

Lower Milford Township, Lehigh County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Alternate:

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Municipal Profile

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

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

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

Municipal Participation

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

Emily Fucci, Township Administrator
Role: Planning / Advisory

John Hagan, Public Works Foreman
Role: Planning

Ellen Koplin, Supervisor Chair
Role: Planning

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.

Lower Milford Residents Association

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.

Website
Newsletters

Facebook
Township meetings

Compliance with the National Flood Insurance Program (NFIP)

Topic	Identify source of information, if different from the one listed.	Additional Comments
1. Staff Resources		
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	No
Is floodplain management an auxiliary function?	Community FPA	
Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability)	Community FPA	The zoning ordinance prohibits new structures within the floodplain.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Yes
Are there any outstanding compliance issues (i.e., current violations)?		No
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		?
Is a CAV or CAC scheduled or needed?		?
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	Unknown
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Paper-overlay on zoning map
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	County GIS prohibits structures
Describe the permitting process	Community FPA, State, FEMA NFIP	Driveways, etc. are reviewed by the zoning hearing board

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

Topic	Identify source of information, if different from the one listed.	Additional Comments
4. Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	Unknown
How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been?	FEMA NFIP or Insurance Specialist	Unknown
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	Approx. 100
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	
5. Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov)	N/A
What categories and activities provide CRS points and how can the Class be improved?		N/A
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A

Community Assets

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

1. People

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

Village of Limeport

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

N/A

Community Assets – *continued*

2. Economy

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

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.

Lower Milford Marsh
Hosensack Marsh

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.

Village of Limeport

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

Limeport Wastewater Treatment Facility

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

Powder Valley Dam
PPL / First Energy Switch yard

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

Lower Milford Fire Co. Township building	Former Lower Milford Elementary School (shelter)
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- Cultural / historical resources such as, museums, parks, stadiums, etc.

Limeport Stadium

Capability Assessment

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: - Supports - Neutral - Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Comprehensive Plan	X	2005		Planning Commission	support	positive	No	Funding	revised 2017- 12/17
	Capital Improvement Plan			X	Board of Supervisors	neutral	none	No	Funding	
	Economic Development Plan									
	Continuity of Operations Plan			X	Emergency management			No		
	Stormwater Management Plan / Ordinance	X	act 167		Planning Commission			No		Saucon and Perkiomen creeks
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X			Planning Commission			No		
	Natural Resource Protection Plan	X	zoning ordinance 2009		Zoning Board	supports		No		
	Transportation Plan		part of comp plan					No		
	Historic Preservation Plan	X	zoning ordinance 2009		Zoning Board and Historical Committee			No		
	Floodplain Management Plan	X	2000 & 2009					No		
	Farmland Preservation		comp plan					No		
	Evacuation Plan							No		
	Disaster Recovery Plan							No		

Capability Assessment – continued

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: - Supports - Neutral - Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Hazard Mitigation Plan							No		
	Emergency Operations Plan	X	2012					No		
	Zoning Regulations	X	2009					No		
	Floodplain Regulations		zoning ordinance					No		
	NFIP Participation	X						No		
	Building Code	X	2004					No		
	Fire Code		building code					No		
	Other							No		

Capability Assessment – continued

Capability	✓ Staff ✓ Personnel ✓ Resources	Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
2. Administrative & Technology	Planners (with land use / land development knowledge)	X		Administration and Zoning			
	Planners or engineers (with natural and / or human-caused hazards knowledge)	X		Administration and Township Engineer			
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	X		Building code Officials			
	Emergency Manager	X		Administration			
	Floodplain administrator / manager	X		Zoning			
	Land surveyors	X		Township Engineer			
	Staff familiar with the hazards of the community	X		Administration, Public Works, Emergency Manager			
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program	X		Township Engineer			
	Grant writers or fiscal staff to handle large / complex grants	X		Finance and Administration			
	Other						

Capability Assessment – continued

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

Capability Assessment – continued

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

Capability		Degree of Capability			Change since the 2013 Hazard Mitigation Plan? If so, how?	Additional Comments
		Limited	Moderate	High		
5. Self – Assessment	Planning and Regulatory	X				
	Administrative and Technical			X		
	Financial	X				
	Education and Outreach			X		

Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Unknown					

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

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

2018 Municipal Action Plan Status

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
1	Shultz Bridge Road Streambank Stabilization - Severe stream bank erosion, which could lead to undermining the roadway				X		Schultz Bridge Road Streambank stabilization. Action not carried through to 2018 Action Plan.
2	Replacement of culvert at the intersection of Limeport Pike and Dillingersville Road which leads to roadway flooding	X					Limeport Pike & Dillingersville culvert - PennDOT
3	Replacement of Culvert on Spinnerstown Road (between Plover Lane and Orchard Road) which leads to roadway flooding	X					Spinnerstown Rd culvert (Plover & Orchard) - PennDOT
4	Drainage System in the 3800 Block of Limeport Pike – Southbound: Roadway Flooding, Ponding during heavy rains, no drainage	X					3800 block Limeport Pk. Drainage system - PennDOT
5	Stormwater Facility in the area of Spinnerstown Road and School House Lane leading to roadway flooding	X					Spinnerstown & Schoolhouse stormwater facility - PennDOT
6	School House Lane/Spring Road – Roadway flooding Elevate Road, install drainage structure					X	Schoolhouse Ln & Spring Rd – flooding – Spring Road vacated and removed as public roadway – now private
7	West Mill Hill and Yeakel Roads– Roadway flooding Elevate Road, install drainage structure		X				West Mill Hill & Yeakel - flooding
8	Limeport Pike between Spring Road and Milky Way– Roadway flooding Elevate Road, install drainage structure	X					Limeport Pike flooding (Spring & Milky way) - PennDOT
9	Funds to maintain and purchase new equipment, which would be utilized to assist in emergency response			X			Funds for new equipment
10	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives 11 – 16 (below).			X			NFIP criteria

