### South Whitehall, Lehigh County Annex

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

#### **Primary:**

Thomas Petrucci Township Manager 4444 Walbert Avenue, Allentown, PA 18104 610-398-0401 petruccit@southwhitehall.com

#### **Alternate:**

John G. Frantz Fire Marshal 4444 Walbert Avenue, Allentown, PA 610-398-0401 frantzj@southwhitehall.com

### **Municipal Profile**

South Whitehall is a suburban township located in Lehigh County. It covers a land area of 17.2 square miles and has a population of 21,080 (2020 Census). The township is bordered by North Whitehall Township to the north; Whitehall Township to the northeast; Allentown to the east and southeast; Salisbury Township and Lower Macungie Township to the south; and Upper Macungie Township to the west.

South Whitehall Township is drained by Cedar Creek, running east through the southern part of the township, and by Jordan Creek, flowing east from the northwest corner of the township to the eastern border into Whitehall Township. Both of these creeks empty into the Lehigh River.

South Whitehall is home to the Lehigh Valley Interchange of Interstate 476 and U.S. Route 22 in the western part of the township, and to the Northeast Extension of the PA Turnpike. Route 309 also travels north-south, paralleling Route 476 through the western part of the township, and crossing that same route midway through the area. Cedar Crest Boulevard (SR 1019) is a primary local arterial, running north-south in the eastern part of the township, and Mauch Chunk Road (SR 1017), which runs northwest-southeast from Allentown to the northern part of South Whitehall Township. Other significant local east-west thoroughfares are Walbert Avenue (SR 1006), north of US 22, and Tilghman Street (SR 1002) south of US 22. US Route 22 also cuts east-west through the southern-most section of the township, connecting Lower Macungie, South Whitehall, and Allentown. The township is also crossed southeast northwest by a section of the Norfolk Southern rail 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.

John G. Frantz, Fire Marshal Role: Coordinate information, EMA

Thomas Petrucci, Floodplain Administrator Role: Responsible for floodplain administration Jeff Kelly, Emergency Management Coordinator

Role: Responsible for Emergency Management (EMA) related activities

Ricardo Diaz, Fire Chief, Cetronia Fire Company

Role: Fire operations

The Pidcock Company, Township

Engineer

Role: Responsible for engineering

activities

Thomas Petrucci, Township Manager Role: Responsible for overall Township

operations

Dave Manhardt, Manager, Community

Development

Role: Responsible for planning

activities

Brian Neas, Chief, Tri-Clover Fire

Company

Role: Fire operations

Barry Search, Fire Chief, Woodlawn

Fire Department Role: Fire operations

Glen Dorney, Chief of Police

Role: Law Enforcement, Assist with EMA

activities

Andrew Garger, Fire Chief, Greenawalds

Fire Department

Role: Fire operations

Herb Bender, Director of Operations -

Public Works Department

Role: Responsible for water and sewer

systems

Robert Mateff, Chief Executive Officer,

Cetronia Ambulance Corps

Role: Emergency medical service

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.

Red Cross – Disaster Services

Lehigh Valley Health Network – Healthcare

St. Luke's Health Network – Healthcare

Parkland School District – school safety and transportation management

Cedar Fair (Dorney Park) – park safety and public vehicle access

Cedarbrook Nursing Home - health care

3. Describe how the public **will be engaged** in the current planning process (examples, newsletters, social media, etc.), **and how they have been engaged** since the 2018 Hazard Mitigation Plan.

Current: Emergency management and disaster preparedness/recovery information has been disseminated to the public at specifically planned public events. South Whitehall Township police disseminate information via Facebook and at planned public events.

