# **Lowhill Township, Lehigh County Annex**

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

## **Primary:**

Brian Carl Township Administrator 2175 Seipstown Road, Fogelsville, PA 18051 610-285-6660 brian@weisenbergtownship.org

### Alternate:

Frank Bartholomew
Emergency Management Coordinator
2175 Seipstown Road, Fogelsville, PA 18051
610-285-6660
fbartholomew@weisenbergfire.com

## **Municipal Profile**

Lowhill Township is a suburban township in the central part of Lehigh County covering 14 square miles, with an estimated population of 2,173 (2010 Census). The Township is bordered by; North Whitehall Township to the east; Heidelberg Township to the north; Lynn Township to the northwest; Weisenberg Township to the southwest; Upper Macungie Township to the south; and South Whitehall Township to the southeast. The villages of Lowhill include Clauseville, Leather Corner Post, Lowhill, Lyon Valley, and Weidasville.

Lowhill Township is drained by the Jordan Creek, which flows west to east and into the Lehigh River.

State Route 100 cross through Lowhill Township from north to south, and is the main transportation route to access Route 22 and Interstate 78, south of the Township, connecting east towards Allentown and / or points north and south along Highway 476. Major east-west roads through the township include Clauseville Road / SR 4003 and Kernsville Road, which also connect east through North Whitehall Township towards Allentown.

## **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.

Joe Kalusky, Road master Brian Carl, Administrator

Role: Public Works Role: coordinating, emergency response, pre-planning, hazard identification

Chris Noll, Engineer Frank Bartholomew, Emergency Management Coordinator

Role: Floodplain data

Role: coordinating, emergency response, pre-planning, hazard identification

## Municipal Participation – continued

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.

**Evacuation Points and Public Education** 

Lowhill & Morganland Church

Northwestern School District

CLIU School

New Tripoli Bank

Creative Kids Daycare

**Emergency Response** 

Fogelsville, New Tripoli, Tri-Clover, Schnecksville and Germansville Fire Departments

Cetronia and NOVA EMS

Pennsylvania State Police

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

Newsletters

Website

Information posted at public places

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

| Tomphanos with the Hatierian Floor modification Flogram (in in )   |   |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|
| 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   | Yes  |  |  |  |  |  |  |  |  |
| Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability) | Community FPA   | Application and plot plans are reviewed against FEMA |  |  |  |  |  |  |  |  |
| What are the barriers to running an effective NFIP program in the community, if any?   | Community FPA   | N/A  |  |  |  |  |  |  |  |  |

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

| Topic   | Identify source of information, if different from the one listed.     | Additional Comments                                  |  |
|---|---|--|--|
| 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)?   |   | I just called FEMA to discuss required info.         |  |
| Is a CAV or CAC scheduled or needed?  |   | No   |  |
| 3. Regulation   |   |  |  |
| When did the community enter the NFIP?  | NFIP Community Status Book  | 10/15/1985   |  |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?  | Community FPA   | Paper / Online                                       |  |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?   | Community FPA   | Meet, based on ordinance requirements and amendments |  |
| Describe the permitting process   | Community FPA, State, FEMA NFIP                                       | Permit applied for – maps checked                    |  |
| 4. Insurance Summary  |   |  |  |
| How many NFIP policies are in the community? What is the total premium and coverage?  | State NFIP Coordinator or FEMA NFIP Specialist                        | ?  |  |
| How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been? | FEMA NFIP or Insurance Specialist                                     | ?  |  |
| How many structures are exposed to flood risk within the community?   | Community FPA or GIS Analyst  | Info unavailable                                     |  |
| Describe any areas of flood risk with limited NFIP policy coverage  | Community FPA or FEMA Insurance Specialist                            | Info unavailable                                     |  |
| 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.