2018 Municipal Action Plan Status – continued

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
11	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effectively reduce risk to natural hazard: - Provide and maintain links to the HMP website, and regularly post notices municipal homepage(s) referencing the HMP webpages. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.			X			Community & public education
12	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).			X			Regulatory standards
13	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	X					CAV
14	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	X					NFIP Administrator
15	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	X					CRS
16	Archive elevation certificates			X			Archive certs
17	Continue to support the implementation, monitoring, maintenance, and updating of this , as defined in Section 7.0			X			Monitor
18	Complete the ongoing updates of the Comprehensive Emergency Management Plans			X			Emergency management Plan
19	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.			X			Mutual aid agreements

2018 Municipal Action Plan Status – continued

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
20	Identify and develop agreements with entities that can provide support with FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping			X			FEMA/PEMA paperwork
21	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).			X			regional agencies

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

2023 Mitigation Action Plan

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
1	Replacement of culvert at the intersection of Limeport Pike and Dillingersville Road which leads to roadway flooding	Structure & Infrastructure	Flood	Medium	High	Federal, State, County Funding	PennDOT	Short-term (depending on funding)	Existing
2	Replacement of Culvert on Spinnerstown Road (between Plover Lane and Orchard Road) which leads to roadway flooding	Structure & Infrastructure	Flood	Medium	High	Federal, State, County Funding	PennDOT	Short-term (depending on funding)	Existing
3	Drainage System in the 3800 Block of Limeport Pike – Southbound: Roadway Flooding, Ponding during heavy rains, no drainage	Structure & Infrastructure	Flood	Medium	Medium	Federal, State, County Funding	PennDOT	Short-term (depending on funding)	Existing
4	Stormwater Facility in the area of Spinnerstown Road & School House Lane leading to roadway flooding	Structure & Infrastructure	Flood	Medium	High	Federal, State, County Funding	PennDOT	Short-term (depending on funding)	Existing
5	School House Lane/Spring Road – Roadway flooding Elevate Road, install drainage structure	Structure & Infrastructure	Flood	High	High	HMGP	Public Works	Short-term (depending on funding)	Existing
6	West Mill Hill and Yeakel Roads– Roadway flooding Elevate Road, install drainage structure	Structure & Infrastructure	Flood	High	High	RFC Grant Program	Public Works	Short-term (depending on funding)	Existing
7	Limeport Pike between Spring Road and Milky Way– Roadway flooding Elevate Road, install drainage structure	Structure & Infrastructure	Flood	Medium	High	Federal, State, County Funding	PennDOT	Short-term (depending on funding)	Existing
8	Funds to maintain and purchase new equipment, which would be utilized to assist in emergency response	Structure & Infrastructure	All Hazards	Medium	Medium	FMA Grant Program	Municipal	Ongoing	New & Existing

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
9	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives 11 – 16 (below).	Local plans & Regulations	Flood	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO, FEMA	Ongoing	New & Existing
10	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effectively reduce risk to natural hazard: - Provide and maintain links to the HMP website, and regularly post notices municipal homepage(s) referencing the HMP webpages. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	Education & Awareness	All Hazards	High	Low-Medium	Municipal Budget	Municipality with support from Planning Partners, PEMA, FEMA	Short-term	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
11	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).	Local plans & Regulations	Flood; Subsidence/ Sinkholes	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA. LVPC for Carbonate Bedrock Standard model ordinance.	Short-term	New & Existing
12	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term	N/A
13	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	Local plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A
14	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
15	Obtain and archive elevation certificates for NFIP compliance.	Local plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	On-going	N/A
16	Continue to support the implementation, monitoring, maintenance, and updating of this, as defined in Section 7.0	All Categories	All Hazards	High	Low – High (for 5-year update)	Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Municipality (via mitigation planning p.o.c's) w/ support from Planning Partners (through their p.oc.'s), PEMA	On-going	New & Existing
17	Complete the ongoing updates of the Comprehensive Emergency Management Plans	Local plans & Regulations	All Hazards	High	Low	Municipal Budget	Municipality with support from PEMA	Ongoing	New & Existing
18	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.	All Categories	All Hazards	High	Low	Municipal Budget	Municipality w/ support from surrounding municipalities and County	Ongoing	New & Existing
19	Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping.	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality with support from County, PEMA, FEMA	Short-term	N/A
20	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Education & Awareness	All Hazards	Medium	Medium	Municipal budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-term (depending on funding)	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
21	Devise a public education and outreach plan regarding disease prevention.	Education & Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
22	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Ongoing	N/A
23	Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education & Awareness	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality/ School District	Ongoing	N/A

Notes:**Estimated Costs:**

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

Potential Funding (FEMA HMA):

- **BRIC** = Building Resilient Infrastructure 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