Past: Same

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

| Topic  | Identify source of information, if different from the one listed. | Additional Comments |  |
|--|---|---------------------|--|
| 1. Staff Resources   |   |                     |  |
| Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified? | Community FPA   | No                  |  |
| Is floodplain management an auxiliary function?                                | Community FPA   | Yes                 |  |

# South Whitehall Township Annex Compliance with the National Flood Insurance Program (NFIP) - continued

| Topic  | Identify source of information, if different from the one listed.  | Additional Comments   |
|--|--|---|
| Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability) | Community FPA  | Permit Review, GIS, Education (through website and availability of resources), records, and archiving.  |
| What are the barriers to running an effective NFIP program in the community, if any?   | Community FPA  | N/A   |
| 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)?  |  | Community Assistance Visit on September 23 <sup>rd,</sup> 2014  |
| Is a CAV or CAC scheduled or needed?   |  | No  |
| 3. Regulation  |  |   |
| When did the community enter the NFIP?   | NFIP Community Status Book   | 5/19/1977   |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?   | Community FPA  | Both. Floodplain Coordinator is available for questions.  |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?  | Community FPA  | Exceeds. See information under this worksheet.  |
| Describe the permitting process  | Community FPA, State, FEMA NFIP                                    | Permit is received. Reviewed for completeness. Accepted. Reviewed by Floodplain Coordinator. Forwarded to Township Engineer for further review, if necessary. Approved or Denied, as applicable. Issued, if applicable. |
| 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                     | 51 policies. Total Premiums: \$74,999.00 Total Coverage: \$12,223,400.00  |
| 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<br>Insurance Specialist                               | Total Number of Closed Paid Losses: 46<br>Total Amount of Closed Paid Losses:<br>\$346,928.00<br>Total Substantial Damage Claims Paid: 3  |
| How many structures are exposed to flood risk within the community?  | Community FPA or GIS Analyst                                       | Estimated approximately 200 structures  |
| Describe any areas of flood risk with limited NFIP policy coverage   | Community FPA or<br>FEMA Insurance Specialist                      | King George Inn area  |

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

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

### **Community Assets**

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

#### 1. People

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

Cedarbrook County Home (Nursing Home)

Luthercrest Retirement Community (Nursing Home)

Lehigh Valley Health Network Tilghman (short-stay surgery)

Lehigh Valley Health Network (Coordinated Health) Allentown (short-stay surgery)

Fresenius Kidney Care Center (in-patient dialysis)

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

Jewish Day School

Datzyk Montessori School

St. Joseph the Worker School

Dorney Park and Wildwater Kingdom (Amusement Park)

Parkland School District – Parkland High School, Orefield Middle School, Springhouse Middle, Kratzer Elementary School, Cetronia Elementary School, Parkway Manor Elementary School, Parkland School District Stadium

#### 2. Economy

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

Dorney Park and Wildwater Kingdom

Nestle Purnia Pet Care

PPL Electric Utilities Lehigh Service Center

### **Community Assets - continued**

#### 3. Natural Environment

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

Protection of floodplain and floodway

#### 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.

Aqua Pennsylvania Water Facilities
PPL Electric Utilities Substation
Lehigh County Authority Water Facilities
Norfolk Southern – C&F Secondary
Cellular Towers (numerous)
PJM Interconnection – 500 KV Transmission Line
Pennsylvania Turnpike Commission – Northeast Extension / I476 Pennsylvania Department of Transportation – US Route 22
LANTA – Public Transportation
Buckeye Partners also Energy Partners – Pipelines (2)
South Whitehall Township Water Facilities – Storage \_ Water Tower,
Huckleberry Reservoir, Control – Auto Con Production Wells – K-Mart,
Luthercrest, Dorney, Cornerstone, Cedarbrook and others.
Booster/Chlorination – Springhouse West, Winchester Heights, Pheasant
Hill, Winchester West, and other locations.

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

> GEO Specialty Chemicals Nestle Purina Pet Care Ach Street Dam

### **Community Assets - continued**

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

Lehigh Valley Health Network Tilghman

Fresenius Kidney Care Center

St. Joseph the Worker School

Datzyk Montessori School

Lehigh Valley Health Network (Coordinated Health)

St. Luke's Health System

South Whitehall Township Police Department

Jewish Day School

Cetronia Fire Company, Greenawalds Fire Company,

Woodlawn Fire Department

Joint Operations Center – Cetronia Ambulance Corps/Lehigh County

Special Operations and Coroner/South Whitehall Township EOC

Parkland School District - Parkland High School, Orefield Middle School,

Springhouse Middle School, Kratzer Elementary School, Parkway Manor

Elementary School

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

Lehigh County Soccer Field

Parkland School District Stadium

Sieger's Covered Bridge

Peter Troxell House

Romig's Mill

Iron Bridge

Blumer House

South Whitehall Township Covered Bridge Park

Guth's Covered Bridge

**Dorney Crossroads Settlement** 

Lime Kilns (multiple)