Carbon Lehigh Intermediate Unit School

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

Students – Carbon Lehigh Intermediate Unit State Game Lands and KOA Campgroup - recreational

### 2. Economy

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

School New Tripoli Bank Farms throughout township

### 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.

Hassen Creek Mill Creek Jordan Creek Switzer Creek

Misc. unnamed waters & wetlands

#### 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.

We get limited flooding along Jordan

## **Community Assets – continued**

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

Rt. 100

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

Sharp Propane

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

Creative Kids Daycare

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

**Capability Assessment** 

|            |  | Status   |                                  |                      |                                       | Effect on   |  | Has the 2013  | How can   |                        |  |
|------------|--|----------|----------------------------------|----------------------|---------------------------------------|---|--|---|---|------------------------|--|
| Capability | ✓ Regulatory<br>✓ Tools<br>✓ Programs                      | In Place | Date<br>Adopted<br>or<br>Updated | Under<br>Development | Department /<br>Agency<br>Responsible | Hazard Loss<br>Reduction:<br>- <u>S</u> upports<br>- <u>N</u> eutral<br>- <u>H</u> inders | Change since<br>2013 Plan?<br>+ Positive<br>- Negative | Plan been integrated into the Regulatory Tool/Program ? If so, how? | these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |  |
|            | Comprehensive Plan   | X        | 1/6/2005                         |                      | Township<br>Administrator             |   | +  |   |   |                        |  |
| Regulatory | Capital Improvement Plan                                   | Χ        |                                  |                      | Township<br>Administrator             |   | +  |   |   |                        |  |
| l ji       | Economic Development Plan                                  |          |                                  |                      |                                       |   |  |   |   |                        |  |
| Rec        | Continuity of Operations Plan                              |          |                                  |                      |                                       |   |  |   |   |                        |  |
| ∘ఠ         | Stormwater Management Plan / Ordinance                     | X        | 4/5/2007                         |                      | Township<br>Administrator             |   | +  |   |   |                        |  |
| Planning   | Open Space Management Plan (or Parks/Rec., Greenways Plan) | X        | 7/2/2009                         |                      | Township<br>Administrator             |   | +  |   |   |                        |  |
|            | Natural Resource Protection Plan                           | _        |                                  |                      |                                       |   |  |   |   |                        |  |
| _          | Transportation Plan  |          | _                                |                      |                                       |   |  |   |   |                        |  |
|            | Historic Preservation Plan                                 |          |                                  |                      |                                       |   |  |   |   |                        |  |

Capability Assessment - continued

|            |                                 |          | Status                           |                      |                                       | Effect on   |  | Has the 2013  | How can   |                        |  |
|------------|---------------------------------|----------|----------------------------------|----------------------|---------------------------------------|---|--|---|---|------------------------|--|
| Capability | ✓ Regulatory ✓ Tools ✓ Programs | In Place | Date<br>Adopted<br>or<br>Updated | Under<br>Development | Department /<br>Agency<br>Responsible | Hazard Loss<br>Reduction:<br>- <u>S</u> upports<br>- <u>N</u> eutral<br>- <u>H</u> inders | Change since<br>2013 Plan?<br>+ Positive<br>- Negative | Plan been integrated into the Regulatory Tool/Program ? If so, how? | these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |  |
|            | Floodplain Management Plan      | Χ        |                                  |                      | Administration                        |   |  |   |   |                        |  |
|            | Farmland Preservation           | Χ        |                                  |                      | County                                |   |  |   |   | Lehigh County          |  |
| ory        | Evacuation Plan                 |          |                                  |                      |                                       |   |  |   |   |                        |  |
| ulatory    | Disaster Recovery Plan          |          |                                  |                      |                                       |   |  |   |   |                        |  |
| Regu       | Hazard Mitigation Plan          | Χ        | 8/1/13                           |                      | Administration                        |   |  | N/A   |   |                        |  |
| <u>∞</u>   | Emergency Operations Plan       | Χ        | 10/1/15                          |                      | Administration                        |   |  |   |   |                        |  |
|            | Zoning Regulations              | Χ        | 5/4/17                           |                      | Administration                        |   |  |   |   |                        |  |
| Planning   | Floodplain Regulations          | Χ        | 2/9/77                           |                      | Administration                        |   |  |   |   |                        |  |
| lar        | NFIP Participation              | Χ        | 10/15/85                         |                      | Administration                        |   |  |   |   |                        |  |
| <u>-</u>   | Building Code                   | Χ        | 11/15/01                         |                      | Administration                        |   |  |   |   |                        |  |
|            | Fire Code                       |          |                                  |                      |                                       |   |  |   |   |                        |  |
|            | Other                           |          |                                  |                      |                                       |   |  |   |   |                        |  |

