |  |  |  | No |  |  |
| Zoning Regulations | X | 2009 |  |  |  |  | No |  |  |
| Floodplain Regulations |  | zoning  ordinance |  |  |  |  | No |  |  |
| NFIP Participation | X |  |  |  |  |  | No |  |  |
| Building Code | X | 2004 |  |  |  |  | No |  |  |
| Fire Code |  | building  code |  |  |  |  | No |  |  |
| Other |  |  |  |  |  |  | No |  |  |

**Capability Assessment – *continued***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Staff** * **Personnel** * **Resources** | **Yes** | **No** | **Department / Agency** | **Change since 2013 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 |  | Administration and Zoning |  |  |  |
| Planners or engineers (with natural and / or human-caused hazards knowledge) | X |  | Administration and Township Engineer |  |  |  |
| Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X |  | Building code Officials |  |  |  |
| Emergency Manager | X |  | Administration |  |  |  |
| Floodplain administrator / manager | X |  | Zoning |  |  |  |
| Land surveyors | X |  | Township Engineer |  |  |  |
| Staff familiar with the hazards of the community | X |  | Administration,  Public Works,  Emergency Manager |  |  |  |
| Personnel skilled in Geographical Information Systems (GIS) and / or FEMA’s HAZUS program | X |  | Township Engineer |  |  |  |
| Grant writers or fiscal staff to handle large / complex grants | X |  | Finance and Administration |  |  |  |
| Other |  |  |  |  |  |  |

**Capability Assessment – *continued***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** |  | **Yes** | **No** | **Department / Agency** | **Change since 2013 Plan?**  **+ Positive**  **- Negative** | **How can these capabilities be expanded and improved to reduce risk?** | **Additional Comments** |
| **3. Financial Resources** | Capital improvement programming | X |  | Fund Administration |  |  |  |
| Community Development Block Grants (CDBG) |  | X |  |  |  | do not qualify |
| Special purposes taxes | X |  | Fire Company |  |  |  |
| Gas / Electricity utility fees |  | X |  |  |  |  |
| Water / Sewer fees | X |  | Finance |  |  |  |
| Stormwater utility fees |  | X |  |  |  |  |
| Development impact fees | X |  | Recreation |  |  |  |
| General obligation, revenue, and / or special tax bonds |  | X |  |  |  |  |
| Partnering arrangements or intergovernmental agreements | X |  | Board of Supervisors and Planning  Commission |  |  |  |
| Other |  |  |  |  |  |  |

**Capability Assessment – *continued***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Program** * **Organization** | **Yes** | **No** | **Department / Agency** | **Change since 2013 Plan?**  **+ Positive**  **- Negative** | **How can these capabilities be expanded and improved to reduce risk?** | **Additional Comments** |
| **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 |  | Administration |  |  |  |
| 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 |  | Lower Milford  Residents  Association - non profit |  |  |  |
| Other |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 |  |  |  |  |
| 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** |
| Unknown |  |  |  |  |  |

**Natural & Non-Natural Event History Specific to Lower Milford Township**

|  |  |  |
| --- | --- | --- |
| **Type of Event and Date(s)** | **FEMA Disaster #**  **(if applicable)** | **Local Damage(s) or Loss(es)** |
| Winter Storm Jonas – 1/2016 | DR-4267-PA | Snow storm clean-up |
| Pennsylvania COVID-19 Pandemic – 1/2020 | DR-4506-PA | Emergency Protective measures to combat COVID-19 Pandemic. |

**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** | Shultz Bridge Road Streambank Stabilization  - Severe stream bank erosion, which could lead to undermining the roadway |  |  |  | X |  | Schultz Bridge Road Streambank stabilization. Action not carried through to 2018 Action Plan. |
| **2** | Replacement of culvert at the intersection of Limeport Pike and Dillingersville Road which leads to roadway flooding | X |  |  |  |  | Limeport Pike & Dillingersville culvert - PennDOT |
| **3** | Replacement of Culvert on Spinnerstown Road (between Plover Lane and Orchard Road) which leads to roadway flooding | X |  |  |  |  | Spinnerstown Rd culvert  (Plover & Orchard) - PennDOT |
| **4** | Drainage System in the 3800 Block of Limeport Pike – Southbound: Roadway Flooding, Ponding during heavy rains, no drainage | X |  |  |  |  | 3800 block Limeport Pk.  Drainage system - PennDOT |
| **5** | Stormwater Facility in the area of Spinnerstown Road and School House Lane leading to roadway flooding | X |  |  |  |  | Spinnerstown & Schoolhouse stormwater facility - PennDOT |
| **6** | School House Lane/Spring Road – Roadway flooding Elevate Road, install drainage structure |  |  |  |  | X | Schoolhouse Ln & Spring Rd – flooding – Spring Road vacated and removed as public roadway – now private |
| **7** | West Mill Hill and Yeakel Roads– Roadway flooding Elevate Road, install drainage structure |  | X |  |  |  | West Mill Hill & Yeakel - flooding |
| **8** | Limeport Pike between Spring Road and Milky Way– Roadway flooding Elevate Road, install drainage structure | X |  |  |  |  | Limeport Pike flooding  (Spring & Milky way) - PennDOT |
| **9** | Funds to maintain and purchase new equipment, which would be utilized to assist in emergency response |  |  | X |  |  | Funds for new equipment |
| **10** | 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 11 – 16 (below). |  |  | X |  |  | NFIP criteria |