Guth House

Daniel Troxell House and Blacksmith Shop

**Capability Assessment** 

|            | Cupusmiy /100000mon   |          | Status                           |                      |  | Effect on  |  | Has the 2018  | How can   |   |
|------------|---|----------|----------------------------------|----------------------|--|--|--|---|---|---|
| Capability | <ul><li>✓ Regulatory</li><li>✓ Tools</li><li>✓ Programs</li></ul> | 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>-Neutral<br>- <u>H</u> inders | Change since<br>2018 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  | Χ        | 3/15/23                          |                      | Township,<br>LVPC                                  | S  | Yes  |   |   |   |
|            | Capital Improvement Plan  |          |                                  |                      |  |  |  |   |   |   |
|            | Economic Development Plan   |          |                                  |                      |  |  |  |   |   |   |
| λ.         | Continuity of Operations Plan                                     | X        | 4/20/16                          |                      | Township   | S  | No   |   |   | Functional<br>checklist &<br>logistics<br>contained in<br>Emergency<br>Operations<br>Plan |
| Regulatory | Stormwater Management Plan / Ordinance                            | Χ        | 4/18/07                          |                      | Township   | S  | No   |   |   |   |
|            | Open Space Management Plan (or Parks/Rec., Greenways Plan)        | Χ        | 11/4/09                          |                      | Township   | S  | No   |   |   |   |
| ∞<br>5     | Natural Resource Protection Plan                                  |          |                                  |                      |  |  |  |   |   |   |
| nin (      | Transportation Plan   |          |                                  |                      |  |  |  |   |   |   |
| Planning   | Historic Preservation Plan  |          |                                  |                      |  |  |  |   |   |   |
| 1. P       | Floodplain Management Plan  | Χ        | 4/15/15                          |                      | Township<br>Community<br>Development<br>Department | S  |  |   |   |   |
|            | Farmland Preservation   |          |                                  |                      |  |  |  |   |   |   |
|            | Evacuation Plan   | Х        | 4/20/16                          |                      |  | S  |  |   |   | Site specific<br>plans listed in<br>Appendix C of<br>Emergency<br>Operations<br>Plan      |
|            | Disaster Recovery Plan  | Χ        | N/A                              |                      |  | S  |  |   |   |   |

|            |                                 |          | Status                           |                      |  | Effect on Hazard Loss                                       |  | Has the 2018  | How can   |   |
|------------|---------------------------------|----------|----------------------------------|----------------------|--|---|--|---|---|---|
| Capability | ✓ Regulatory ✓ Tools ✓ Programs | In Place | Date<br>Adopted<br>or<br>Updated | Under<br>Development | Department /<br>Agency<br>Responsible              | Reduction:  - <u>S</u> upports  -Neutral  - <u>H</u> inders | Change since<br>2018 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  |
|            | Hazard Mitigation Plan          | X        | 2021                             |                      | Township   | S   |  |   |   | Site specific emergency plan referenced in Emergency Operations Plan, floodplain regulations and zoning ordinance regulations |
|            | Emergency Operations Plan       | Χ        | 1/2023                           |                      | Township   | S   |  |   |   |   |
|            | Zoning Regulations              | Χ        | 9/1/20                           |                      | Township<br>Community<br>Development<br>Department | S   |  |   |   |   |
|            | Floodplain Regulations          | X        | 4/15/15                          |                      | Township<br>Community<br>Development<br>Department | S   |  |   |   |   |
|            | NFIP Participation              | ×        | 12/7/16                          |                      | Township   | S   |  |   |   | Date indicates Adoption of re- codified Township Ordinances. Floodplain Ordinance adopted 4/15/2015.                          |
|            | Building Code                   | Х        | 2/14/22                          |                      | Township<br>Community<br>Development<br>Department | S   |  |   |   | 2018 IBC/IRC  |