Capability Assessment – continued

| Capability     | ✓ Staff ✓ Personnel ✓ Resources   | Yes | No | Department / Agency  | Change since<br>2013 Plan?<br>+ Positive<br>- Negative | How can these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |
|----------------|---|-----|----|----------------------|--|---|------------------------|
|                | Planners (with land use / land development knowledge)   |     |    |                      |  |   |                        |
| ology          | Planners or engineers (with natural and / or human-caused hazards knowledge)  |     |    |                      |  |   |                        |
| echn           | Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | Χ   |    | Admin                |  |   |                        |
| <u>⊢</u><br>∞ŏ | Emergency Manager   | X   |    | Admin                |  |   |                        |
| _              | Floodplain administrator / manager  |     |    |                      |  |   |                        |
| ati            | Land surveyors  | Χ   |    | Admin                |  |   |                        |
| istr           | Staff familiar with the hazards of the community  | Χ   |    | Admin / Public Works |  |   |                        |
| dministrative  | Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program                                     |     |    | Admin                |  |   |                        |
| 2.<br>A        | Grant writers or fiscal staff to handle large / complex grants  | Χ   |    | Admin                |  |   |                        |
| .,             | Other   |     |    |                      |  |   |                        |

| Capability |   | Yes | No | Department /<br>Agency | Change since<br>2013 Plan?<br>+ Positive<br>- Negative | How can these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |
|------------|---|-----|----|------------------------|--|---|------------------------|
|            | Capital improvement programming                         |     | Χ  |                        |  |   |                        |
| es         | Community Development Block Grants (CDBG)               |     | Χ  |                        |  |   |                        |
| onrc       | Special purposes taxes                                  |     | Χ  |                        |  |   |                        |
| S          | Gas / Electricity utility fees                          |     | Χ  |                        |  |   |                        |
| Re         | Water / Sewer fees                                      |     | Χ  |                        |  |   |                        |
| cial       | Stormwater utility fees                                 |     | Χ  |                        |  |   |                        |
| Finand     | Development impact fees                                 |     | Χ  |                        |  |   |                        |
| Fin        | General obligation, revenue, and / or special tax bonds |     | Χ  |                        |  |   |                        |
| က်         | Partnering arrangements or intergovernmental agreements | Χ   |    |                        |  |   |                        |
|            | Other   |     |    |                        |  |   |                        |

Capability Assessment – continued

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

| Capability |                              | Degree of Capability |          |      | Change since the 2013 Hazard<br>Mitigation Plan? | Additional Comments |
|------------|------------------------------|----------------------|----------|------|--|---------------------|
| Capa       |                              | Limited              | Moderate | High | If so, how?                                      | Additional Comments |
|            | Planning and Regulatory      |                      |          | Х    | No   |                     |
| Self –     | Administrative and Technical |                      |          | X    | No   |                     |
| 5. Sel     | Financial                    |                      |          | Х    | No   |                     |
| Ä          | Education and Outreach       |                      | Х        |      | No   |                     |

**Known or Anticipated Future Development / Redevelopment** 

| Development / Property Name | Type of Development | Number of Structures | Location | Known Hazard Zone | Description / Status |
|-----------------------------|---------------------|----------------------|----------|-------------------|----------------------|
| None                        |                     |                      |          |                   |                      |

Natural & Non-Natural Event History Specific to Lowhill Township

|   | j opcome to be in                  |  |
|---|------------------------------------|--|
| Type of Event and Date(s)               | FEMA Disaster #<br>(if applicable) | Local Damage(s) or Loss(es)                                |
| Winter Storm Jonas – 1/2016 DR-4267-PA  |                                    | Heavy snow and drifting                                    |
| Pennsylvania COVID-19 Pandemic – 1/2020 | DR-4506-PA                         | Emergency Protective measures to combat COVID-19 Pandemic. |