**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** |
| **11** | 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 effectively reduce risk to natural hazard:  - Provide and maintain links to the HMP website, and regularly post notices municipal homepage(s) referencing the HMP webpages.  - 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 |  |  | Community & public education |
| **12** | Begin 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 |  |  | Regulatory standards |
| **13** | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | X |  |  |  |  | CAV |
| **14** | 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 |  |  |  |  | NFIP Administrator |
| **15** | 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 |  |  |  |  | CRS |
| **16** | Archive elevation certificates |  |  | X |  |  | Archive certs |
| **17** | Continue to support the implementation, monitoring, maintenance, and updating of this , as defined in Section 7.0 |  |  | X |  |  | Monitor |
| **18** | Complete the ongoing updates of the Comprehensive Emergency Management Plans |  |  | X |  |  | Emergency management Plan |
| **19** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. |  |  | X |  |  | Mutual aid agreements |

**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** |
| **20** | 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 |  |  | FEMA/PEMA paperwork |
| **21** | 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 |  |  | regional agencies |

**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** | Replacement of culvert at the intersection of Limeport Pike and Dillingersville Road which leads to roadway flooding | Structure & Infrastructure | Flood | Medium | High | Federal,  State,  County  Funding | PennDOT | Short-term  (depending on funding) | Existing |
| **2** | Replacement of Culvert on Spinnerstown Road (between Plover Lane and Orchard Road) which leads to roadway flooding | Structure & Infrastructure | Flood | Medium | High | Federal,  State,  County  Funding | PennDOT | Short-term  (depending on funding) | Existing |
| **3** | Drainage System in the 3800 Block of  Limeport Pike – Southbound: Roadway Flooding, Ponding during heavy rains, no drainage | Structure & Infrastructure | Flood | Medium | Medium | Federal,  State,  County  Funding | PennDOT | Short-term  (depending on funding) | Existing |
| **4** | Stormwater Facility in the area of  Spinnerstown Road & School House Lane leading to roadway flooding | Structure & Infrastructure | Flood | Medium | High | Federal,  State,  County  Funding | PennDOT | Short-term  (depending on funding) | Existing |
| **5** | School House Lane/Spring Road – Roadway flooding Elevate Road, install drainage structure | Structure & Infrastructure | Flood | High | High | HMGP | Public Works | Short-term  (depending on funding) | Existing |
| **6** | West Mill Hill and Yeakel Roads– Roadway flooding Elevate Road, install drainage structure | Structure & Infrastructure | Flood | High | High | RFC Grant Program | Public Works | Short-term  (depending on funding) | Existing |
| **7** | Limeport Pike between Spring Road and Milky Way– Roadway flooding Elevate Road, install drainage structure | Structure & Infrastructure | Flood | Medium | High | Federal,  State,  County  Funding | PennDOT | Short-term  (depending on funding) | Existing |
| **8** | Funds to maintain and purchase new equipment, which would be utilized to assist in emergency response | Structure & Infrastructure | All Hazards | Medium | Medium | FMA Grant Program | Municipal | 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** |
| **9** | 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 11 – 16 (below). | 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 |
| **10** | 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 effectively reduce risk to natural hazard:  - Provide and maintain links to the HMP website, and regularly post notices municipal homepage(s) referencing the HMP webpages.  - 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. | Education  & Awareness | All Hazards | High | Low-  Medium | Municipal Budget | Municipality with support  from Planning Partners,  PEMA, FEMA | 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** |
| **11** | 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). | Local plans  & Regulations | Flood;  Subsidence/ Sinkholes | High | Low | Municipal Budget | Municipality  (via Municipal  Engineer/NFIP Floodplain  Administrator) with support from PEMA, FEMA. LVPC for Carbonate Bedrock  Standard model ordinance. | Short-term | New &  Existing |
| **12** | 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 |
| **13** | 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 |
| **14** | 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 |

**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** |
| **15** | Obtain and archive elevation certificates for NFIP compliance. | Local plans  & Regulations | Flood | High | Low | Municipal Budget | NFIP  Floodplain  Administrator | On-going | N/A |
| **16** | Continue to support the implementation, monitoring, maintenance, and updating of this, 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  p.o.c’s) w/  support from  Planning  Partners  (through their p.oc.’s), PEMA | On-going | New &  Existing |
| **17** | 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 |
| **18** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | All  Categories | All Hazards | High | Low | Municipal Budget | Municipality w/ support from  surrounding  municipalities and County | Ongoing | New &  Existing |
| **19** | 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 |
| **20** | 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-term  (depending on funding) | N/A |

**2018 Mitigation Action Plan – *continued***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| **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** | 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 |

**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 andCommunities
* **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