|            |   |          | Status                           |                      |  | Effect on  | 01   | Has the 2018  | How can   |                        |
|------------|---|----------|----------------------------------|----------------------|--|--|--|---|---|------------------------|
| Capability | <ul><li>✓ Regulatory</li><li>✓ Tools</li><li>✓ Programs</li></ul> | 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>-Neutral<br>- <u>H</u> inders | Change since<br>2018 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 |
|            | Fire Code   | X        | 11/16/22                         |                      | Township<br>Community<br>Development<br>Department | S  |  |   |   | 2018 IFC               |
|            | Other   | Х        | 6/15/22                          |                      | Township<br>Community<br>Development<br>Department |  |  |   |   | 2018 IPMC              |

| Capability   | ✓ Staff ✓ Personnel ✓ Resources                         | Yes | No | Department /<br>Agency   | Change since 2018 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |
|--------------|---|-----|----|--|---|---|------------------------|
|              | Capital improvement programming                         | Χ   |    | Township Staff   | No  |   |                        |
|              | Community Development Block Grants (CDBG)               | Χ   |    | Human Services.  | No  |   |                        |
|              | Special purposes taxes                                  | X   |    | Township<br>Finance<br>Department                                      | Yes   |   | Fire Service Tax       |
|              | Gas / Electricity utility fees                          |     | Χ  |  | No  |   |                        |
| seo          | Water / Sewer fees                                      | X   |    | Township<br>Finance<br>Department                                      | No  |   |                        |
| al Resources | Stormwater utility fees                                 | X   |    | Township<br>Community<br>Development<br>Department                     | No  |   |                        |
| Financial    | Development impact fees                                 | Х   |    | Township<br>Finance<br>Department                                      | No  |   |                        |
| 3.           | General obligation, revenue, and / or special tax bonds | Х   |    | Township<br>Finance<br>Department                                      | No  |   |                        |
|              | Partnering arrangements or intergovernmental agreements | X   |    | Township<br>Community<br>Development<br>Department/Polic<br>e and Fire | No  |   |                        |
|              | Other   |     |    |  |   |   |                        |

| Capability | ✓ Staff ✓ Personnel ✓ Resources   | Yes | No | Department /<br>Agency                                   | Change since 2018 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional<br>Comments |
|------------|---|-----|----|--|---|---|------------------------|
|            | Firewise Communities Certification  |     | Χ  |  |   |   |                        |
|            | StormReady Certification  | Х   |    | Lehigh County Emergency Management Agency                |   |   |                        |
|            | Natural disaster or safety-related school programs  | X   |    | Township   |   |   |                        |
| utreach    | Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.          | Х   |    | Township   |   |   |                        |
| ٥<br>«۵    | Public-private partnership initiatives addressing disaster related issues.  | X   |    | Township,<br>Parkland School<br>District, Dorney<br>Park |   |   |                        |
| Education  | Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. | Х   |    | Township   |   |   |                        |
| 4          | Other   |     |    |  |   |   |                        |
|            |   |     |    |  |   |   |                        |
|            |   |     |    |  |   |   |                        |
|            |   |     |    |  |   |   |                        |

| Capability            |                              | Deg     | ree of Capab | ility | Change since the 2018 Hazard Mitigation Plan? | Additional Comments |  |
|-----------------------|------------------------------|---------|--------------|-------|---|---------------------|--|
| Capa                  |                              | Limited | Moderate     | High  | If so, how?                                   | Additional comments |  |
| <b>+</b>              | Planning and Regulatory      |         |              | Х     |   |                     |  |
| 5. Self –<br>sessment | Administrative and Technical |         |              | X     |   |                     |  |
| 5. Sess               | Financial                    |         |              | X     |   |                     |  |
| Ä                     | Education and Outreach       |         |              | Χ     |   |                     |  |