**2013 Municipal Action Plan Status** 

|   | 2010 Manicipal Action Flan Glatus   |                          |             | Status     |           |              |                     |
|---|---|--------------------------|-------------|------------|-----------|--------------|---------------------|
|   | Existing Mitigation Action (from 2013 Hazard Mitigation Plan)   | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments |
| 1 | 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.   | ×                        |             |            |           |              |                     |
| 2 | 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                        |             |            |           |              |                     |
| 3 | Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.  Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.  |                          | Х           |            |           |              |                     |
| 4 | 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: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation.  Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures.  Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. |                          | X           |            |           |              |                     |
| 5 | Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).   |                          | Χ           |            |           |              |                     |

# 2013 Municipal Action Plan Status - continued

|    |  |                          |             | Status     | 3         |              |                     |
|----|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|    | Existing Mitigation Action<br>(from 2013 Hazard Mitigation Plan)   | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments |
| 6  | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.   |                          | Χ           |            |           |              |                     |
| 7  | 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           |            |           |              |                     |
| 8  | 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           |            |           |              |                     |
| 9  | Archive elevation certificates   |                          | X           |            |           |              |                     |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0  |                          | Χ           |            |           |              |                     |
| 11 | Complete the ongoing updates of the Comprehensive Emergency Management Plans   |                          | Χ           |            |           |              |                     |
| 12 | Create/enhance/ maintain mutual aid agreements with neighboring communities for continuity of operations.  |                          |             | Χ          |           |              |                     |
| 13 | 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  |                          |             | Х          |           |              |                     |
| 14 | Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).   |                          |             | X          |           |              |                     |

#### Notes:

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

2018 Mitigation Action Plan

| Mitigation Action  | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed | Priority<br>(H / M / L) | Estimated<br>Cost | Potential<br>Funding   | Lead Agency<br>/ Department  | Implementation<br>Schedule               | Applies to<br>New and / or<br>Existing<br>Structures |
|--|-------------------------------------|------------------------|-------------------------|-------------------|--|--|--|--|
| Retrofit structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.             | Structure & Infrastructure          | Flood                  | Medium                  | High              | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA | Long-term<br>(depending<br>upon funding) | Existing   |
| 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. | Structure & Infrastructure          | Flood                  | Medium                  | High              | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA | Long-term<br>(depending<br>upon funding) | Existing   |

|   | Mitigation Action   | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed | Priority<br>(H / M / L) | Estimated<br>Cost | Potential<br>Funding | Lead Agency<br>/ Department  | Implementation<br>Schedule | Applies to<br>New and / or<br>Existing<br>Structures |
|---|---|-------------------------------------|------------------------|-------------------------|-------------------|----------------------|--|----------------------------|--|
| 3 | Maintain compliance with and good standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.  Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified below. | Local plans<br>&<br>Regulations     | Flood                  | High                    | Low               | Municipal<br>Budget  | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA | Ongoing                    | New &<br>Existing                                    |

|   | Mitigation Action   | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed | Priority<br>(H / M / L) | Estimated<br>Cost | Potential<br>Funding | Lead Agency<br>/ Department  | Implementation<br>Schedule | Applies to<br>New and / or<br>Existing<br>Structures |
|---|---|-------------------------------------|------------------------|-------------------------|-------------------|----------------------|--|----------------------------|--|
| 4 | 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:  Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures.  Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. | Education<br>& Awareness            | All Hazards            | High                    | Low-<br>Medium    | Municipal<br>Budget  | Municipality<br>with support<br>from Planning<br>Partners,<br>PEMA, FEMA             | Short-term                 | N/A  |
| 5 | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).   | Local plans<br>&<br>Regulations     | Flood                  | High                    | Low               | Municipal<br>Budget  | (Via Mun.<br>Engineer/NFIP<br>Floodplain<br>Admin.) w/<br>support from<br>PEMA, FEMA | Short-term                 | New &<br>Existing                                    |