# **Known or Anticipated Future Development / Redevelopment**

| Development /<br>Property Name                                | Type of Development                   | Number of Structures  | Location  | Known<br>Hazard<br>Zone | Description / Status  |
|---|---------------------------------------|---|---|-------------------------|---|
| Blue Barn Meadows<br>(2002-114)                               | Residential                           | 213 Townhomes   | 1400 Block of Blue<br>Barn Road   | Karst<br>Geology        | Under Construction  |
| Estates at Pheasant Hills II (2006-101)                       | Residential                           | 12 Singles  | Orefield Road at Ritter<br>Road   | Karst<br>Geology        | Under Construction  |
| Cedarpointe 1641 North<br>Cedar Crest Boulevard<br>(2007-101) | Commercial                            | Construct a four-story<br>91,200 ft <sup>2</sup> office building        | 1641 North Cedar<br>Crest Boulevard   | Karst<br>Geology        | Phase 1 (parking)<br>completed, Phase 2<br>(building) not started |
| The Hills at Winchester (2011-103)                            | Mixed-use –<br>Residential/Commercial | 43 singles, 118 over-<br>55 singles, 88 over-<br>55 twins, 1 restaurant | 3951 Walbert Avenue   | Karst<br>Geology        | Under Construction  |
| KRE/Springview (2012-<br>103)                                 | Mixed-use –<br>Residential/Commercial | 3 commercial pads, ten 45-<br>unit apartment buildings, 1<br>clubhouse  | 500 Block of Cetronia<br>Road   | Karst<br>Geology        | Under Construction  |
| Rhue Subdivision (2013-<br>201)                               | Residential                           | 4 singles   | 2400 Block of<br>Huckleberry Road   | Karst<br>Geology        | Under Review  |
| 30 West Twins (2015-103)                                      | Residential                           | 16 twins  | 3000 Block of<br>Washington Street  | Karst<br>Geology        | Under Construction  |
| Tilghman Square<br>Shopping Center<br>Improvements (2015-106  | Commercial                            | 1 commercial pad, 3 tenants   | 4600 Block of<br>Broadway   | Karst<br>Geology        | Complete  |
| Hotel Hamilton (2015-107)                                     | Commercial                            | 2 commercial pads, 1 hotel  | Northeast corner of<br>Hamilton Boulevard<br>and North Cedar<br>crest Boulevard | Karst<br>Geology        | Under Review  |
| Hamilton Animal Care<br>(2016-102)                            | Commercial                            | 1 commercial pad  | 4500 Block of Tilghman<br>Street  | Karst<br>Geology        | Under Construction  |

### Known or Anticipated Future Development / Redevelopment - continued

| Development / Property<br>Name                 | Type of Development                       | Number of<br>Structures  | Location   | Known Hazard<br>Zone | Description / Status             |
|--|---|--|--|----------------------|----------------------------------|
| St. George's Orthodox<br>Church (2016-<br>106) | Institutional                             | 6 new buildings  | Southwest corner of<br>Orefield Road and<br>North Cedar Crest<br>Boulevard | Karst Geology        | Under Review                     |
| Ridge Farm (2017-101)                          | Mixed-use –<br>residential/comme<br>rcial | 80 singles, 124 twins,<br>350 apartment units,<br>70 over-55 singles,<br>120 over-55 twins, 6<br>commercial<br>pads, 3<br>clubhouses | North Cedar Crest<br>Boulevard<br>and Walbert<br>Avenue                    | Karst Geology        | Under Review and<br>Construction |
| Dorney Park Project 2018<br>(2017-102)         | Commercial                                | Replacement of existing building   | 3830 Dorney Park<br>Road   | Karst Geology        | Under Construction               |

Natural & Non-Natural Event History Specific to South Whitehall Township

| Type of Event and Date(s)               | FEMA Disaster #<br>(if applicable) | Local Damage(s) or Loss(es)                                |
|---|------------------------------------|--|
| Winter Storm Stella – 3/2017            | N/A                                | N/A  |
| Winter Storm Jonas – 1/2016             | DR-4267-PA                         | Snowstorm  |
| Pennsylvania COVID-19 Pandemic – 1/2020 | DR-4506-PA                         | Emergency Protective measures to combat COVID-19 Pandemic. |
| Tropical Storm Isaias – 8/2020          | N/A                                | Flooding   |
| Tropical Storm Ida – 9/2021             | DR-4618                            | Flooding   |

**2018 Municipal Action Plan Status** 

|   | 2010 Mainorpal Action Flair C   |                          |             | Status     |           |              |  |
|---|---|--------------------------|-------------|------------|-----------|--------------|--|
|   | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)  | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments                            |
| 1 | Flooding Cedar Crest and Hamilton;<br>Major route to area Trauma Center LVHN.   | Х                        |             |            |           |              | Awaiting pending adjacent property development |
| 2 | Flood control - roadway flooding: Cedar<br>Crest Blvd (0-100) & Broadway Rd (3100-<br>3300)/  |                          |             |            | Х         |              | City of Allentown/PENNDOT                      |
| 3 | Roadway flooding: Glick Ave. and Birch Ave.   | Χ                        |             |            |           |              | Township Public Works                          |
| 4 | Storm drainage improvements:<br>Crackersport Rd. between Country Lane &<br>Bulldog Dr.  | Х                        |             |            |           |              | Township Public Works                          |
| 5 | Storm drainage improvements: Broadway Rd. and Schaeffer St.   |                          |             |            | Χ         |              | Township Public Works                          |
| 6 | Retrofit structures located in hazard prone areas to protect structures from future damage, with repetitive loss properties as priority.  Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability. | X                        |             |            |           |              |  |
| 7 | Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting.  | Х                        |             |            |           |              |  |

# 2018 Municipal Action Plan Status - continued

|   |  |                          |             | Status     |           |              |                     |
|---|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|   | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)   | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments |
|   | 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.  Maintain compliance with and good  |                          |             |            |           |              |                     |
| 8 | standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.  Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP related continued compliance actions identified below.  |                          |             | X          |           |              |                     |
| 9 | 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 |                          |             | X          |           |              |                     |

# 2018 Municipal Action Plan Status - continued

|    |  |                          |             | Status     |           |              |  |
|----|--|--------------------------|-------------|------------|-----------|--------------|--|
|    | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)   | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments  |
| 10 | 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.  Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. |                          |             | X          |           |              |  |
| 11 | Complete the ongoing updates of the Comprehensive Emergency Management Plans.  |                          |             | Х          |           |              |  |
| 12 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.   |                          |             | Х          |           |              |  |
| 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.  |                          |             | Х          |           |              | Through Lehigh County Emergency Management Agency and Local Emergency Management Agency                                |
| 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).   |                          |             | Х          |           |              | Through Lehigh County Emergency Management Agency and Local Emergency Management Agency. Continuing education programs |

# **2018 Municipal Action Plan Status -** *continued*

|    |  |                          |             | Status     |           |              |                     |
|----|--|--------------------------|-------------|------------|-----------|--------------|---------------------|
|    | Existing Mitigation Action<br>(from 2018 Hazard Mitigation Plan)   | No Progress /<br>Unknown | In Progress | Continuous | Completed | Discontinued | Additional Comments |
| 15 | Develop preparedness and response to active-aggressor incidents.   |                          |             | X          |           |              |                     |
| 16 | Address utility interruption of critical infrastructure. Provide permanent generators and portable generator connections at water stations.                                  |                          |             | X          |           |              |                     |
| 17 | Coordinate with and support the Lehigh County Emergency Management Agency and PA Department of Health for setting up points of distribution and providers for immunizations. |                          |             | X          |           |              |                     |
| 18 | Assist with dissemination of information concerning pandemic and infectious diseases.  |                          |             | X          |           |              |                     |
| 19 | Assist in dissemination of information to residents regarding how to prevent the spread of invasive species.   |                          |             | X          |           |              |                     |
| 20 | Maintain and enforce property maintenance ordinances regarding junk items that can serve as breeding areas for invasive insects.   |                          |             | X          |           |              |                     |
| 21 | Train and equip first responders with overdose-countering medication.  |                          |             | X          |           |              |                     |
| 22 | Continue DARE program in elementary and middle schools.  |                          |             | X          |           |              |                     |
| 23 | Continue support of intervention programs to address overdose reoccurrence.  |                          |             | X          |           |              |                     |
| 24 | Continue support of prescription take-back program.  |                          |             | 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<br>Technique<br>Category | Hazard(s)<br>Addresse<br>d   | Priority<br>(H / M /<br>L) | Estimate<br>d Cost | Potential<br>Funding  | Lead<br>Agency /<br>Department   | Implementatio<br>n Schedule            | Applies to<br>New and /<br>or<br>Existing<br>Structures |
|---|--|-------------------------------------|--|----------------------------|--------------------|---|--|--|---|
| 1 | Flooding Cedar Crest<br>and Hamilton.<br>Major route to area<br>Trauma Center LVHN   | Structure & Infrastructur e         | Flood  | High                       | High               |   | PENNDOT  |  | Existing  |
| 2 | Roadway flooding: Glick Ave. and Birch Ave.  | Structure & Infrastructur e         | Flood  | Medium                     | High               |   | Township<br>Public Works   | Depending on funding                   | Existing  |
| 3 | Storm drainage improvements: Crackersport Rd. between Country Lane & Bulldog Dr.   | Structure & Infrastructur e         | Flood  | Medium                     | High               |   | Township<br>Public Works   | Depending on funding                   | Existing  |
| 4 | Retrofit structures located in hazard prone areas to protect structures from future damage, with 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 & Infrastructur e         | Flood,<br>Windstorm<br>/<br>Tornado,<br>Winter<br>Storm,<br>Earthquak<br>e | Medium<br>- High           | High               | FEMA Mitigation Grant Program s and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFI P Floodplain Administrator ) with support from PEMA, FEMA | Long-term<br>(depending on<br>funding) | Existing  |

| Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with 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 &<br>Infrastructur<br>e | Flood   | Medium<br>- High | High            | FEMA Mitigation Grant Program s and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFI P Floodplain Administrator ) with support from PEMA, FEMA     | Long-term<br>(depending on<br>funding) | Existing          |
|---|-----------------------------------|---|------------------|-----------------|---|--|--|-------------------|
| 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             | Local plans<br>&<br>Regulations   | Flood,<br>Windstorm<br>/<br>Tornado,<br>Winter<br>Storm | High             | Low -<br>Medium | Local<br>Budget   | Municipality (via Municipal Engineer/NFI P Floodplain Administrator ) with support from PEMA, ISO FEMA | Ongoing                                | New &<br>Existing |

|   |  |                             |                |      |                | 1                   | <u> </u>   |            | I   |
|---|--|-----------------------------|----------------|------|----------------|---------------------|--|------------|-----|
|   | compliance actions   |                             |                |      |                |                     |  |            |     |
|   | identified below.  |                             |                |      |                |                     |  |            |     |
| 7 | 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 | Education<br>&<br>Awareness | All<br>Hazards | High | Low-<br>Medium | Municipal<br>Budget | Municipality<br>with support<br>from<br>Planning<br>Partners,<br>PEMA,<br>FEMA | Short-term | N/A |

|    | neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.                              |                                 |                |        |   |  |  |            |                   |
|----|---|---------------------------------|----------------|--------|---|--|--|------------|-------------------|
| 8  | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0   | All<br>Categories               | All<br>Hazards | High   | Low –<br>High (for<br>5-year<br>update) | Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update | Municipality (via mitigation planning point of contacts) with support from Planning Partners (Through their Points of Contact), PEMA | Ongoing    | New &<br>Existing |
| 9  | Complete the ongoing updates of the Comprehensive Emergency Management Plans  | Local plans<br>&<br>Regulations | All<br>Hazards | High   | Low                                     | Local<br>Budget  | Municipality<br>with support<br>from PEMA  | Ongoing    | New &<br>Existing |
| 10 | Create/enhance/maintai<br>n mutual aid<br>agreements with<br>neighboring<br>communities for<br>continuity of operations.  | All<br>Categories               | All<br>Hazards | High   | Low                                     | Local<br>Budget  | Municipality with support from surrounding municipalities and County   | Ongoing    | New &<br>Existing |
| 11 | Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; | Education<br>&<br>Awareness     | All<br>Hazards | Medium | Medium                                  | Local<br>budget  | Municipality<br>with support<br>from County,<br>PEMA,<br>FEMA  | Short-term | N/A               |