|    | Mitigation Action  | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed | Priority<br>(H / M / L) | Estimated<br>Cost                       | Potential<br>Funding   | Lead Agency<br>/ Department   | Implementation<br>Schedule                | Applies to<br>New and / or<br>Existing<br>Structures |
|----|--|-------------------------------------|------------------------|-------------------------|---|--|---|---|--|
| 6  | Determine if a Community Assistance<br>Visit (CAV) or Community Assistance<br>Contact (CAC) is needed, and<br>schedule if needed.  | Local plans<br>&<br>Regulations     | Flood                  | Medium                  | Low                                     | Municipal<br>Budget  | NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA  | Short-term                                | N/A  |
| 7  | 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<br>&<br>Regulations     | Flood                  | High                    | Low                                     | Municipal<br>Budget  | NFIP<br>Floodplain<br>Administrator   | Short-term<br>(depending<br>upon funding) | N/A  |
| 8  | 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<br>&<br>Regulations     | Flood                  | Medium                  | Low                                     | Municipal<br>Budget  | NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA  | Short-term                                | N/A  |
| 9  | Obtain and archive elevation certificates for NFIP compliance.   | Local plans<br>&<br>Regulations     | Flood                  | High                    | Low                                     | Municipal<br>Budget  | NFIP<br>Floodplain<br>Administrator   | Ongoing                                   | N/A  |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0  | All<br>Categories                   | All Hazards            | High                    | Low –<br>High (for<br>5-year<br>update) | Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update | (via mitigation<br>planning<br>Poc's) w/<br>support from<br>Planning<br>Partners<br>(through their<br>POC),PEMA | Ongoing                                   | New &<br>Existing                                    |

|    | Mitigation Action  | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed                   | Priority<br>(H / M / L) | Estimated<br>Cost | Potential<br>Funding                                  | Lead Agency<br>/ Department  | Implementation<br>Schedule                | Applies to<br>New and / or<br>Existing<br>Structures |
|----|--|-------------------------------------|--|-------------------------|-------------------|---|--|---|--|
| 11 | Complete the ongoing updates of the<br>Comprehensive Emergency<br>Management Plans   | Local plans<br>&<br>Regulations     | All Hazards                              | High                    | Low               | Local<br>Budget                                       | Municipality<br>with support<br>from PEMA                            | Ongoing                                   | New &<br>Existing                                    |
| 12 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.   | All<br>Categories                   | All Hazards                              | High                    | Low               | Local<br>Budget                                       | Municipality with support from surrounding municipalities and County | Ongoing                                   | New &<br>Existing                                    |
| 13 | 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<br>& Awareness            | All Hazards                              | Medium                  | Medium            | Municipal<br>budget                                   | Municipality<br>with support<br>from County,<br>PEMA,<br>FEMA        | Short-term                                | N/A  |
| 14 | 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<br>& Awareness            | All Hazards                              | Medium                  | Medium            | Municipal<br>budget,<br>FEMA<br>HMA grant<br>programs | Municipality<br>with support<br>from County,<br>PEMA                 | Short-term<br>(depending<br>upon funding) | N/A  |
| 15 | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.   | Local plans<br>&<br>Regulations     | Pandemic<br>and<br>Infectious<br>Disease | Low                     | Unknown           | Municipal<br>Budget                                   | County EMA   | Unknown at this time                      | N/A  |
| 16 | Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected.  | Local plans<br>&<br>Regulations     | Pandemic<br>and<br>Infectious<br>Disease | Low                     | Unknown           | Municipal<br>Budget                                   | County EMA   | Unknown at this time                      | N/A  |

| Mitigation Action   | Mitigation<br>Technique<br>Category | Hazard(s)<br>Addressed | Priority<br>(H / M / L) | Estimated<br>Cost    | Potential<br>Funding | Lead Agency<br>/ Department | Implementation<br>Schedule | Applies to New and / or Existing Structures |
|---|-------------------------------------|------------------------|-------------------------|----------------------|----------------------|-----------------------------|----------------------------|---|
| Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. | Education & Awareness               | Invasive<br>Species    | Medium                  | Unknown at this time | Municipal<br>Budget  | Agriculture<br>Department   | 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 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