|    | FEMA/PEMA  |                                 |  |        |        |   |  |  |          |
|----|--|---------------------------------|--|--------|--------|---|--|--|----------|
|    | paperwork compilation, submissions, record   |                                 |  |        |        |   |  |  |          |
|    | keeping.   |                                 |  |        |        |   |  |  |          |
| 12 | 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>&<br>Awareness     | All<br>Hazards   | Medium | Medium | Local<br>budget,<br>FEMA<br>HMA<br>grant<br>programs      | Municipality<br>with support<br>from County,<br>PEMA                             | Short-, long-<br>term<br>(depending on<br>funding) | N/A      |
| 13 | Develop preparedness<br>and response to active-<br>aggressor incidents   | Local plans<br>&<br>Regulations | Mass Gathering / Civil Disturbanc e                            | High   | High   | Federal<br>and<br>State<br>grants,<br>Municipal<br>budget | Township<br>and<br>Lehigh<br>County<br>Emergency<br>Management                   | Immediate/<br>ongoing                              | N/A      |
| 14 | and portable generator connections at water stations.  | Structure & Infrastructur e     | Multiple<br>Natural<br>Hazards;<br>Utility<br>Interruptio<br>n | High   | High   | Municipal<br>Budget                                       | Township   | Immediate/<br>ongoing                              | Existing |
| 15 | Coordinate with and support the Lehigh County Emergency Management Agency and PA Department of Health for setting up points of distribution and providers for immunizations.   | Local plans<br>&<br>Regulations | Pandemic<br>and<br>Infectious<br>Disease                       | Medium | Low    | Municipal<br>Budget                                       | Municipality,<br>working with<br>County EMA<br>and PA<br>Department<br>of Health | Ongoing  | N/A      |
| 16 | Assist with dissemination of information concerning  | Education<br>&<br>Awareness     | Pandemic<br>and<br>Infectious<br>Disease                       | Medium | Low    | Municipal<br>Budget                                       | Municipality   | Ongoing  | N/A      |

|    | pandemic and infectious diseases.  |                                 |                            |      |      |   |  |  |          |
|----|--|---------------------------------|----------------------------|------|------|---|--|--|----------|
| 17 | Assist in dissemination of information to residents regarding how to prevent the spread of invasive species.                                 | Education & Awareness           | Invasive<br>Species        | High | Low  | Municipal<br>Budget   | Municipality   | Ongoing                                | N/A      |
| 18 | Maintain and enforce property maintenance ordinances regarding junk items that can serve as breeding areas for invasive insects.             | Education<br>&<br>Awareness     | Invasive<br>Species        | High | Low  | Municipal<br>Budget   | Municipality   | Short-term                             | N/A      |
| 19 | Train and equip first responders with overdose-countering medication.  | Local plans<br>&<br>Regulations | Drug<br>Overdose<br>Crisis | High | Low  | Municipal<br>Budget   | Municipality   | Ongoing                                | N/A      |
| 20 | Continue DARE program in elementary and middle schools.  | Education & Awareness           | Drug<br>Overdose<br>Crisis | High | Low  | Municipal<br>Budget   | Municipality   | Ongoing                                | N/A      |
| 21 | Continue support of intervention programs to address overdose reoccurrence.  | Education & Awareness           | Drug<br>Overdose<br>Crisis | High | Low  | Municipal<br>Budget   | Municipality   | Ongoing                                | N/A      |
| 22 | Continue support of prescription take-back program.  | Education &<br>Awareness        | Drug<br>Overdose<br>Crisis | High | Low  | Municipal<br>Budget   | Municipality   | Ongoing                                | N/A      |
| 23 | Storm drainage improvements, Winchester Road area east of Manchester Road including neighborhood between Leicester Place and N. 33rd Street. | Structure & Infrastructur e     | Flood                      | High | High | FEMA Mitigation Grant Program s and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFI P Floodplain Administrator ) with support from PEMA, FEMA | Long-term<br>(depending on<br>funding) | Existing |

#### Notes:

#### **Estimated Costs:**

- Where actual project costs have been reasonable estimated: Low = < \$10,000; Medium = \$10,000 to \$100,000; High = > \$100,000;
- Where actual project costs cannot reasonably be established at this time:
  - **Low** = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
  - **Medium** = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
  - **High** = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

#### Potential Funding (FEMA HMA):

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

#### Implementation Schedule:

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

#### Applies to New and/or Existing Structures:

- **N/A** = Not Applicable

South Whitehall Township Annex